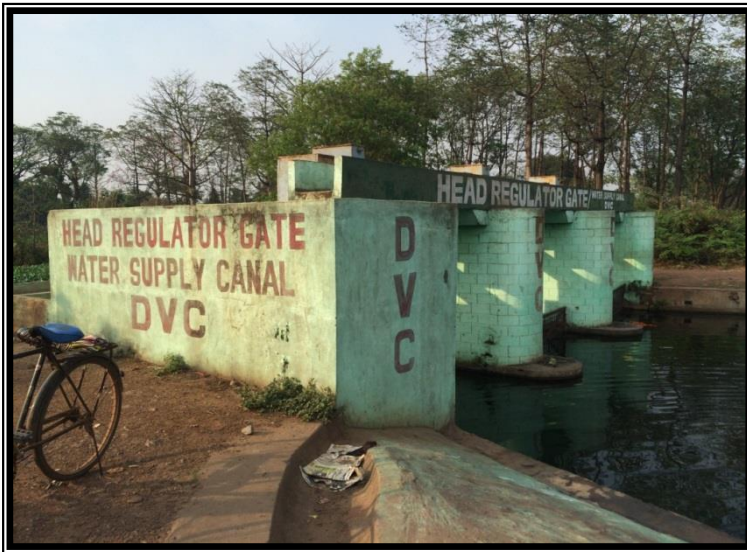


**Consultancy Services for preparation of Two Stage Detailed Project Report
(DPR) of National Waterway 34, Cluster-III: DVC Canal**

FINAL FEASIBILITY REPORT



Inland Waterway Authority of India

Cluster – III : DVC Canal

Final Feasibility Report

October 2016



Inland Waterway Authority of India

Cluster – III : DVC Canal

Final Feasibility Report

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Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

FINAL FEASIBILITY REPORT

Project IWAI Cluster-III, DVC Canal

Owner IWAI, Ministry of Shipping

Consultant Egis India Consulting Engineers

Authors			Project No: PT/EIPTIWB002		
Project Team : Team Leader + 7-Experts			Report No: PT/EIPTIWB002/2016/FR/002		
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Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

Terms of Reference Compliance Sheet

As per TOR, the Consultant has to prepare Feasibility Report for the National waterways based on the available data and reconnaissance survey. It must include the following prospects:

Sr. No.	Section – 6 Terms of Reference Clause No./Title	Covered under Chapter No./ Title
1.0	Clause -1.1.3 : Feasibility Report 1. Introductory considerations	Chapter 1: Context Chapter 2: Objective Chapter 3: Report Structure Chapter 4: Introductory Considerations
2.0	Clause -1.1.3 : Feasibility Report 2. Analysis of Present state of Affairs	Chapter 5: Collection and Review of available Data Chapter 6: Analysis of Present State of Affairs
3.0	Clause -1.1.3 : Feasibility Report 3. Market Analysis	Chapter 8: Market Analysis
4.0	Clause -1.1.3 : Feasibility Report 4. Reconnaissance Survey	Chapter 7: Reconnaissance Survey

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

SALIENT FEATURES

S. No.	Particulars	Details																														
1.	Name of Consultant	Egis India Consulting Engineers Pvt. Ltd.																														
2.	Cluster number	Cluster III																														
3.	Waterway stretch (from. To, total length)	DVC Canal (From Durgapur Barrage Lat 23°28'47.36"N, Lon 87°18'19.04"E to Confluence point of DVC canal with Hooghly river near Tribeni Lat 23° 0'30.95"N, Lon 88°24'54.72"E); Total Length: 136 Km																														
4.	Navigability status																															
a)	Tidal & non tidal portions (from ... to, length, average tidal variation)	Tidal portion: 130 – 136 Km Non-tidal: 0 – 130 Km Tidal variation: 1.2 m																														
b)	LAD status Survey period (.. to ..) < 1.0 m (Km) 1.m to 1.5 m (Km) 1.5 m to 2.0 m (Km) > 2.0 m (Km)	<table border="1"> <thead> <tr> <th></th> <th>0-85 Km</th> <th>85-130 Km</th> <th>130-136 Km</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Survey Period</td> <td colspan="3">5th Mar to 10th Mar 2016</td> <td></td> </tr> <tr> <td>< 1.0 m</td> <td>79.04</td> <td>43.37</td> <td>1.6</td> <td>124.01</td> </tr> <tr> <td>1.m to 1.5 m (Km)</td> <td>5.96</td> <td>1.63</td> <td>1.23</td> <td>8.82</td> </tr> <tr> <td>1.5 m to 2.0 m (Km)</td> <td>0</td> <td>0</td> <td>1.23</td> <td>1.23</td> </tr> <tr> <td>> 2.0 m (Km)</td> <td>0</td> <td>0</td> <td>1.93</td> <td>1.93</td> </tr> </tbody> </table>		0-85 Km	85-130 Km	130-136 Km	Total	Survey Period	5 th Mar to 10 th Mar 2016				< 1.0 m	79.04	43.37	1.6	124.01	1.m to 1.5 m (Km)	5.96	1.63	1.23	8.82	1.5 m to 2.0 m (Km)	0	0	1.23	1.23	> 2.0 m (Km)	0	0	1.93	1.93
	0-85 Km	85-130 Km	130-136 Km	Total																												
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1.5 m to 2.0 m (Km)	0	0	1.23	1.23																												
> 2.0 m (Km)	0	0	1.93	1.93																												
c)	Cross structures i) Dams, wires , barrages etc (number, with navigation locks or not).	i) Dams, Weirs, Barrages, Locks = 22 Barrages with Navigation Locks. ii) Bridges = 55 numbers, HC (25 m to 3 m), VC (12 m to 3 m) iii) Power Cable = 15 numbers (VC = 15.0 m)																														

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

S. No.	Particulars	Details
	ii) Bridges, Power cables etc [number, HC (... to ...). VC (.. to ..)]	
d)	Avg. discharge & no. of days	Canal design discharge = 260 cumecs
e)	Consultants inference	<ul style="list-style-type: none"> ➤ Considering, its link with the National Waterway-1 and 2 via Calcutta and strategically important location to provide viable alternative to the rail and road routes connecting the major industrial hubs of Durgapur with the rest of country via Calcutta and Hooghly and geographical connection with the Bay of Bengal, DVC canal have huge economic potential for development as National Waterway; ➤ Programme for regular desiltation of the canal is to be prepared; ➤ Adequate quantity of water is to be ensured for navigation purpose and current shortfall, particularly during non-monsoon.
5.	Traffic potential	
a)	Present IWT operations, ferry services, tourism, cargo, if any	No present traffic is available. However huge potential for cargo traffic is foreseen considering its length and connectivity with major industrial hubs.
b)	Important industries within 50 Km	<ul style="list-style-type: none"> a) Durgapur Thermal Power Station; b) Durgapur Steel Plant; c) Alloy Steels Plant; d) Durgapur Projects Ltd. e) Mining and Allied Machinery Corporation; f) Alstom Power Boilers Ltd.; g) Hindustan Fertilisers Corporation;

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

S. No.	Particulars	Details
		<ul style="list-style-type: none"> h) Philips Carbon Black Ltd.; i) Sankey Wheels; j) Bharat Ophthalmic Glass Ltd; k) Durgapur Cement Ltd.(now Birla Cement); l) Graphite India Ltd.; m) Durgapur Chemicals Ltd.; n) Ispat Forgings;
6.	Consultant's recommendation for going ahead with Stage-II (DPR preparation)	<p>DVC Canal waterway is recommended for Stage – II DPR preparation in view of the following potential advantages:</p> <ul style="list-style-type: none"> a) Connectivity of major industrial hubs with National Waterway - 1. b) Increasing Cargo potential. c) Reduction in existing traffic load on rail and road infrastructure.
7.	Any other relevant information / comment	<ul style="list-style-type: none"> ➤ DVC Canal was constructed by Damodar valley Corporation in 1957 as Navigation cum Irrigation Canal. ➤ The canal was designed to have a minimum supply depth of about 2.4 m all around the year to maintain navigation by river crafts with requisite drafts. ➤ DVC Canal takes off from head works at Durgapur Barrage and runs approximately 130 Km from West to East and ends up near Tribeni, connecting to NW – 1. ➤ Canal can be connected with Bokaro Steel City by additional investments of constructing and maintaining a navigation channel of 60 Km length upstream of Durgapur barrage and 2 locks.

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

1.0 CONTEXT

IWAI, Ministry of Shipping, Government of India is exploring the potential of additional waterways across the country for year round commercial navigation, for this it is planned to conduct a Feasibility Study and recommending thereafter the possibility of Composite and Integrated development of National waterways to achieve navigation and to develop water transport facilities across India. Upon completion of feasibility study, IWAI will select the stretches having potential for navigation to undertake a Detailed Project Report. The DPR stage would include detailed hydro-graphic surveys and investigation, traffic survey, proposed location for terminals and cost assessment etc.

There are 106 new waterways has been identified and declared as national waterways as per "The National Waterway Act, 2016", No. 17 of 2016, published in the Gazette of India, Part – II- Section 1 no. 18, New Delhi, Saturday, March 26/2016/Chaitra 6, 1938 (Saka), by Ministry of Law and Justice (Legislative Department).

Out of these 106 waterways, IWAI had invited international online bids for preparation of 2 stage Detailed Project Report (DPR) for National waterways, in a set of 8 Clusters from Cluster I to VIII through Tender No. IWAI/PR/53NW/2015. Egis Consulting Engineers was awarded the work for Cluster – I and III respectively.

This feasibility report provides the technical viability of throughout the year inland navigation in the National waterways, by taking into constraints and other functions of the rivers/canals such as water conveyance, tidal effects, floods, draughts, existing structures etc.

As stated above, 14 rivers/canals out of 106 national national waterways are clubbed in Cluster – III of two stages DPR studies for National waterways project. The detail descriptions of these 14 waterways are presented in **Table 1**. The total length of stretches of 14 river/canals under Cluster – III is 583 Km. Among these 14 waterways, 13 are located in the Sunderbans delta region and are declared as Sunderbans Waterways (National Waterway 97), with a total length of 453 Km, remaining 1 waterway is on DVC canal as National Waterway 34, from Durgapur Barrage to canal confluence with Hoogly River, with a total length of 136 Km.

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

Table 1: National Waterways of Cluster - III

S. No	River/Canal	National Waterway No.	Length (Km)	Description
1	Bidya River	National Waterway 97 <i>Sunderbans Waterways</i>	55	From Lot No. 124 at Lat 21°54'42.88"N, Lon 88°41'8.48"E to near Uttar Danga at Lat 22°11'47.93"N, Lon 88°51'54.93"E
2	Chhotta Kalagachi (Chhoto Kalergachi)		15	From near Rajani ferry ghat Lat 22°19'57.49"N, Lon 88°54'21.40"E to near Nazat at Lat 22°26'5.40"N, Lon 88°50'11.69"E
3	Gomar River		7	From near Ramkrishnapur Lat 22°11'53.35"N, Lon 88°44'41.97"E to near Gosaba Kheya ghat at Lat 22°10'5.44"N, Lon 88°47'37.17"E
4	Haribhanga River		16	From Bangladesh Border Lat 21°53'18.81"N, Lon 89° 1'23.61"E to confluence with Jhila river at Lat 21°58'17.66"N, Lon 88°55'8.38"E
5	Hogla (Holgal) River Pathankhali River		37	From near Parandar Lat 22°12'22.05"N, Lon 88°40'42.77"E to near Sandeshkhali Ferry Ghat at Lat 22°21'12.26"N, Lon 88°52'47.99"E
6	Kalindi (Kalandi) River		8	From Bangladesh Border at Hingalganj Lat 22°28'8.48"N, Lon 88°59'46.19"E to Bangladesh Border near Khosbash at Lat 22°24'41.40"N, Lon 88°58'20.68"E
7	Katakhalai River		23	From Bangladesh Border near Barunhat Lat 22°30'31.44"N, Lon 88°58'24.53"E to Lebukhali ferry at Lat 22°21'45.36"N, Lon 88°57'30.27"E
8	Matla River		98	From Bay of Bengal at Lat 21°33'4.13"N, Lon 88°38'25.65"E to Canning ferry ghat at Lat 22°18'38.87"N, Lon 88°40'42.65"E
9	Muri Ganga (Baratala) River		27	From Bay of Bengal near Bisalakshmipur Lat 21°37'51.94"N, Lon 88°10'0.24"E to near Kaktwip at Lat 21°52'17.39"N, Lon 88° 9'7.52"E

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

S. No	River/Canal	National Waterway No.	Length (Km)	Description
10	Raimangal River	National Waterway 97	52	From Hemnagar at Lat 22°11'40.58"N, Lon 88°58'1.08"E to Rajnagar at Lat 22°33'56.95"N, Lon 88°56'16.64"E
11	Sahibkhali (Sahebkhali) River	Sunderbans Waterways	14	From near Ramapur Lat 22°17'52.04"N, Lon 88°56'34.78"E to Bangladesh Border near Khosbash at Lat 22°24'41.40"N, Lon 88°58'20.68"E
12	Saptamukhi River		37	From Bay of Bengal at Henry Island Lat 21°34'57.35"N, Lon 88°19'8.47"E to near Chintamanipur at Lat 21°51'14.01"N, Lon 88°18'40.50"E
13	Thakurran River		64	From Bay of Bengal at Lat 21°33'31.95"N, Lon 88°27'45.40"E to Madhabpur at Lat 22° 2'52.19"N, Lon 88°33'27.96"E
14	DVC Canal	National Waterway 34	136	From Durgapur Barrage Lat 23°28'47.36"N, Lon 87°18'19.04"E to Confluence point of DVC canal with Hooghly river near Tribeni Lat 23° 0'30.95"N, Lon 88°24'54.72"E

The detailed layout plan of the above waterways is shown in Drawing No. PT/EIPTIWB002/2016/FR/0001 attached as **Annexure 4**. The same is also provided here as **Figure 1**.

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

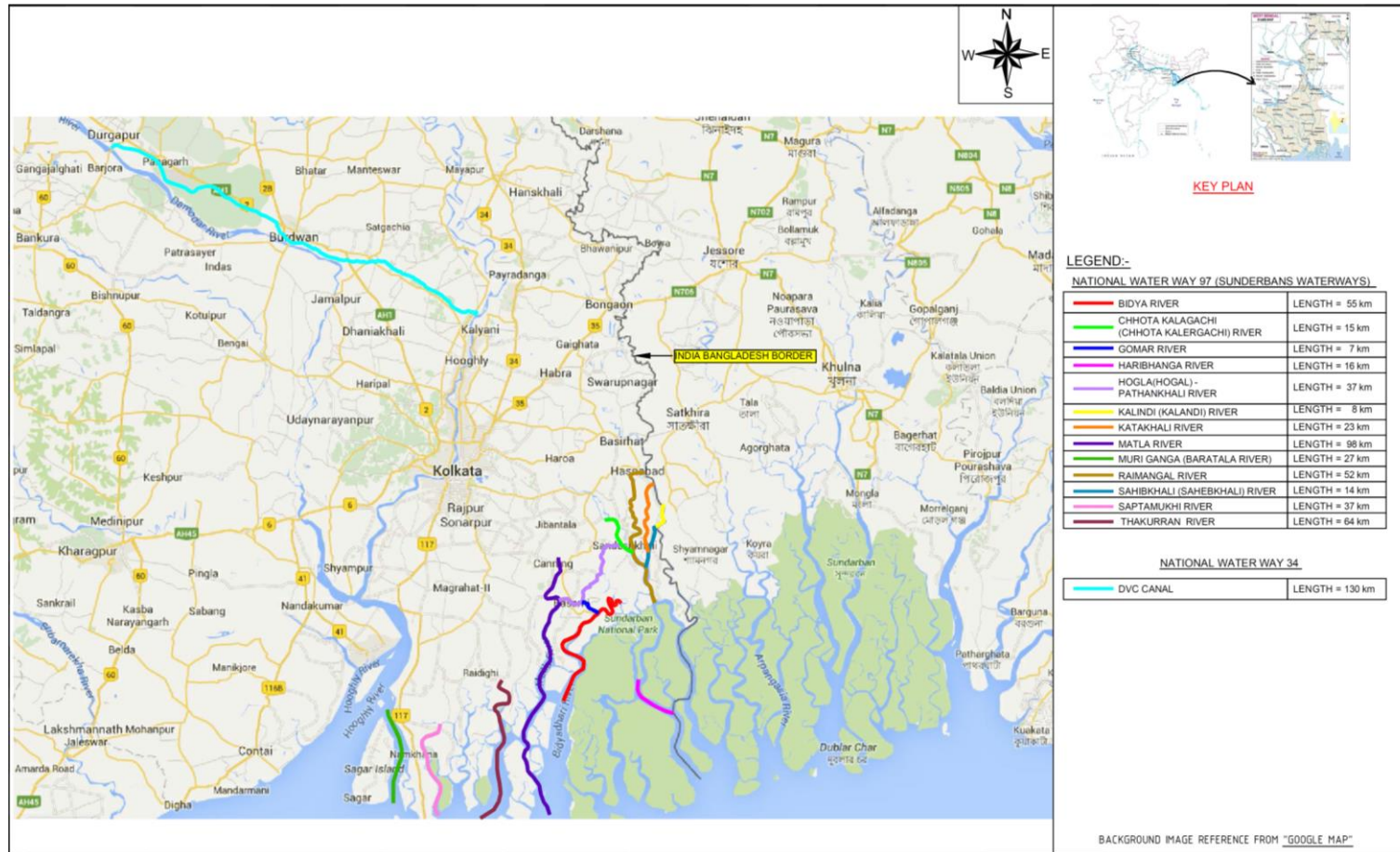


Figure 1: Layout Map of Cluster – III Waterways

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

2.0 OBJECTIVE

Government of India intends to explore the potential of additional waterways across the country for year round commercial navigation, for this it is planned to conduct a Feasibility Study and recommending thereafter the possibility of composite and integrated development of National waterways to achieve navigation and to develop water transport facilities across India. The whole of study comprises of two stages, feasibility and DPR as Stage-I and Stage-II as presented below.

Stage-1

- 1A. Reconnaissance Survey
- 1B. Collection and review of available data
- 1C. Feasibility Report

Stage-2

- 2A. Hydrographic Survey & hydro-morphological survey
- 2B. Traffic Survey & Techno economic feasibility
- 2C. Preparation of Detailed Project Report

The current scope for stage-I is executed as per following framework (**Figure 2**).

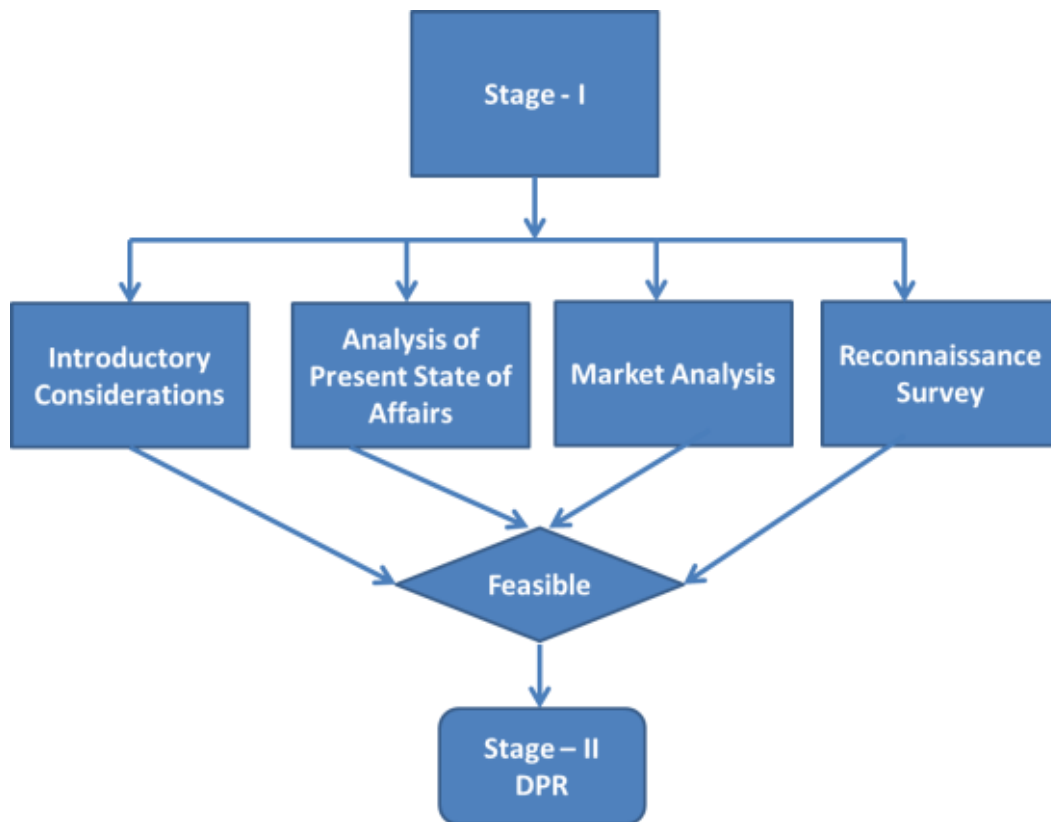


Figure 2: Framework of Studies

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

3.0 REPORT STRUCTURE

The current feasibility report is towards second milestone of project deliverable for Cluster-III Rivers. As suggested by IWAI, the consultant shall deliver two standalone reports, one feasibility report for DVC canal (length 136 Km) and another on Sunderbans waterways. The report is arranged in following main chapters,

- I. **Introductory Consideration**: This section comprises of,
 - ii) Name of the river/canal;
 - iii) Length of the river/canal;
 - iv) State/ District through which river passes;
 - v) Map;
 - vi) Characteristics of River;
 - a. River Course: Background/Historical information, Origin, End
 - b. Tributaries/ Network of Rivers/ Basin
 - vii) Methodology Adopted to undertake the Study;
 - a. Primary Data
 - b. Secondary Data

- II. **Analysis of Present State of Affairs**: This section comprises of,
 - 1) Existing Dams, Barrages and Locks;
 - 2) Existing Bridges and Crossings over River;
 - 3) Other Cross structures, High Tension Lines, pipe-lines, cables;
 - 4) Hindrances/ Encroachment to the Waterway;
 - 5) Details of Protected Area- Wildlife, Defence;
 - 6) NH/SH/MDR along and/or in vicinity;
 - 7) Railway Line and Stations in the vicinity.

- III. **Reconnaissance Survey**: This section provides the,
 - 1) Methodology adopted including resources and equipment;
 - 2) Description of Bench marks, reference levels, chart and sounding datum;
 - 3) Details of collected water levels, discharge data, HFL and FSL;
 - 4) Details and description of bathymetric and topographic survey including observations;
 - 5) Detail about Soil, Water and Bank characteristics.

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

- IV. **Market Analysis:** This section comprises of,
- 1) Land use pattern along Waterway;
 - 2) Crop/Agriculture in the region;
 - 3) Availability of Bulk/Construction Material;
 - 4) Existing industries along waterway;
 - 5) Details of existing Jetties and Terminals;
 - 6) Preliminary traffic identified;
 - 7) Existing cargo movement;
 - 8) Prominent City/ Town/ Places of worship/ Historical places for tourism;
 - 9) Availability of passenger ferry services;
 - 10) Available and probable water sport/recreational facilities.
- V. **Observation and Inferences:** This section comprises of,
- 1) Observation on Waterway, Length, LAD, Cross-Structures;
 - 2) Water availability for different periods and depths;
 - 3) Cargo/Passenger/Tourism/RO-RO facility;
 - 4) Suitability of waterway for navigation;
 - 5) Proposed alternative methods for making waterway feasible;
 - 6) SWOT analysis;
 - 7) Way forward for Stage – 2 DPR studies.

In addition to the above, following digital data and charts shall also be submitted along with this report:

- I. **Bathymetric Survey:** Hypack software output files with RAW, EDIT, SORT, TIDE extensions;
- II. **Topographic Survey:** csv and xyz extension files;
- III. **Survey Charts:** Geo-coded dxf and dwg files in scale as per width in AutoCAD formats;

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

4.0 INTRODUCTORY CONSIDERATIONS

The Consultant discussed here, the introductory considerations for feasibility and the scope of the assignment in subsequent phase of DPR for feasible stretches.

The present feasibility report provides the technical feasibility of DVC, declared as National Waterway 34, clubbed under Cluster – III, as stated in earlier sections. The detail description of the waterway analysed in this feasibility report are described in subsequent paragraphs,

4.1 DETAILS OF NATIONAL WATERWAYS

Details of the waterways are as follows:

Table 2: Description of the Waterway

Name of the River/Canal	Local Name	Length of waterway (Km)	State/District through which river passes
DVC Canal	DVC Canal	136	West Bengal <i>Burdwan District, Hooghly district</i>

DVC Canal waterway starts from Durgapur Barrage (Chainage – 0 Km) and ends near Tribeni, the confluence point of Kunti river with Hooghly River (Chainage – 136 Km). Length of the waterway given in TOR (i.e. 130 Km) is from Durgapur barrage to Gopalpur (Location of canal confluence with Kunti River). However, as per the co-ordinates provided in TOR and from the economic considerations, the waterway is considered upto the Hooghly River. In view of the above, the total length of the DVC Canal waterway works out to 136 Km including the portion of Kunti river.

4.2 CHARACTERISTICS OF DVC CANAL

Damodar Valley Corporation (DVC), was set up in July, 1948 under the Damodar Valley Corporation Act No XIV of 1948 with the broad objective of unified development of the Damodar River Basin. Durgapur Barrage over the Damodar River was constructed as part of this development plan. Durgapur Barrage has two main canal systems and was completed in 1957. The two main canals take off, from either bank and are known as Left Bank Main Canal (L.B.M.C) and Right Bank Main Canal (R.B.M.C).

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

LBMC of the DVC, designed as irrigation-cum-navigation canal, takes off from the head works at Durgapur barrage and runs approximately 130 Km from West to East and falls into the river Kunti at about 6.0 Km above its confluence with the river Hooghly near Tribeni. Total 136 Km stretch of LBMC including the stretch of Kunti river upto its confluence with river Hooghly is categorized as National Waterway 34 - DVC Canal and is studied in detail in this report.

The Canal, as designed, has a bed width of 52.0 m at the head (near Durgapur Barrage) which reduces to 30.0 m near Palla Colony. Between Durgapur and Palla the bed width gradually reduces depending upon the carrying capacity of the irrigated distributaries taking off from the Canal. At Palla colony, the canal bifurcates into two canals. From Palla, DVC canal is designed for a bed with of 18.0 m up to the tail end.

The canal was designed to have a minimum supply depth of about 2.4 m all-round the year to be suitable for navigation by river crafts with draft of 1.80 m. The upper reach of the canal i.e. Durgapur to Palla (85 Km) has been designed for a discharge of 260 m³/sec and tail end of Palla to Gopalpur for about 85 m³/sec. The designed velocity of water varies from 0.6 to 0.9 m/sec.

The section of the DVC under feasibility study for inland waterway is presented in Drawing No. PT/EIPTIWB002/2016/FR/0015 in **Annexure 4**.

4.3 METHODOLOGY ADOPTED TO UNDERTAKE STUDY

A detail description on Feasibility & DPR methodology and the expected outcome in fulfilling the assignment is presented.

4.3.1 Classification of Waterways

The classification of waterways by Inland Waterway Authority of India is discussed below and shall be adopted in the study.

- 1) The waterways shall be classified in the following categories for safe plying of self-propelled vessels up to 2000 tonne Dead Weight Tonnage (DWT) and tug-barge formation in push-tow units of carrying capacity up to 8000 tonne, namely:

- a) **Class I** - Waterways with the following configuration of navigable channel:-

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- i) Rivers: Minimum of 1.2 meter depth, 30 meter bottom width, 300 meter bend radius, 4 meter vertical clearance and 30 meter horizontal clearance between piers, and
 - ii) Canals: Minimum of 1.5 meter depth, 20 meter bottom width, 300 meter bend radius, 4 meter vertical clearance and 20 meter horizontal clearance between piers.
- b) Class II -** Waterways with the following configuration of navigable channel:-
- i) Rivers: Minimum of 1.4 meter depth, 40 meter bottom width, 500 meter bend radius, 5 meter vertical clearance and 40 meter horizontal clearance between piers, and
 - ii) Canals: Minimum of 1.8 meter depth, 30 meter bottom width, 500 meter bend radius, 5 meter vertical clearance and 30 meter horizontal clearance between piers.
- c) Class III -** Waterways with the following configuration of navigable channel:-
- i) Rivers: Minimum of 1.7 meter depth, 50 meter bottom width, 700 meter bend radius, 7 meter vertical clearance and 50 meter horizontal clearance between piers, and
 - ii) Canals: Minimum of 2.2 meter depth, 40 meter bottom width, 700 meter bend radius, 7 meter vertical clearance and 40 meter horizontal clearance between piers.
- d) Class IV -** Waterways with the following configuration of navigable channel:-
- i) Rivers: Minimum of 2.0 meter depth, 50 meter bottom width, 800 meter bend radius, 10 meter vertical clearance and 50 meter horizontal clearance between piers, and
 - ii) Canals: Minimum of 2.5 meter depth, 50 meter bottom width, 800 meter bend radius, 10 meter vertical clearance and 50 meter horizontal clearance between piers.
- e) Class V -** Waterways with the following configuration of navigable channel:-

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- i) Rivers: Minimum of 2.0 meter depth, 80 meter bottom width, 800 meter bend radius, 10 meter vertical clearance and 80 meter horizontal clearance between piers, and
 - f) **Class VI** - Waterways with the following configuration of navigable channel:-
 - i) Rivers: Minimum of 2.75 meter depth, 80 meter bottom width, 900 meter bend radius, 10 meter vertical clearance and 80 meter horizontal clearance between piers, and
 - ii) Canals: Minimum of 3.5 meter depth, 60 meter bottom width, 900 meter bend radius, 10 meter vertical clearance and 60 meter horizontal clearance between piers.
 - g) **Class VII** - Waterways with the following configuration of navigable channel:-
 - i) Rivers: Minimum of 2.75 meter and above depth, 100 meter and above bottom width, 900 meter bend radius, 10 meter vertical clearance and 80 meter horizontal clearance between piers.
- 2) Vertical clearance for power cables or telephone lines or cables for any transmission purpose for all the classes of waterways mentioned above shall be as follows:
- a) Low voltage transmission lines including telephone lines - 16.5 meters
 - b) High voltage transmission lines, not exceeding 110 kilo volt - 19.0 meters
 - c) High voltage transmission line, exceeding 110 kilo volt - 19.0 meters
+1 cm extra for each additional kilovolt
- 3) In case of underwater pipelines, power cables and other cables, norms to be followed shall be decided as per the site conditions and navigational requirement.

Provided that this classification shall be effective for:

- a) Minimum depth of channel should normally be available for about 330 days of the year.
- b) Vertical clearance at cross structure over the waterway should be available at least in central 75% portion of each of the spans in entire width of the waterway.

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Reference level for vertical clearance in different types of channel shall be:

- a) For rivers, over Navigational High Flood Level (NHFL), this is the highest flood level at a frequency of 5% in any year over a period of last twenty years.
- b) For tidal canals, over the highest high water level.
- c) For other canals, over designed full supply level.

4.3.2 Measures to Improve the Depth

The basic parameters considered for the fairway design are:

- Depth
- Width
- Side slopes
- Bends

As explained above, as the classification of waterways in India is based on the experience gained in various waterways, the characteristic features of the design waterways based on studies carried out by IWAI are furnished below and the same shall be followed.

Fairway Design

The fairway depth should be good enough to ensure stability of the vessel and to prevent bottom feel. To meet this requirement, the minimum depth that is needed in a channel would commonly be the sum of the draught (draft) of the vessel and other tolerance factors. The tolerance factors to be considered are listed as:

- Factor of keel clearance to avoid touching of the vessel to the ground and minimum free water below the keel for maintaining control on manoeuvring,
- Wave tolerance for the heaving and pitching of the vessel due to wave motion,
- Squat, increase of draft due to ship motion,
- Tolerance for siltation and dredging,
- Increase of draught due to trim and heaving due to unequal loading and steering manoeuvre respectively, and
- Tolerance for the change of draught during the transition from salt water to fresh water.

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The keel clearance factor is the prime concern of the all tolerance factors considered. As per the standards laid down by German Code of practice (EAU 80), a 0.3 m layer of water column below the keel of the loaded ship is sufficient for free manoeuvrability of the vessel.

IWAI's experience in inland waterways in India and sub-continent (Bangladesh and Myanmar) shows that the under keel clearance for free manoeuvrability of the vessel varies between 0.2 and 0.5 m depending upon the soil characteristics of the channel bed and other parameters.

Width of a Channel

The total width of a navigation waterway (W) in general is expressed in terms of a beam of a vessel (B). The design width for the proposed two-way navigation can be obtained as:

$$W = BM + BM1 + C + 2C1$$

where: W = Navigation channel width for two-way navigation;

BM = Maneuvering zone for the design vessel which takes into account the directional stability of vessel.

$BM 1$ = Maneuvering zone for the upcoming vessel which takes into account the directional stability of vessel.

C = Width of separating zone.

$C 1$ = Width of the security area, between the maneuvering zone and the channel side which is accounted for environmental and human factors including bank suction.

Values recommended by various authorities for the above equation vary within wide limits. Some of the recommended values are presented here:

$$BM = 1.3 B \text{ to } 3.0 B$$

$$BM = BM 1$$

$$C = 0.5 B \text{ to } 1.0 B$$

$$C1 = 0.3 B \text{ to } 1.5 B$$

where: B = Beam of a design vessel.

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Based on the experience and recommendations of experts on Inland Waterways, the factors considered for the present design are:

$$\begin{aligned} \text{BM} &= 1.8 B \\ \text{BM} &= \text{BM1} \\ \text{C} &= 0.5 B \\ \text{C1} &= 0.5 B \end{aligned}$$

The designed channel width = $1.8B+1.8B+0.5B+2 \times 0.5B$ for two way navigation at draft level = $5.1B$. The bottom width of the channel for two-way navigation for the design vessel can generally be considered as $5 \times B$.

Slopes

The selection of slope is in accordance with the soil characteristics of the bed and banks, width of the waterway etc. The adopted channel slope shall be 1:5.

Width Allowance at Bends

In bends, the width of the fairway should be more than the width of the canal that is designed for a straight reach to allow for a drift of the vessel in a curved portion of the waterway. It means that the vessel occupies a greater width in bends than in a straight stretch of the waterway. The drift of the vessel depends on the radius of the bend, the speed of the vessel, wind forces, the flow pattern and the loading of the vessel. The drift angle is larger for vessels traveling in the downstream than the upstream direction. The drift angle is inversely proportional to the bend radius 'R', that is, the larger the radius the smaller the value of drift angle. Unloaded ships normally subjected to more drift and consequently take up a greater width in bends than loaded ships and therefore the proposed allowance at the keel level of the unloaded ships is larger than the loaded ships.

Dredging of Navigational Channel

The dredging quantities for the above design channel shall be worked out based on the bathymetric surveys carried out.

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The system and different type of navigation marks shall be proposed in the DPR are given as follows:

- Lateral marks, to mark the left and right sides of the navigation route to be followed by navigator;
- Bifurcation marks, to mark the middle ground between the navigation channel, bifurcated channel and isolated dangers in the middle of the navigational channel;
- Shore marks;
- Bank wise marks, to indicate the channel at point where it approaches a bank;
- Crossing marks, to indicated crossing and alignment of the channel from one bank to another
- Marks of prohibited areas, to indicate no permission of entry;
- Sound signal marks, to indicate use of horning or other sound signals;
- Marks for traffic control, to control up bound or down bound vessel in one way or sequence passage or to prohibit navigation;
- Marks on bridges, to indicate the passage through bridges;
- Depth indicator marks, to indicate shallow areas ahead in the navigation channel;
- Width indicator marks, to indicate the narrow stretches ahead in the navigational channel;
- River training marks, to indicate the ongoing river training works in the river to the navigators.

4.3.3 IWT Terminal Planning

The terminal planning and design includes selection of suitable sites in the vicinity of cargo potential considering all the relevant technical variables such as choosing the type of berthing facility and providing of covered/open storage facility, cargo handling systems and other ancillary facilities required for efficient terminal operation. Based on the projected traffic, the selection of various facilities shall be planned. The cost estimate including capital and operating costs shall be estimated for each of the proposed system considering the design. These above aspects are briefly explained in the following subsequent sections

Planning Considerations

The terminal facilities proposed for this project shall include the following:

- i) Berthing Facilities for vessels;
- ii) Cargo Storage Facilities;
- iii) Cargo Handling Facilities;

- iv) Other ancillary Facilities.

Terminal Facilities

The type of cargo handling system required at the terminal is generally dependent on the type of cargo, the annual volume required to be handled and the size of the vessels. The various type of cargo foreseen to be handled at the proposed IWT Terminals are primarily grouped into:

- i) Incoming Cargo, and
ii) Outgoing Cargo.

These above two groups are further subdivided into bulk, bagged and other miscellaneous general cargo for the purpose of planning the cargo handling equipment. The quantum and other cargo compositions shall be based on the traffic study. The same may be classified as below:

- Bulk Cargo - Construction materials such as Sand, stone, bricks, Marble, Iron steel, Machinery – Light, Heavy and ODC, Mineral Ore such as coal, lime stone, iron, fly ash, copper ore etc., bamboo, etc.
- Bagged Cargo - Cement, Fertilizer, wine and beverages, acids, cereals, cash crops, wheat, rice, Bajra, gram, pulses, cotton, etc.
- Misc. General Cargo – Consumer goods, animals, oil cake, edible oil, refined oil, paper products, jute products, etc
- Ferry – Passenger vessels for Tourists

4.3.4 Identification of IWT Terminals

Site selection is the most important as it decides the investment for establishing the terminal facilities. Hence, proper consideration has to be given to select the most optimum location which will minimise the capital investment and other recurring cost during operation. The selection of suitable site shall be carried out with the view of following considerations:

- Water availability near the terminal land throughout the year especially during lean season,
- Stable river channel with sufficient depth,
- Favourable hydraulic conditions for berthing and cargo handling,
- Availability of terminal land for infrastructure, cargo storage and handling,

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- Traffic potential and cargo characteristics, and
- Navigational safety.

The proposed IWT Terminals shall be planned with the following infrastructure facilities for operation:

- i) Steel Gangway resting on a floating pontoon. The detailed engineering & design of gangway arrangement shall be carried out during the construction stage. The preliminary layout drawing shall be proposed in the DPR.
- ii) Administration Building and Bank protection arrangement,
- iii) Covered Storage Shed/Transit Shed,
- iv) Open storage area,
- v) Security Shed,
- vi) Forklift Trucks, Pay loaders & Dumper tracks, and
- vii) Weigh Bridge, Watch and ward, Compound wall, Firefighting arrangement, Electrical & PH Facilities including DG.

The terminal shall be proposed with suitable mooring facilities, firefighting water line, water supply pipeline, power line for shore connection to barges, fenders etc. Preliminary planning and master plan shall be prepared in the DPR stage as per the relevant IS codes. It is envisaged and proposed that to the extent possible, all shore/river bank based buildings / godown are prefabricated, pre-engineered type conforming to the best standards in vogue in logistic / supply chain industry.

Other Alternatives to Improve for Navigation

Based on our earlier study for Ganga River between the reach from Allahabad to Ghazipur, there are many methods available to improve river navigation. Bandalling work – it has to follow closely falling stage of river, closing minor channels and diverting river flow in single channel to increase depth in the navigable channel in mainly due done by bandalling. In some reaches this method becomes successful but some river stretches remain shallow and need other training measures including dredging. Channelization of river and Construction of barrages at suitable locations, creating ponding conditions with required depth and navigational locks for ships and vessel movement shall be studied. The examination of various options/measures to improve the water depth shall be studied. The most suitable method for development shall be identified with consideration on the likely morphological, sediment transport, and dredging aspects of different options. This task is expected to be fed back into from the financial and economic analysis providing refinement to the proposed development until

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a recommended solution is reached. The most appropriate type of river development including dredging option along the river shall be identified and likely impacts of these developments on river flow depths as well as sedimentation and morphology shall be investigated. This analysis will constitute an iterative process in which problems relating to LAD will be addressed to find more successful solutions where necessary. This will however, not be an open-ended process as the assessment of techno-economic feasibility updation only requires an indication of the likely costs of building and maintaining the structures which are shown to support achievement of LAD as intended.

4.3.5 Rapid EIA

Suitable Rapid Environmental Impact Assessment shall be performed and report shall be included in final DPR. The Rapid EIA Studies can be broadly divided in to three phases.

- The first phase involves identification of significant environmental components in the area where the project is located and assessing their baseline (pre-project or existing) status within the study zone. In case of existing projects, environmental performance of existing manufacturing / pollution control plants is also required to be covered.
- The second phase involves prediction of impacts on various identified significant environmental parameters due to proposed project.
- The third phase includes the evaluation of final impacts and delineation of an Environmental Management Plan to mitigate adverse impacts on the quality of surrounding environment.

4.3.6 Concept Design and Cost Estimate

Preliminary Design shall be performed for all the structures /developmental works proposed as per the above analysis and mathematical model studies carried out conforming to relevant IS Codes. Design drawings shall be prepared and submitted based on the preliminary design. Bill of quantities and cost estimates shall be prepared for all the proposed structures / developmental works. Based on the cargo potential and other considerations necessary for locating an IWT terminal, extent of land required for setting up of IWT terminals and other suitable locations shall be identified. Preliminary topographic survey shall be carried out and layout plan for all suggested locations shall be prepared clearly indicating all facilities e.g jetty, approach to jetty, bank protection, covered and open storage, roads, office, sentry hut, boundary wall, bank protection, bunkering facility, water facility, turning circle for IWT vessels location of depth contours of 2m and 2.5m in the river near the terminal sites. Preliminary engineering design and drawings for setting up of terminals with related facilities including

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mechanical loading/ unloading at the proposed sites shall be prepared. Also inter modal cargo transfer facilities required at these terminals shall be indicated.

4.3.7 Financial and Economic Analysis

Financial and economic analysis through FIRR and EIRR of the project including SWOT analysis shall be carried out for the project. For the Financial Internal Rate of Return shall be computed as follows:

- Costs shall be calculated as total capital investment for the Project components, net rate of interest charges during construction and operations & maintenance costs for the Project.
- Income flows shall be calculated based on gross revenues of projected goods to be transported through private operators with permissible assumptions such as project life etc.
- Economic Internal Rate of Return shall be computed taking into account the following factors.
- The assumed life of the project as per norms.
- Costs shall be calculated as Government contribution and other sources. A standard conversion factor shall be used to reduce financial costs to economic costs.
- Benefits shall be estimated as Government revenues, calculated as net profit share, royalties and tax.
- Social Benefits like fuel saving, reduction in environment pollution and carbon emission, accident reduction, decongestion of rail and roads, etc.

The financial viability and sustainability of this project depend upon the adaptation to the prevailing context in which they operate. In working out the Financial Viability and sustainability, the following factors shall be considered.

- budgeting and cost accounting systems,
- resource mobilization for capital investments,
- cost recovery and operational financing,
- cost reduction and control.

The Profitability projections and financial analysis for each of the project components shall be worked out in detail and presented in the report. The financial statements shall be prepared on the basis of the suitable assumptions. The cost benefit analysis for the proposed project shall be calculated. The Net Present Value (NPV) with interest and depreciation, IRR and preliminary expenses shall be

suitably considered and estimated. Break-even analysis shall be performed and presented in the report.

4.3.8 Implementation & Monitoring Mechanism

Project financial structuring shall be worked out in detail which will examine the sources and composition of funding for the project. The Project financial structuring can involve a combination of equity, grant, debt and finance from private participation (and in some cases, contribution from user communities). The scope and options for possible debt and private sector financing shall be reviewed elaborately and presented in the report. The suitable monitoring mechanism shall be evolved

5.0 COLLECTION AND REVIEW OF DATA

5.1 PRIMARY DATA

In order to collect primary data and to access the latest hydro-morphological condition of the waterway, reconnaissance survey was done. Following aspects had been covered in the reconnaissance survey as per TOR:

- a) Single line longitudinal survey (Bathymetric survey or Topographic survey) in the deepest depths or lowest height lands, with the help of DGPS using Automatic Hydrographic Survey System. Bathymetric surveys in the waterways are to be carried out in the deepest route. Deepest route can be accessed by taking two or three longitudinal line soundings at equal interval. Topographic survey, if required, is to be taken up at lowest ground levels, which can be decided on visual assessment.
- b) Details (horizontal and vertical clearances above High Flood Level of bridges, aqueducts, electric lines, telephone lines, pipe lines, cables en-route are to be collected and indicated on the chart and also included in the report along with their co-ordinates and location. Details about Barrages, Dams, Locks en-route are also to be collected horizontal and vertical clearance is to be given as approximate on visual assessment.
- c) Photographs are required to be submitted in the report.
- d) Topographical features of the Inland Waterways.
- e) Typical physical features along the alignment i.e. land use pattern:
- f) Preliminary identification of stretches having year round flow and critical depth for navigational purpose.
- g) Inventory of major aspects including Inland Waterway width, Terrain, Bridges and structures across the Inland Waterways (Type, size and location), urban areas (location extent). Geologically sensitive areas environmental features. Hydrological features
- h) Critical areas requiring detailed investigations and
- i) Requirements for carrying out supplementary investigations
- j) Soil (textural classifications) (only visual inspection at every 10Km) and drainage conditions.
- k) Type and extent of existing utility services along the alignment.

All the above details are collected during field survey as well as by interaction with the concerned authorities from 05th Mar 2016 to 10th Mar 2016 by the Consultant.

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5.2 REVIEW OF SECONDARY DATA

5.2.1 Network of West Bengal Rivers

The state of West Bengal crowned by the mighty snow-white Himalayas in the North and frothy sea on the South is a combination of land varying from high regions in the north and partly high in the south west to the plains in the rest areas. The state is beset with extensive network of rivers, their tributaries, rivulets, jhoras, canals, tanks beels and low lying pockets of water bodies. With the Tropic of Cancer running across it, the state is situated between 21°31' & 27°13'14" North Latitudes and 85°45'20" & 89°53' East Longitudes. The geographical area of the state is about 88,752 sq.Km with a population density of 1023 per sq.Km according to 2011 census.

West Bengal, a part of Bengal Delta, has a long recorded history of flood. Reason is, the landmass of the State was formed by the Ganga- Padma system of rivers through the delta building process of which flood being the main carrier of sediments, the bulk of fluvial deposit, in huge volumes. At present 42.3% of total area of the State is susceptible to flood. The highest affected area as recorded in 1978 is about 30,607sq.Km.and in 2000 is about 23,971 sq.Km.

Ganges enters West Bengal near Rajmahal and then flows in a south-easterly direction. It divides into two near north of Dhulian in Murshidabad district. One branch enters Bangladesh as the Padma while the other flows through West Bengal as the Bhagirathi River and Hooghly River in a southern direction. The Bhagirathi is the main river in West Bengal which flows past some of the important cities like Murshidabad, Baharampur, Nabadwip, Chinsura, Chandannagar, Srirampur, Howrah, Kolkata, Diamond Harbour and Haldia. It releases its water into Bay of Bengal near Sagar Island in the South 24 Parganas.

The Mayurakshi, Ajay, Damodar, Kangsabati, Rupnarayan and their tributaries which rise in the Western plateau and high lands flow eastwards through the different districts of West Bengal and joins the Bhagirathi on the right bank. The Mayurakshi, which is fed by tributaries Brahmani, Dwarka, Bakreshwar and Kopai joins the Bhagirathi near Kalna through river Babla, the Ajay, which rises in the hills of Jharkhand, being joined by the Kunur, flows down the plateau fringe, marking the boundary between Bardhaman and Birbhum districts joining it near Katwa and Damodar, with its small meandering distributaries, small streams, Khari, Banka and Behula joins the Bhagirathi near Uluberia.

The Damodar known as the sorrow of Bengal, is now controlled after formation of the Damodar Valley Project. The Dwarakeswar and Silabati rivers join to form Rupnarayan and the Kangsabati and

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Keleghai rivers join to form the Haldi. The Rupnarayan and Haldia fall into the Bhagirathi in the Purba Medinipur district. The Subarnarekha River entering from Jharkhand and after flowing for a short distance in West Bengal re-enters into Orissa. These rivers carry plenty of water thus keeping the Bhagirathi river with optimum water throughout the year. The rivers along with water carry silt and sand eroded from the western plateaus and deposits them in the Bhagirathi and the rivers themselves. This silting is causing great inconvenience for the Kolkata Port and often results flooding in the years of heavy rain.

The distributaries of the Padma River like Bhairab, Jalangi, Mathabhanga river and their tributaries enters West Bengal and joins the Bhagirathi on its left bank. The Bhairab and the Jalangi meet and their joined course known as Jalangi falls into Bhagirathi. The Mathabhanga divides into branches namely; Churni and Ichhamati, The river Churni meets the Bhagirathi while the other flows southwards and joins the Kalindi. The Sunderbans region is covered by numerous estuaries and streams, mainly distributaries of main rivers. The rivers are interconnected and are fed by tidal waters. The major rivers of the area are Hoogly, Matla, Gosaba, Saptamukhi, Haribhanga, Piyali, Thakuran/ Jamira, Raimangal, Kalindi and Ichhamati.

Teesta, Torsa, Jaldhaka, Kaljani, Raidak, Sankosh and Mahananda rivers are in the northern hilly region which rise in the Himalayas and flow in a southerly direction through the districts of Darjeeling, Jalpaiguri, Cooch Behar and North and South Dinajpur and enters Bangladesh. As most of the rivers are snow fed, most of the rivers are perennial in nature and often floods during the rainy season. The entire region is made up of sand, gravel and pebbles laid down by these rivers.

The Mahananda rises from the Dow Hills forest, near the town of Darjeeling and are fed by similar small rivers like, Mahanadi, Balason, and Mechi and runs in a zig-zag way through the district of Malda and joins the Padma in Bangladesh. In the central region, the main river is the Mahananda. The Tangon, Punarbhabha, and Atrai arises in the plains, while the former two joins together and flows into Mahanadi, Atreyee flows into the Padma.

5.2.2 River Basins

The state can be demarcated into three distinct drainage basins coming under the Ganga, Brahmaputra and Subarnarekha system respectively. These three main river basins can in turn be divided into Sub-basins having individual catchment of their own.

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The area-wise distributions of the above main basins in the state with their catchment area are as under:–

- A. Brahmaputra Basin: 12, 218 sq.Km.
- B. Ganga including Sundarban Delta: 72, 953 sq.Km.
- C. Subarnarekha Basin: 3,581sq.Km.

Ganga Basin

The two holy rivers – Bhagirathi and Alakananda originating from the glaciers of the Himalayas at an altitude of 7000 m join at Devprayag and the combined stream is known as the Ganga. It emerges into the plains at Rishikesh in Uttaranchal. After flowing exclusively through Uttaranchal and Uttar Pradesh it receives the flow of Yamuna, the largest tributary at Allahabad.

The Ganga forms the boundary between Uttar Pradesh and Bihar for a length of about 110 Km and the river then enters Bihar and flows more or less through the middle of the state. After its confluence with the Kosi, the Ganga continues its eastward flows in Bihar for about 40 Km and then it enters West Bengal.

As it enters West Bengal, the river swings round the Rajmahal hill range and then starts flowing almost due south. The river then bifurcates into two arms about 40 Km. below Farakka. The left arm called the Padma flows eastwards into Bangladesh while the right arm called Bhagirathi continues to flow south through West Bengal. The stretch of the river after Nabadwip is called Hooghly and ultimately outfalls into the Bay of Bengal near Sagar Island.

The Central, Southern and the South-Western parts of the State of West Bengal constitute the Ganga Basin. The total length of the river Ganga from its point of origin to the point where it falls into sea is about 2,575 Km (measured along Bhagirathi and the Hooghly), of which 1450 Km lies in Uttaranchal and Uttar Pradesh, 110 Km along Uttar Pradesh and Bihar border, 445 Km in Bihar and 570 Km in West Bengal. The Ganga system comprises a total area of 72,953 sq.Km within the state of West Bengal.

5.2.3 Geography and Climate of West Bengal

West Bengal is on the eastern bottleneck of India, stretching from the Himalayas in the north, to the Bay of Bengal in the south. The state has a total area of 88,752 square kilometres (34,267 sq mi). The Darjeeling Himalayan hill region in the northern extreme of the state belongs to the eastern Himalaya. This region contains Sandakfu (3,636 m or 11,929 ft)—the highest peak of the state. The narrow Terai region separates this region from the North Bengal plains, which in turn transitions into the Ganges delta towards the south. The Rarh region intervenes between the Ganges delta in the east and the western plateau and high lands. A small coastal region is on the extreme south, while the Sunderbans mangrove forests form a geographical landmark at the Ganges delta.

The Ganges is the main river, which divides in West Bengal. One branch enters Bangladesh as the Padma or Podda, while the other flows through West Bengal as the Bhagirathi River and Hooghly River. The Farakka barrage over Ganges feeds the Hooghly branch of the river by a feeder canal, and its water flow management has been a source of lingering dispute between India and Bangladesh. The Teesta, Torsa, Jaldhaka and Mahananda rivers are in the northern hilly region. The western plateau region has rivers such as the Damodar, Ajay and Kangsabati. The Ganges delta and the Sunderbans area have numerous rivers and creeks. Pollution of the Ganges from indiscriminate waste dumped into the river is a major problem. Damodar, another tributary of the Ganges and once known as the "Sorrow of Bengal" (due to its frequent floods), has several dams under the Damodar Valley Project. At least nine districts in the state suffer from arsenic contamination of groundwater, and an estimated 8.7 million people drink water containing arsenic above the World Health Organisation recommended limit of 10 µg/L.

West Bengal's climate varies from tropical savanna in the southern portions to humid subtropical in the north. The main seasons are summer, rainy season, a short autumn, and winter. While the summer in the delta region is noted for excessive humidity, the western highlands experience a dry summer like northern India, with the highest day temperature ranging from 38 °C (100 °F) to 45 °C (113 °F). At nights, a cool southerly breeze carries moisture from the Bay of Bengal. In early summer brief squalls and thunderstorms known as Kalbaisakhi, or Northwesters, often occur. West Bengal receives the Bay of Bengal branch of the Indian Ocean monsoon that moves in a northwest direction. Monsoons bring rain to the whole state from June to September. Heavy rainfall of above 250 cm is observed in the Darjeeling, Jalpaiguri and Cooch Behar district. During the arrival of the monsoons, low pressure in the Bay of Bengal region often leads to the occurrence of storms in the coastal areas.

Winter (December–January) is mild over the plains with average minimum temperatures of 15 °C (59 °F). A cold and dry northern wind blows in the winter, substantially lowering the humidity level. The Darjeeling Himalayan Hill region experiences a harsh winter, with occasional snowfall at places.

5.2.4 Rainfall

Due to its physical and geographical position, the state, apart from diverse characteristics like physical, topographical has climatological variations as well. The average rainfall in the state is 1750 mm, of which more than 75% occurs during the monsoon period while the hilly region at the foot hills receives the heaviest rainfall ranging from 2500 mm to 5000 mm, the southern districts in the plains receive average of 1125 mm to 1875 mm. The main rainfall season in this state is the South-West monsoon season during which the entire land (excepting the extreme north, the extreme north-east and extreme south) gets 75% of the annual rainfall. The gangetic plains of West Bengal get 78% of its annual rainfall during the monsoon period. During last seventy five years, the date of onset of monsoon over West Bengal was spread from last week of May to last week of June with its withdrawal from last week of September to second week of October.

5.2.5 Rainfall Pattern

The river Ganga divides the state into two parts, which are by and large homogeneous from the meteorological point of view. The northern half is designated as 'Sub-Himalayan West Bengal' and the southern half as 'Gangetic West Bengal'. Sub-Himalayan West Bengal is more susceptible to heavy rains both in respect of amount as well as in frequency of occurrence. Very heavy rain is more frequent in first two months (June and July) than in subsequent, in the Sub-Himalayan West Bengal. In Gangetic West Bengal the frequency is maximum in August followed by June, July and September in that order. On the basis of rainfall distribution, the state can be divided into two broad zones –

- A. The Himalayan and Sub-Himalayan Region,
- B. The Gangetic Plains.

A. Himalayan and Sub-Himalayan Region

The Himalayan and Sub-Himalayan Region comprising the districts- Darjeeling, Jalpaiguri, Coochbehar and Northern part of Islampur Sub- Division of Uttar Dinajpur district of high intensity of rainfall from 2000 mm. to over 4000 mm. about 80% of which is found to occur during monsoon season. On the

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average Darjeeling, Coochbehar and Jalpaiguri get 114, 112, 110 number of rainy days respectively in a year. The monsoon generally follows a northerly track to ultimately break up against Eastern Himalaya causing very heavy rainfall and thereafter trough of low pressure under break monsoon conditions. It then shifts northwards to the Himalayan foothills. It has been found that a precipitation to the tune of 200 to 300 mm. in two hours is not unusual while in more than forty occasions of rainfall of 250 mm. and above has been registered during 1891-1965.

B. Gangetic Plains

The gangetic plains which constitute the major portion of the state, can be further sub-divided into the following three sectors on the basis of average rainfall –

Sector – I: Comprising districts – Bankura, Burdwan, Hooghly, Nadia and Purulia which receive an average rainfall – between 1140 mm and 1400 mm.

Sector – II: Comprising districts – Birbhum, Midnapore, Murshidabad and North 24-Parganas having an average annual rainfall between 1400 mm and 1650 mm.

Sector – III: Comprising districts – Howrah and South 24-Parganas having an average annual rainfall – between 1650 mm and 1900 mm.

5.2.6 Durgapur Barrage

Damodar Valley Corporation (DVC) was set up in July, 1948 under the Damodar Valley Corporation Act No. XIV of 1948 with the broad objective of unified development of the Damodar River Basin. The principal functions of this multipurpose development are flood control, irrigation, generation, transmission and distribution of electric power. The main subsidiary activities include water supply, soil conservation, navigation and promotion of public health.

The principal purpose of the DVC dam system was reduction of flood damage. Dams ultimately were planned for multipurpose use including irrigation hydel/thermal generation and navigation. Originally seven (7) dams were planned including two (2) on the Damodar River (Panchet & Aiyer), three (3) on the Bokaro River (Maithan, Balpahari and Tilaiya) and one (1) each on the Knoar River (Konar) and the Bokaro River (Bokaro).

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Durgapur Barrage over the Damodar River has two main canal systems and was completed in 1957. The two main canals take off, from either bank and are known as Left Bank Main Canal and Right Bank Main Canal. The Right bank Main Canal (RBMC) is for irrigation in the districts of Bankura and Left Bank Main Canal (LBMC) is for irrigation in the districts of Burdwan, Hooghly and Howrah as also for navigation from Durgapur to Calcutta. Following are the hydrological features of Durgapur barrage¹:

Catchment Area	:	19547 sq. Km. (Damodar – Barakar basin)
Design Discharge	:	15574 cumecs
Pond level/Full Reservoir level	:	64.48 m amsl
Minimum Drawdown Level	:	63.4 m amsl
Canal Discharge	:	Left – 260 cumecs Right – 64 cumecs
Irrigable Area	:	Kharif – 3,93,768 hectare Rabi – 22,258 hectare
Maximum Irrigation	:	Kharif – 3,33,200 hectare Rabi – 18,450 hectare Boro – 69,790 hectare

5.2.7 History of DVC Canal

Out of the statutory responsibilities of the DVC is also promotion and control of navigation. In the beginning, however, no provision was made in the unified development scheme for navigation but it was considered that navigation could be added later on when found justified by the results of a traffic survey. Subsequently, when the valley took rapid strides in industrialization, especially in and around Durgapur, and the production of coal increased in the coal mines of West Bengal, the need for an alternative means of transport was felt not only to carry the finished goods and coal to the Port of Calcutta but also to relieve to some extent, the traffic congestion experienced by G.T. Road and Eastern Railways. Then, it was found that navigation could be operated economically and it might stimulate further industrial expansion of the valley by providing a cheap means of transport.

¹ Irrigation and Waterway Department website, Government of West Bengal (<http://wbiwd.gov.in>)

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The irrigation-cum-navigation canal of the DVC, known as LBMC, takes off from the head works at Durgapur Barrage and runs approximately 130 Km from West to East and falls into the river Kunti at about 6 Km above its confluence with the river Hooghly near Tribeni. It was designed for the twin purpose of serving the need for irrigation in the districts of Burdwan and Hooghly and for providing an alternative and cheap transport/route from Durgapur top Calcutta for transportation of coal and other industrial products to and from Durgapur region. On full development of the canal, it was expected to carry an annual cargo of about 2 million tonnes.

Various studies were done in the past on the DVC canals as follows:

- a) In 1956, DVC constituted the Navigation Advisory Committee which published a report in the month of June 1958. The report deals with various aspects of the problems relating to navigation.
- b) In 1959, another committee was set-up by DVC to look into the question of augmentation of water resources to DVC. The report submitted by the committee includes an assessment of the loss of water in transmission and lock operation during non-monsoon, November-June, attributable to navigation.
- c) In 1977, Govt. of India set up a committee of experts to study the situation relating to DVC Canals and suggested measures to open inland water traffic in the DVC system.
- d) In 1981, Mr. Depleix, a Dutch expert on a UNESCO_IWT assignment, inspected the DVC canal and submitted a report on its suitability for navigation.
- e) In 1982, CIWTC engaged M/s Consulting Engg. Services, New Delhi for preparing a comprehensive feasibility report on the navigational canal including the viability and economics of operation.
- f) Techno-Economic Feasibility Study for the Development of Navigation through Damodar Valley Corporation Canal between Calcutta and Durgapur via National Waterway – 1, prepared by WAPCOS, appointed by Inland Waterway Authority of India (IWAI).

Gist of findings of past studies, listed above, for renovation of Navigation in DVC Canal is as follows:

- a) Adequate quantity of water is to be ensured for Navigation purposes and current short fall, particularly during non-monsoon season to be replenished, by construction of additional conservation capacity in the system or by raising conservation storage levels of the existing dams.

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- b) The canal should be lined throughout its length upto outfall point to minimise en-route losses of water and protection of canal slope.
- c) All existing structures such as locks, gates and bridges etc. are to be thoroughly reviewed for modification/repairs as the case may be.
- d) Programme for regular de-siltation of the canal should be established.
- e) Provision of navigational aids (both day and night) along the canal and reliable communication system need to be established.
- f) Safety of operation and overall reliability of the transport system are to be ensured.
- g) A suitable designated agency is to be established for effective operation and maintenance of the system.
- h) Provision of self-propelled vessels should be made.
- i) Implementation of mechanized locking system should be explored.

Navigational Operations: Trials in the Past

- a) During September 1963, M/s India Shipping Co. carried out a trial run. In the same year M/s Fravsen & Co. Calcutta carried oversize precipitators for Heavy Engineering Corporation through this canal from Calcutta to Durgapur, which could not be transported either through rail or road.
- b) M/s Hindustan Shipping Co. Ltd. was entrusted with cargo operation of the canal for about 10 years with effect from 18.10.65. The firm could only carry 65 tonnes of cargo from October, 1965 to April 1966. They discontinued the operation later on 01.08.67.
- c) In 1971-72, Central Inland Water Transport Corporation (CIWTC) Ltd. tried to organise a water transport service using their fleet and carried 3200 MT of cargo for Indian Oil Corporation (IOC), Durgapur Chemicals and Calcutta Port Trust etc. CIWTC did not operate their services any farther through this canal.
- d) In 1974, demands were made for carrying cargo by using country boats of 30 tonnes capacity, but the proposal was not found acceptable for various reasons.

Reasons of discontinuation of Navigation in DVC Canal:

- a) Too much time was taken for manual operation of lock gates (about 45 minutes). There are about 21 locks to be operated between Durgapur and Gopalpur.
- b) Non-availability of water and lack of coordination in release of water through LBMC.

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- c) Coal India did not show any interest in transportation of Coal.
- d) No such campaign or serious efforts were made to encourage users for transportation of materials through the canal.
- e) Transportation at night was not possible for not having lighting facility.
- f) No communication facility along the length of the Canal.

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6.0 ANALYSIS OF PRESENT STATE OF AFFAIRS

6.1 EXISTING DAMS, BARRAGES AND LOCKS

The details of existing locks encountered during survey are listed in **Table 3**.

Table 3: Details of Locks at the DVC canal

Sr. No.	Location	Chainage (Km)	Northing	Easting	Length (m)	Width (m)	Depth (m)	Top Level (m)
1.	DURGAPUR BARRAGE	0	2596675.3	531176.6	Not Applicable (Start point of Waterway)			
2.	RAJBANDH	10.012	2595537.1	540386	87.30	6.10	4.90	64.281
3.	PRAYAGPUR/PANAGARH	16.543	2592041.6	545814.5	106.80	6.40	4.90	64.841
4.	RANDIHA	23.57	2586222.1	549204.3	107.20	6.30	4.80	59.779
5.	KRISHNARAMPUR	26.778	2585171.6	552236	103.90	6.15	4.20	55.916
6.	PARAJ	37.29	2584974.3	561729.8	105.45	6.13	4.35	51.608
7.	PURSA	39.907	2584063.4	564152.9	108.39	6.84	4.80	53.481
8.	RAMPUR/GOLGRAM	43.146	2581800.07	566422.15	110.49	6.12	3.90	46.999
9.	DARBARPUR/DAYALPUR	47.675	2579557.64	570247.51	112.48	6.10	4.00	42.660
10.	MOHANPUR/SANKO	54.42	2577231.1	576528.5	110.89	6.15	4.20	39.385
11.	MATIAL/JAGUPUR	59.999	2574653.6	581417.19	102.48	6.14	4.60	40.449
12.	KANCHAN NAGAR	65.633	2570323.57	584437.15	102.30	6.10	3.80	34.479
13.	SADHARGHAT-BURDWAN	69.651	2567658.28	587290	110.45	6.18	2.40	36.191
14.	CHAITPUR	76.718	2565945.45	593911.54	112.68	6.10	4.80	28.358
15.	DAKSHIN GOPALPUR/BORSUL (ROOPNATH PALLI)	81.917	2563568.84	598260.05	87.80	7.20	3.65	31.224

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Sr. No.	Location	Chainage (Km)	Northing	Easting	Length (m)	Width (m)	Depth (m)	Top Level (m)
16.	PALLA COLONY	86.196	2562380.7	602330.5	107.60	6.18	3.20	29.106
17.	MAHESPUR/CHACHAI	87.979	2562047.9	604082.3	106.10	6.10	3.40	25.909
18.	NUDIPUR	97.874	2561658.8	613513.2	107.50	6.10	3.20	17.173
19.	BOINCHI	108.238	2558176.8	622562.8	86.46	6.15	4.20	19.492
20.	PANDUA	119.131	2552904.34	631733.71	112.35	6.10	4.56	10.582
21.	HOERA/MOGRA	126.164	2548966.9	637378.6	110.30	6.10	4.90	10.915
22.	DAKSHIN GOPALPUR	131.094	2546198.6	642271.6	112.50	7.20	3.90	6.261

6.2 EXISTING BRIDGES AND CROSSINGS

The existing bridges and crossing encountered during survey are listed in **Table 4**.

Table 4: Details of Existing Bridges and Crossings

Sl. No	Location	Chainage (Km)	Easting	Northing	Vertical clearance w.r.t. FSL (m)	Horizontal clearance (Distance between piers) (m)
1	NETAJI SUBHASH PALLY	0.61	2597706	532728	6	10
2	NETAJI SUBHASH PALLY	1.93	2597709	532709	Under Construction	
3	BHAIRABPUR	4.75	2596689	535310.2	10	18
4	SHOKNA	13.18	2594074	543275.2	5	12
5	PRAYAGPUR	16.43	2592087	545786.1	3	13
6	BHARATPUR		2589015	547232.2	8	10
7	SHALDANGA	23.43	2586921	548017.7	8	10
8	PARDAHA	28.27	2584651	553810.4	8	10

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Sl. No	Location	Chainage (Km)	Easting	Northing	Vertical clearance w.r.t. FSL (m)	Horizontal clearance (Distance between piers) (m)
9	BORACHATRA	31.09	2583193	556216	8	14
10	SANDIPUR	32.67	2583751	557634.2	8	14
11	PURSA	40.183	2583924	564396.3	5	8
12	SUJAPUR	40.59	2583239	565214.4	8	25
13	KHETURA	45.903	2580562	568804.5	10	14
14	URA-DALIMGARYA	51.319	2578107	573585.6	10	14
15	SASANGA	56.06	2576103	578260.1	8	10
16	NABABHAT	57.968	2575598	579628.7	Under Construction	
17	NALA	58.663	2575277	580243	4	6
18	KASIMPUR	61.49	2573884	582677.8	9	14
19	KANCHAN NAGAR	65.38	2570222	584698.2	8	8
20	ANJIR BAGAN	66.3	2569549	585328.8	8	8
21	SADHARGHAT-BURDWAN	68.82	2567757	587056.8	8	8
22	BECHARHAT	69.07	2567387	589023.8	4	5
23	PALLA	72.35	2567427	590537.8	8	8
24	PAMRA	74	2566976	592003.2	5	6
25	AMIRPUR	77.36	2565620	595064.8	8	13
26	BELNA	78.34	2565122	595920.6	3	12
27	DAKSHIN GOPALPUR	81.18	2563422	598519.2	3	3
28	PASCHIM PALLA	83.66	2562807	600665.2	10	15

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Sl. No	Location	Chainage (Km)	Easting	Northing	Vertical clearance w.r.t. FSL (m)	Horizontal clearance (Distance between piers) (m)
29	MAHESPUR	86.83	2562117	603717.2	10	15
30	CHANCHAI	87.56	2562146	604473.8	10	14
31	KANAI DANGA	88.77	2561926	605651.8	8	20
32	MAHESH DANGA	91.65	2561854	608474.7	5	5
33	KHANRO SARANI(JOLASAGAR)	94.05	2561494	610769.1	8	15
34	DILALPUR	96.854	2561832	612573	6	6
35	BAGILA (GODHIPUR)	97.28	2561701	613939.5	10	15
36	BAGILA (NUDIPUR)	97.78	2561963	614348.6	6	8
37	BAGILA	98.82	2561908	615330.8	10	15
38	DEBIPUR	102.85	2560173	618821.9	10	15
39	BOINCHI	108.214	2558169	622523.5	Attached with Lock gate	
40	CHAU BERA	109.63	2556924	625913.2	10	15
41	TINNA	114.21	2554845	628878.7	10	15
42	ILAMPUR	115.54	2554203	629522.4	3	3
43	MAHADEBPUR	115.76	2553785	630040.7	10	15
44	PANDUA (BHAJANPUR)	116.94	2553224	631048.3	10	5
45	PANDUA (CHANDANI MARKET)	117.8	2552852	631836.5	8	15
46	TANBA	121.48	2551094	635019.3	10	18
47	BAGANPARA (LOWKHA GHAT)	122.74	2550260	635971.4	3	6

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Sl. No	Location	Chainage (Km)	Easting	Northing	Vertical clearance w.r.t. FSL (m)	Horizontal clearance (Distance between piers) (m)
48	CHANPARAI	126.17	2547856	638285.5	10	20
51	DIGSUI	128.32	2546732	640162.5	8	15
52	KHALSI	131.42	2546237	641290.2	6	8
53	KUNTI GHAT	133.2	2546638	642992.8	5	25
54	KUNTI GHAT	133.56	2546305	644672.1	5	25
55	KUNTI GHAT	133.76	2546353	645029.4	12	20

It can be inferred from the above table that the maximum and minimum horizontal clearance is in the range of **25 m to 3 m**. Similarly the maximum and minimum vertical clearance is in the range of **12 m to 3 m** respectively.

6.3 EXISTING HIGH TENSION LINES

During the survey high tension lines are observed at certain chainages and the same is presented in the following **Table 5**.

Table 5: Details of High Tension Lines

Sr. No.	Location	Chainage (Km)	Easting	Northing	Vertical Clearance above FSL (m)
1	BANSKOPA	6.527	537049.2	2596453	15
2	BANSKOPA	6.593	537113.6	2596444	15
3	RAJBANDH	7.98	538481.8	2596227	15
4	SHOKNA	13.461	543463.6	2593980	15
5	BHARATPUR	20.284	547353.2	2588654	15

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Sr. No.	Location	Chainage (Km)	Easting	Northing	Vertical Clearance above FSL (m)
6	BANAGRAM	25.107	550656.5	2585714	20
7	MANIK BAZAR	36.122	560571.5	2584919	15
8	SUJAPUR	42.075	565740.6	2582611	15
9	ISUFABAD	62.695	582940.7	2572767	15
10	SADHARGHAT- BURDWAN	69.337	586996.6	2567772	30
11	PALLA COLONY	86.826	602920.4	2562196	25
12	TANBA	123.329	635256.5	2550811	20
13	DIGSUI	129.634	639951.4	2546847	15
14	KHALSI	131.529	641709	2546214	15
15	KHALSI	131.687	641868.5	2546208	15

6.4 HINDRANCES/ ENCROACHMENT/ ADDITIONAL FEATURES ALONG THE WATERWAY

Hindrances/encroachments for waterway are defined as any natural or manmade structure, which can cause obstruction or danger to navigation. In order to start navigation in the waterway, these structures are either to be removed or taken care adequately. No, major obstruction to the navigation were identified during reconnaissance survey in DVC Canal.

6.5 PROTECTED AREA – WILDLIFE, DEFENCE

The DVC canal is not passing through any protected area.

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6.6 ROAD AND RAIL INFRASTRUCTURE

DVC Canal is well connected with rail and road networks. Details of railway stations located within 5.0 Km radius of the waterway are presented in **Table 6** below:

Table 6: Railway Stations near DVC Canal

Sl. No.	Railway Station (within 5.0 Km radius)	Sl. No.	Railway Station (within 5.0 Km radius)
1.	Durgapur Railway Station	17.	Nimo Railway Station
2.	Rajbandh Railway Station	18.	Masagram Railway Station
3.	Panagarh Railway Station	19.	Nabagram Railway Station
4.	Mankar Railway Station	20.	Memari Railway Station
5.	Paraj Railway Station	21.	Bagila Railway Station
6.	Galsi Railway Station	22.	Debipur Railway Station
7.	Ishan Chandi Halt Station	23.	Bainchigram Railway Station
8.	Khana Junction	24.	Simlagarh Railway Station
9.	Talit Railway Station	25.	Pundooah Railway Station
10.	Bardhaman Junction Railway Station	26.	Khayan Railway Station
11.	Gangpur Railway Station	27.	Talandu Railway Station
12.	Shaktigarh Railway Station	28.	Magra Railway Station
13.	Palsit Railway Station	29.	Tribeni Railway Station
14.	Palla Road Railway Station	30.	Kuntighat Railway Station
15.	Chanchai Railway Station	31.	Dumurdaha Railway Station
16.	Rasulpur Railway Station	32.	Khamargachi Railway Station

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Details of major roads connecting to the waterway are provided in **Table 7**:

Table 7: Major Roads connected to DVC Canal

National/State Highway	Other Major Roads
a) National Highway 2	a) Shibpur Road
b) State Highway 1	b) Morgram Panagarh Highway
c) State Highway 6	c) Mankar Road
d) State Highway 7	d) Kalna Road
e) State Highway 8	e) Maldangna Memari Road
f) State Highway 9	
g) State Highway 13	
h) State Highway 14	
i) State Highway 15	

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7.0 RECONNAISSANCE SURVEY

The consultant done the reconnaissance survey as required for the feasibility studies and detailed as per TOR, as follows

- Single line longitudinal survey (Bathymetric survey or Topographic survey) in the deepest depths or lowest height lands, with the help of DGPS using Automatic Hydrographic Survey System.
- Horizontal and vertical clearances above High Flood Level of bridges, aqueducts, electric lines, telephone lines, pipe lines, cables en-route are to be charted.
- Details about Barrages and Dams en-route are also to be reported.
- Topographical features of the Inland Waterways are to be reported.
- Typical physical features along the alignment i.e. land use pattern are to be reported
- Stretches having year round flow and critical depth for navigational purpose are to be reported.
- Preliminary Traffic on the Inland Waterways are to be identified.
- Inventory of major aspects including Inland Waterway width, Terrain, Bridges and structures across the Inland Waterways (Type, size and location) will be reported.
- Urban areas (location extent) are to be reported.
- Geologically sensitive areas environmental features are to be reported
- Hydrological features are to be reported.
- Critical areas requiring detailed investigations are to be reported.
- Requirements for carrying out supplementary investigations are to be reported.
- Visual inspection of Soil (textural classifications) are to be reported
- Major Drainage conditions are to be reported.
- Type and extent of existing utility services along the alignment are to be identified.
- Identification of various agencies of the govt. from whom the concerned project clearances for implementation are to be sought.

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7.1 DETAIL METHODOLOGY FOR SURVEY

The surveyor deployed a team of personnel to carry out the reconnaissance survey; the detailed methodology is described in following sub sections;

7.1.1 Resources Deployed for Survey

Key Personal:

- Project in-charge (office): 1 no.
- Senior Surveyor: 2 nos.
- Survey Engineer: 2 nos.
- Logistics Co-ordinator: 1 no.

Survey Equipment and Software:

Table 8: List of Equipment Mobilised for Survey

Survey Equipment/Systems Used for the Data Acquisition	
Equipment/System	Description/Make/Model
Software / Navigation	Hypack 2015 computer acquisition and data logging Software
Positioning System	Trimble SPS 351(DGPS) & 855 RTK DGPS (One Base & Two Rover)
Single beam Echo Sounder	Sonar Mite
Tidal Observation	Valeport Automatic Tide Gauge/ Manual Tide Gauge
Levelling	Sokkia B40 Auto Level
Total Station	Trimble TS 635
Data Acquisition System	Dell laptop/ HP laptop

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Survey Vessel:

Considering the geographical and topographical feature, length of river, shallow and dry patch, inaccessibility to survey area, due to insufficient water for regular boat, inflatable Zodiac Boat "Aqua Marina 2" was used to carry out bathymetric survey.. The names and specifications of the survey boats are provided in **Table 9** as below:

Table 9: Details of Survey Boats Used

Name of the Boat	Length (m)	Width (m)	Draft (m)
Aqua Marina - 1	3.0	1.5	0.020
Aqua Marina – 2	2.5	1.29	0.020

7.1.2 Geodetic Parameters

The geodetic parameters used for survey are as follows:-

Global Positioning System Geodetic Parameters						
Datum:	World Geodetic System 1984 (WGS84)					
Spheroid:	World Geodetic System 1984					
Semi major axis:	a = 6 378 137.000 m					
Inverse Flattening:	$1/f = 298.257\ 223\ 563$					
Local Datum Geodetic Parameters						
Datum:	World Geodetic System 1984 (WGS84)					
Spheroid:	World Geodetic System 1984					
Semi major axis:	a = 6 378 137.000 m					
Inverse Flattening:	$1/f = 298.257\ 223\ 563$					
Datum Transformation Parameters from WGS84 to WGS84						
Shift dX:	0.0 m	Rotation rX:	0.000 arcsec	Delta Scale :	0.0000 ppm	
Shift dY:	0.0 m	Rotation rY:	0.000 arcsec			
Shift dZ:	0.0 m	Rotation rZ:	0.000 arcsec			
Local Projection and Grid Parameters ²⁾						

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Map Projection:	Universal Transverse Mercator
Grid System:	UTM Zone 45 N
Central Meridian:	087° 00' 00" West
Latitude of Origin:	0° 00' 00" North
False Easting:	500 000 m
False Northing:	0.0000
Scale factor on Central Meridian:	0.9996
Units:	metres

Notes:

1. Hypack navigation software always uses WGS84 geodetic parameters as a primary datum for any geodetic calculations.
2. This is the right-handed coordinate frame rotation convention used by the Hypack navigation software.

7.1.3 Survey Data Processing

The survey data was logged in Hypack On-line Survey Software, and was processed using the Hypack Processing, AUTOCAD and Spectra Precision Survey Office. The data was processed, checked and verified to ensure good quality data. Single Beam (SB) Editor was used for the automated and manual processing of logged data sets.

Navigation and Positioning

The DGPS Receiver Antenna was mounted exactly above the echo sounder transducer. The echo sounder transducer was mounted on the side of the boat, without any offset to ensure accuracy in the position of soundings. The bar-checks were carried out before/after each sounding session. Transducer draft was measured and recorded, and the same was used while processing. On all such occasions the error observed was zero or near zero. Therefore, no corrections were necessary.

Bathymetry

Hypack Processing suite was used to import quality check and process the navigation, bathymetry and tidal data. The data was filtered, cleaned, and combined to create geographically positioned bathymetric data set.

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7.2 DESCRIPTION OF BENCH MARKS/ REFERENCE LEVELS

Temporary bench marks were installed by the surveyor at various locations along the DVC Canal waterway. The details of temporary bench marks are provided as shown in **Table 10**.

Table 10: Details of Temporary Bench Marks

TBM	Latitude	Longitude	Easting	Northing	Chainage (Km)	Ht above FSL (m)
WGS84 Datum , UTM Projection, CM 087° East, Zone 45 North						
TBM 1	23°01'10.045"	88°24'56.386"	645068.791	2546374.560	2.000	10.629
TBM 2	23°01'07.034"	88°23'16.118"	642215.136	2546254.635	5.000	12.690
TBM 3	23°02'38.822"	88°20'26.319"	637355.328	2549032.638	10.790	15.170
TBM 4	23°04'46.482"	88°17'10.707"	631753.076	2552908.944	17.823	16.385
TBM 5	23°07'40.261"	88°11'49.288"	622563.264	2558175.782	28.716	18.881
TBM 6	23°09'37.395"	88°06'30.308"	613462.727	2561706.481	39.080	22.183
TBM 7	23°09'51.195"	88°01'00.559"	604082.767	2562062.493	48.975	23.161
TBM 8	23°10'01.894"	88°00'00.472"	602371.903	2562379.687	50.758	23.386
TBM 9	23°10'40.177"	87°57'34.987"	598227.310	2563529.176	55.037	29.470
TBM 10	23°11'58.856"	87°55'04.141"	593923.148	2565921.186	60.236	26.449
TBM 11	23°12'56.935"	87°51'11.484"	587298.840	2567667.010	67.303	30.827
TBM 12	23°14'23.530"	87°49'30.690"	584418.761	2570313.515	71.321	35.792
TBM 13	23°16'46.733"	87°47'46.609"	581436.765	2574700.943	76.955	39.809
TBM 14	23°18'09.201"	87°44'53.953"	576518.520	2577210.921	82.523	41.386
TBM 15	23°19'26.070"	87°41'13.357"	570241.320	2579543.790	89.279	42.131
TBM 16	23°20'39.303"	87°38'59.125"	566419.014	2581778.314	93.808	43.508

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TBM	Latitude	Longitude	Easting	Northing	Chainage (Km)	Ht above FSL (m)
WGS84 Datum , UTM Projection, CM 087° East, Zone 45 North						
TBM 17	23°21'53.653"	87°37'40.401"	564173.650	2584054.884	97.047	43.046
TBM 18	23°22'24.477"	87°36'14.345"	561726.461	2584992.384	99.664	49.232
TBM 19	23°22'32.252"	87°30'40.864"	552258.401	2585194.932	110.176	52.751
TBM 20	23°23'04.825"	87°28'53.868"	549217.595	2586186.177	113.384	57.323
TBM 21	23°26'15.843"	87°26'53.558"	545784.163	2592049.374	120.411	59.373
TBM 22	23°28'10.353"	87°23'44.316"	540404.753	2595555.105	126.922	60.011
TBM 23	23°28'52.447"	87°18'21.860"	531254.543	2596827.261	136.825	60.260

7.3 LEVELLING OF TEMPORARY TIDE POLES

During the reconnaissance survey, 23 temporary bench marks were established at every 20 Km throughout the length of waterway. The value of the zero of the TBMs was computed using Sokkia Automatic Level / Trimble Total Station. The detailed levelling results for each TBM are provided in **Annexure 1**.

7.4 HYDROGRAPHIC SURVEY

Single line longitudinal survey (Bathymetric survey or Topographic survey) in the deepest depths or lowest height lands, with the help of DGPS using Automatic Hydrographic Survey System has been carried out for the length of waterway as shown in **Table 11**. Total length of the waterway is considered as 136.0 Km from Durgapur Barrage to confluence point of Kunti River with Hooghly River near Tribeni. In view of this the feasibility study for the DVC canal is carried out along 136.0 Km of stretch from Durgapur to Tribeni (i.e. DVC Canal length = 130 Km + stretch of Kunti River from its confluence with DVC canal upto its confluence with Hooghly River = 6.0 Km).

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Table 11: Survey Length of Waterway

Total Surveyed Length of Waterway (Km)	Length of Bathymetric Survey (Km)	Length of Topographic Survey (Km)
136	118.93	17.07

7.5 WATER DEPTH

Water depths along the waterway have been observed during Reconnaissance survey as per the scope of works and requirement for feasibility studies. Single line longitudinal bathymetric survey has been carried out for obtaining the water depth along the deepest route of waterway. As observed during reconnaissance survey, maximum stretch of the waterway (about <90%) had water depth of less than 1 m; however the channel was designed for a minimum supply depth of 2.4 m. In view of the above, no reduction has been applied to the observed depths and the same is used for the analysis. The observed/instant depth at every 10 Km interval is presented in **Table 12**. The kilometre and stretch wise minimum and maximum water depths are also furnished along with Digital Data and Charts respectively. Detailed observed/instant water depths along the DVC canal is also presented in **Annexure 2**.

Table 12: Water Depth along the Waterway

Chainage (Km)	Draft Variation		Length of Canal (Km) with following draft			
	Max. Available (m)	Min. Available (m)	<1m	1.0 -1.5m	1.5 -2.0 m	>2.0m
0 – 10	1.08	0.33	8.73	1.27	-	-
10 – 20	1.09	0.34	8.57	1.43	-	-
20 – 30	0.66	0.20	10.00	-	-	-
30 – 40	1.10	0.33	8.74	1.26	-	-
40 – 50	1.09	0.33	8.00	2.00	-	-
50 – 60	0.48	0.31	10.00	-	-	-
60 – 70	0.49	0.33	10.00	-	-	-

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Chainage (Km)	Draft Variation		Length of Canal (Km) with following draft			
	Max. Available (m)	Min. Available (m)	<1m	1.0 -1.5m	1.5 -2.0 m	>2.0m
70 – 80	0.49	0.30	10.00	-	-	-
80 – 90	0.76	0.20	10.00	-	-	-
90 – 100	1.02	0.20	9.81	0.19	-	-
100 – 110	1.06	0.20	9.26	0.74	-	-
110 – 120	0.94	0.23	10.00	-	-	-
120 – 130	1.23	0.20	9.30	0.70	-	-
130 – 136	4.95	0.20	1.60	1.23	1.23	1.93
Total			124.01	8.82	1.23	1.93

7.6 SOIL CHARACTERISTICS

On the basis of visual assessment done during longitudinal survey, the characteristics of soil on both banks of the waterway are provided in **Table 13** below.

Table 13: Soil Characteristics along Waterway banks

S. No.	Chainage (Km)	Latitude (N)	Longitude (E)	Easting (m)	Northing (m)	Analysis
1.	0.0	23°28'47.588"	87°18'18.892"	531170.669	2596677.667	Red soil
2.	10.0	23°28'37.514"	87°22'00.943"	537470.125	2596382.568	Red soil
3.	20.0	23°26'04.450"	87°27'02.498"	546038.940	2591699.828	Red soil
4.	30.0	23°22'29.742"	87°30'45.957"	552403.254	2585118.240	Red soil
5.	40.0	23°22'24.790"	87°36'02.651"	561394.442	2585000.632	Red soil
6.	50.0	23°19'41.115"	87°40'53.904"	569686.664	2580003.867	Red soil

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S. No.	Chainage (Km)	Latitude (N)	Longitude (E)	Easting (m)	Northing (m)	Analysis
7.	60.0	23°17'28.287"	87°46'09.816"	578680.080	2575963.976	Red soil
8.	70.0	23°13'55.610"	87°50'03.947"	585368.812	2569460.289	Red soil
9.	80.0	23°11'55.559"	87°55'10.779"	594112.478	2565820.986	Red soil
10.	90.0	23°09'55.156"	88°00'24.144"	603046.454	2562177.107	Red soil
11.	100.0	23°09'41.758"	88°06'02.437"	612669.140	2561834.652	Red soil
12.	110.0	23°07'57.330"	88°11'08.924"	621410.849	2558691.380	Red soil
13.	120.0	23°05'20.581"	88°16'03.635"	629835.412	2553940.973	Red soil
14.	130.0	23°02'14.118"	88°20'40.319"	637760.776	2548276.512	Red soil
15.	136.0	23°00'32.323"	88°24'55.207"	645046.434	2545214.053	Soft clay

7.7 CHARACTERISTICS OF WATER

DVC Canal carries discharges from Damodar River to Kunti River through the head regulator located on the left bank of Durgapur Barrage. Numerous nallas and drains adds up urban discharge during its course. In addition to it, the canal also carries silt, which causes siltation of lock gates and canal bed.

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8.0 MARKET ANALYSIS

Preliminary market analysis has been done on the basis of reconnaissance survey, Consultants site visit, available secondary informations and published literature at the feasibility stage of the project.

8.1 LAND USE PATTERN

Land use pattern along the waterway be characterized as Agricultural, Residential, Agricultural/Residential and Industrial as presented in **Table 14**.

Table 14: Land Use Pattern along Waterway

Agricultural		Residential		Agricultural/ Residential		Industrial	
Length (Km)	%	Length (Km)	%	Length (Km)	%	Length (Km)	%
9.10	7%	7.8	6%	110.5	85%	2.6	2%

8.2 CROPS/ AGRICULTURE PRODUCTS

The study stretch passes through the following districts:

- Bardhaman
- Hooghly

The details of Cropping System of the project districts are as follows:

Bardhaman: Bardhaman is the only district in the state of West Bengal that is fortunate both in industry and agriculture. On an average about 58 percent of the total population belongs to the agricultural population while the non-agricultural sector accounts for the remaining 42 percent.

The eastern, northern, southern and central areas of the district are extensively cultivated but the soil of the western portion being of extreme lateritic type is unfit for cultivation except in the narrow valleys and depressions having rich soil and good moisture. The cultivation in the district has

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improved since 1953 with the implementation of the irrigation projects undertaken by the Damodar Valley Corporation. Up to 1953 the cultivation was entirely dependent on the monsoon, and irrigation facilities were rather inadequate and more or less primitive. The position has since been changed and an all-round agricultural development has become possible. Though agriculture is largely regulated by rainfall as in the other districts of the state, the developing irrigation system has been very helpful in minimizing the effects of the vagaries of nature.

Rice is the most important crop of the district and in the alluvial plains to the east little else is grown. The rice grown with its numerous varieties can broadly be grouped under the three primary classes distinguished from one another by distinct characteristics and there are: The Aus or autumn, the Aman or winter and the Boro or the summer rice. Paddy covers maximum of the gross cropped area. Among commercial crops Jute, Mesta and Sugarcane, potato, oil seeds are cultivated in marginal area

Table 15: Bardhaman district-Average Production and Productivity of major crops (2004-08)

Name of Crop	Kharif		Rabi		Summer		Total	
	Production ('000 t)	Productivity (kg/ha)	Production ('000 t)	Productivity (kg/ha)	Production ('000 t)	Productivity (kg/ha)	Production ('000 t)	Productivity (kg/ha)
Major Field Crop								
Rice	48.1	3069	1231.1	2953	642.5	3129	1921.7	3021
Wheat	-	-	6.7	2313	-	-	6.7	2313
Pulses	-	-	1.2	849	-	-	1.2	849
Oilseeds	-	-	43.1	850	-	-	43.1	850
Jute	233.0	3019	-	-	-	-	233.0	3019
Potato	-	-	1058.0	21674	-	-	1058.0	21674

Source: Agriculture Contingency Plan

Hooghly: Hooghly is an agriculturally prosperous district of West Bengal. The land use pattern of the district demonstrates a high proportion of net sown area as percentage of total reported area. About 70% of its population depend on agriculture and represents an important and remarkable place in the field of agriculture in West Bengal.

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Due to massive population explosion and continuous increase of pressure on land, the farmers of this district are engaged in cultivation of all the major crops utilising the fullest potentiality of land and natural resources. Though rice is the prime crop of the district, the agricultural economy largely depends on potato, jute, vegetables and orchard and the cropping intensity of the district has been escalated to 220%.

Vegetable is a price crop in the blocks of Haripal, Singur, Chanditala, Polba and Dhaniakhali being grown in a relay system throughout the year. Though potato is cultivated in all the blocks of this district in Dhaniakhali, Arambagh, Goghat, Pursurah, Haripal, Polba-Dadpur, Tarakeswar, Pandua and Singur contributed much of its production of this district.

Table 16: Hooghly district-Average Production and Productivity of major crops (2004-09)

Name of Crop	Kharif		Rabi		Summer		Total	
	Production ('000 t)	Productivity (kg/ha)	Production ('000 t)	Productivity (kg/ha)	Production ('000 t)	Productivity (kg/ha)	Production ('000 t)	Productivity (kg/ha)
Major Field Crop								
Rice	19.24	2665	16.83	2712	304.72	2953	340.79	8330
Potato	-	-	1960.34	20889	-	-	1960.34	20889
Wheat	-	-	1.38	2110	-	-	1.38	2110
Oilseeds	-	-	40.86	1127	-	-	40.86	1127
Pulses	-	-	1.278	758	-	-	1.278	758
Maize	0.46	2531	-	-	-	-	0.46	2531

Source: Agriculture Contingency Plan

8.3 AVAILABILITY OF CONSTRUCTION MATERIAL

Major construction material available along the DVC Canal is Bricks. Some brick kilns are located along the waterways which uses clay deposits along the banks for this.

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8.4 EXISTING INDUSTRIES ALONG WATERWAY

Major Industries located along the DVC canal are as follows:

- a) Durgapur Thermal Power Station;
- b) Durgapur Steel Plant;
- c) Alloy Steels Plant;
- d) Durgapur Projects Ltd.
- e) Mining and Allied Machinery Corporation;
- f) Alstom Power Boilers Ltd.;
- g) Hindustan Fertilisers Corporation;
- h) Philips Carbon Black Ltd.;
- i) Sankey Wheels;
- j) Bharat Ophthalmic Glass Ltd;
- k) Durgapur Cement Ltd.(now Birla Cement);
- l) Graphite India Ltd.;
- m) Durgapur Chemicals Ltd.;
- n) Ispat Forgings;
- o) Other small industries...

8.5 EXISTING JETTIES AND TERMINALS

Though the DVC canal was designed as irrigation cum navigation canal, no Jetties and terminals are located along it

8.6 PRELIMINARY TRAFFIC IDENTIFIED

Water borne traffic played an important role in the state of West Bengal or for that matter entire North East part of the country upto the beginning of 20th century as road and other transport network were not established. Industrial requirements like imported coal used to be the main traffic, while return cargo were products like coal, steel, coir etc. However, gradually IWT services declined in view of development of road/rail system in that area and also as movement of vessels became difficult due to non-availability of water, hindrances in operation of vessels due to increase in population around the canals, rivers, siltation in the canal and river demand for use of canals for other purposes etc.

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I.W.T. services utilising the DVC canal would mainly depend on commodities carried between Raniganj/Durgapur and Calcutta-Howrah-Haldia areas. The waterway passes through important and comparatively developed districts in respect of industrial production as well as major industries which has a high demand for bulk material transports. Based on the available data and records, the major components of traffic have been identified as follows:

- a) Timber and Wood Products,
- b) Building Materials,
- c) Edible Oils and Food Products,
- d) Household Goods and Utensils,
- e) Drugs and Chemicals,
- f) Kerosene and Furnace Oils,
- g) Tar and Chemicals,
- h) Agricultural Products
- i) Sand.

DVC canal was designed to carry an annual cargo of about 2 million tonnes.

8.7 EXISTING CARGO MOVEMENT

The condition of canal as described in the earlier chapters clearly indicates that the canal is presently not navigable specially from Gopalpur to Durgapur. However, the stretch from Gopalpur and Calcutta via Kunti, Hooghly is navigable.

Inland water Transport services along the DVC canal mainly depend on commodities carried between Raniganj-Durgapur-Calcutta-Howrah areas. The possibility of the goods originating in Raniganj-Durgapur to be carried beyond Calcutta-Howrah also exists. It is also possible that some goods coming to Calcutta by the IWT through National Waterway No. 1 and National Water No. 2 could use this route to Durgapur.

8.8 PROMINENT PLACES ALONG THE WATERWAYS

Durgapur: Durgapur is a city in the Burdwan District, in the state of West Bengal, India. Durgapur is the third largest city in West Bengal in terms of both area and population. Durgapur is the second planned city of India after Chandigarh and has the only operational dry (inland) port in Eastern India.

Durgapur the fastest emerging city of West Bengal, India is growing to become one of the mega city of eastern India. Durgapur popularly known as the Steel city of eastern India is varying its image and emerging also in the fields of medical and education to become one of the multipurpose city of India. Durgapur has a huge base of industries with two key steel plants Durgapur Steel Plant and Alloy Steel Plant with their glowing township.

Durgapur is on the bank of the Damodar River, just before it enters the alluvial plains of Bengal. The topography is undulating. The coal-bearing area of the Raniganj coalfields lies just beyond Durgapur; some parts intrude into the area. The area was deeply forested till recent times, and some streaks of the original forests are still there.

Two mighty rivers border it on the north and the south. The Ajay River flows past unhindered in the north; the Damodar River on the south has two obstacles in its path – first one is the Anderson Weir at Randiha constructed in 1932 and the second one is the massive 692-metre long Durgapur Barrage at Durgapur, constructed in 1955 and controlled by Damodar Valley Corporation. Two rivulets, Singaran and Tamla, flow through the area and join the Damodar River. Two other rivulets, Kunur and Tumuni, join the Ajay River.

Bardhaman: Bardhaman is a city of West Bengal state in eastern India. It is the headquarters of Bardhaman district, having become a district capital during the period of British rule. Burdwan, an alternative name for the city, has remained in use since that period. The history of Burdwan is known from about 5000 BC (the Mesolithic or Late Stone Age).[citation needed] The origin of this name dates back to the 6th century BCE and is ascribed to Vardhaman Swami or Mahavira (599-527 BCE), the 24th Tirthankara of Jainism, who spent some time in Astikagrama, according to the Jain scripture of Kalpasutra. This place was renamed as Vardhamana in his honour.

Burdwan has a multi-cultural heritage. The deuls (temples of rekha type) found here are reminiscent of Bengali Hindu architecture. The old temples bear signs of Hinduism, mostly belonging to the Sakta and Vaishnava followers. The Kankaleswari Kali is also located in the city of Burdwan.

Burdwan experienced and survived numerous violent conflicts, mainly due to Mughal, Pashtun and Maratha invaders. The city of Bardhaman was visited by notables of the Delhi Sultanate from Raja Todarmal to Daud Karnani, from Sher Afghan and Kutub-ud-din to Ajimuswan to the future Mughal emperor Shah Jahan while he was still a rebel. Bardhaman also has a number of Bengali Christians, and although they are a minority, there are many churches in the city.

8.9 AVAILABILITY OF PASSENGER FERRY SERVICES

No passenger ferry services are available along the DVC canal.

However, the DVC waterway has a potential to serve population of about 10 million, living along its hinterland.

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9.0 OBSERVATIONS AND INFERENCES

On the basis of reconnaissance survey as well as primary and secondary data collected from IWAI, central and state government departments and other stakeholders, following observations and inferences are made on the DVC Canal waterway.

9.1 WATERWAY

Damodar Valley Corporation (DVC) constructed the irrigation-cum navigation canal known as Left Bank Main Canal (LBMC) or simply DVC Canal in 1957. It was designed for the twin purpose of serving the need for the irrigation in the districts of Burdwan and Hooghly of the State of West Bengal and for providing an alternative and cheap transport/route from Durgapur to Calcutta for transportation of coal and other industrial products to and from Durgapur region.

DVC canal takes off from the head works to Durgapur Barrage and runs approximately 130 Km from West to East and falls into river Kunti at about 6 Kkm above its confluence with the river Hooghly near Tribeni. Total stretch of the waterway is 136 Km from Durgapur Barrage to the confluence of Kunti river with Hooghly river. Of the total canal stretch of 130 Km, 85 Km (Durgapur to Palla) was designed for navigation and irrigation and 45 Km (Palla to Gopalpur) was designed for navigation only.

The canal, as designed, has a bed width of 52 meters at the head which reduces to 30 m at Palla and thereafter from Palla to Hooghly river has a bed width of 18.0 m. The upper stretch of the canal in Durgapur to Palla was designed for a discharge of about 260 m³/sec and the tail end i.e. Palla to Gopalpur for about 85 m³/sec. The canal was to have a minimum supply depth of about 2.4 m all around the year to maintain navigation by river crafts with requisite drafts.

9.2 LEAST AVAILABLE DEPTH (LAD)

Waterway stretch available for least available depth (LAD) of <1.0 m, 1.0 m to 1.5 m, 1.5 m to 2.0 m and >2.0 m for DVC Canal on is presented in **Table 17**.

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Table 17: Waterway Length with Different LAD

Surveyed Length (Km)	Length with Bathymetric Survey (Km)	Max. Draft (m)	Min. Draft (m)	< 1.0 m		1.0 – 1.5 m		1.5 – 2.0 m		> 2.0 m	
				Length (Km)	%	Length (Km)	%	Length (Km)	%	Length (Km)	%
Durgapur to Palla (DVC Canal with varying bed width from 52 m to 30 m)											
85.0	74.16	1.10	0.20	79.04	93%	5.96	7%	Not Available			
Palla to Gopalpur (DVC Canal with uniform bed width of 18.3 m)											
45.0	38.77	1.23	0.02	43.37	96%	1.63	4%	Not Available			
Gopalpur to Tribeni (Kunti River)											
6.0	6.0	4.95	0.20	1.60	26.67	1.23	20.56	1.23	20.56	1.93	32.22

9.3 CROSS - STRUCTURES

During reconnaissance survey, details of cross-structures have been collected and their minimum horizontal and vertical clearance has been evaluated on the basis of visual assessment as shown in **Table 18** below. The detailed list of cross structures is provided in **Table 4** and **Table 5** respectively.

Table 18: Minimum Horizontal and Vertical Clearance along Waterways

Waterway Stretch	Length (Km)	Dams/ Barrages/Locks	Bridges/ Crossing	Min Ver. /Hor. Clearance (m)	High-Tension	Min Ver. Clearance (m)
Durgapur to Gopalpur	130	26	51	3/3	13	15
Gopalpur to Tribeni	6	-	4	5/8	2	15

Vertical clearance is with reference to the F.S.L.

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Horizontal Clearance is the minimum distance between the bridge piers, on the basis of visual assessment.

9.4 WATER AVAILABILITY

The water supply for the DVC canal comes from the Durgapur Barrage constructed over Damodar River which in turn depends upon the releases from Panchet and Maithon Dams located about 60 Km upstream of the Barrage.

It is seen that there is enough surplus water in the canal during monsoon period, however during non-monsoon period, canal is mostly dry. However, as detailed earlier, the canal is designed for a discharge of 260 cumecs.

9.5 CARGO/PASSENGER/TOURISM/RO-RO FACILITY

The condition of canal as described in the earlier chapters clearly indicates that the canal is presently not navigable particularly from Gopalpur to Durgapur. However, the stretch from Gopalpur and Culcutta via Kunti, Hooghly is navigable.

Inland water Transport services along the DVC canal mainly depend on commodities carried between Raniganj-Durgapur-Culcutta-Howrah areas. The possibility that the goods originating in Raniganj-Durgapur to be carried beyond Culcutta-Howrah also exists. It is also possible that some goods coming to Culcutta by the IWT through National Waterway No. 1 and National Water No. 2 could use this route to Durgapur.

9.6 SOCIAL AND LOCAL ASPECT

Water transport has long been recognized as the cheapest and important means of transport for both freight and passengers all over the world. The development of DVC Canal starting from Durgapur to Gopalpur in West Bengal would reduce the traffic congestion on road and railways and give enormous impetus for growth of number of Industries and village units of small scale industries in the Burdwan and Hooghly districts.

The increasing level of disastrous pollution due to automobile exhaust, slow rate of transport movement through heavily congested G.T. Road can be reduced by developing DVC Canal for

navigation. This could also conserve foreign exchange reserves by reducing the consumptions in petroleum products as well as high cost of transportation by road and rails.

9.7 SWOT ANALYSIS

SWOT analysis is a technique commonly used to assist in identifying strategic direction for an organization or practice. It helps to make an assessment of internal environment and scrutiny of external environment, with an objective to take maximum benefits by having an appropriate proposition. It is preferred for the present work as it yields useful information about the future viability of the considered inland waterway system. The predictive capabilities in the technique come about from the consideration of system's strengths and weaknesses in the context of the development of Inland Waterway System, which may present opportunities and threats.

The strengths and weaknesses of a system are determined by the internal elements, whereas external forces dictate opportunities and threats. Strengths can be defined as any available resource that can be used to improve its performance. Weaknesses are flaws/shortcomings of any system that may cause to lose a competitive advantage, efficiency or resources. Sometimes it is recommended to identify opportunities and threats first in order to more quickly ring to light the system's strengths and weaknesses. Many of the threats are based on weaknesses. Further, SWOT analysis helps in categorizing the key internal and external factors that are important to achieving the objective. With regards to assessing the feasibility of waterway for navigation, this exercise will help us identify the important factors to be considered while designing the future action for DPR study in Stage 2 and strategic plan for its development.

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		INTERNAL			
		STRENGTH	WEAKNESS		
P O S I T I V E		<ul style="list-style-type: none"> ➤ Commitment of Govt. of India for Developing Inland Waterways Sector. ➤ Connectivity to Major and Minor Ports ➤ Environmental friendly mode of Transport ➤ Increase in Infrastructure Facilities as alternative mode of transport. ➤ Comparatively high level of transport safety. ➤ Reliable services under predictable weather conditions. ➤ Low transport costs (per Km) for bulk shipments. ➤ Long term effective cost control measures (O&M). ➤ Capable of bringing down decongestion from the Road Transport and Rail network. ➤ Predesigned for navigation. ➤ Availability of locks for maintaining nautical continuity. ➤ Availability of major industries en-route, requiring transportation of national and international cargo. ➤ Connectivity with National Waterway No. 1 and 2 via. Calcutta. 	<ul style="list-style-type: none"> ➤ Huge Initial Investment ➤ High Maintenance Cost ➤ High tariff structure for Inland Transport. ➤ Limited knowledge of IWT among shippers. ➤ Dependence on inter-modality for door-to door services. ➤ Substantial cost differentials w.r.t other transports. ➤ Water level fluctuations having impacts on Ships Ballast /Loading conditions. ➤ Dredging capability of GoI is 16% of National requirement. ➤ Poor condition of lock walls and lock gates. ➤ Lack of navigational aids (both day and night) along the canal and communication system. ➤ Less inflow from Durgapur barrage. 	N E G A T I V E	
		<ul style="list-style-type: none"> ➤ Trigger new traffic in the hinterland ➤ Boost International and National trade of commodities. ➤ Improvement of the capacity/quality of the Infrastructure. ➤ Integration of Ports with Roads & Railways. ➤ Enhance inter-modality. ➤ Implementation of infrastructure links. ➤ Improved Supply-Demand logistic chains ➤ Creation of reliable employment for the people. 	<ul style="list-style-type: none"> ➤ Water Availability for navigation. ➤ Lack of Skilled Man-power. ➤ Environmental policy restrictions on transport infrastructure policies. ➤ Limited financial means. ➤ Fast growing economic sectors often road oriented: low IWT affinity. ➤ Priority of investments in road/ rail infrastructure as per the present scenario. ➤ Land Acquisition 		
		OPPORTUNITY	THREAT		
		EXTERNAL			

Figure 3: SWOT Analysis

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9.8 SUMMARY

The salient features of the feasibility study for 136 Km stretch of DVC Canal are:

- The national waterway of 136 Km of DVC was constructed as irrigation cum navigation canal, however, navigation is inoperative currently due to inadequate flow depth and water;
- Minimum vertical and horizontal clearance of existing cross-structures is 3 m and 3 m respectively;
- For the surveyed length of 136 Km, <1.0 m of LAD is available for 124.01 Km (91.18%) of stretch, 1.0 to 1.5 m of LAD is available for 8.82 Km (6.49%) of stretch, 1.5 m to 2.0 m LAD is available for 1.23 Km (0.91%) of stretch and >2.0 m of LAD is available for remaining 1.93 Km (1.42%) of stretch respectively, estimated on the basis of observed depth;
- Considering, its link with the National Waterway-1 and 2 via Calcutta and strategically important location to provide viable alternative to the rail and road routes connecting the major industrial hubs of Durgapur with the rest of country via Calcutta and Hooghly and geographical connection with the Bay of Bengal, DVC canal have huge economic potential for development as National Waterway;
- Programme for regular desiltation of the canal is to be prepared;
- Adequate quantity of water is to be ensured for navigation purpose and current shortfall, particularly during non-monsoon.

9.9 CRITICAL AREAS REQUIRING DETAILED INVESTIGATIONS

Critical areas along the waterway, requiring detailed investigations during Stage – II, are identified on the basis of draft availability, location of hindrances, areas requiring clearances etc . On the basis of above following critical areas are identified

Waterway	Length having <1.0 m draft	Waterway under Wildlife Protection Zone	Waterway under Defence Restricted Zone
DVC Canal	124.01	No	No

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9.10 SURVEY AND INVESTIGATIONS REQUIRED FOR STAGE – II STUDIES

Following survey and investigations are required to be done during Stage – II studies:

- a) Hydrographic and Hydro morphological Survey, as per TOR, comprising of:
 - i) Erection of bench mark pillars and water level gauges and observing reading.
 - ii) Detailed bathymetric and topographic survey.
 - iii) Current velocity and discharge measurement.
 - iv) Collection of water and bottom samples and testing.
 - v) Collection of topographical features.
- b) Traffic Survey.
- c) Geo-tech investigation on proposed locations for Jetties and Terminal structures.
- d) Environmental impact assessment (EIA).

9.11 WAY FORWARD: WATERWAY DEVELOPMENT

The Combining knowledge on the physical constraints, actual and future uses of the waterway, economic potential and needs, or absence thereof, allows the characterization of the waterway for development as a national waterway. The reconnaissance survey data collected with regard to physical constraints can be turned into cost to make the canal navigable. The potential of possible navigation in the stretches of inland waterway have been determined using LAD. Although several challenges do exist to make DVC canal as National waterway including, availability of water, repairing and maintenance of 22 lock gates, development of related infrastructure, but with respect to long-term economic interest of the nation the financial investment is advisable.

Economic Interest	Local	Regional	National	International
Financial Investment				
Low				
Moderate			DVC Canal	
High				
Very High				

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The techno-commercial viability of the DVC needs further investigations to establish as National Waterway in subsequent DPR phase.

Annexure 1: Temporary Bench Marks Levelling Results

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LEVELLING FROM TEMPORARY BENCH MARK 1 TO TIDE POLE

BS	FS	HI	RL	REMARKS
1.526		12.155	10.629	TBM 1
0.523	4.235	8.443	7.92	CP
	3.823		4.62	Tide pole

BS	FS	HI	RL	REMARKS
3.845		8.465	4.62	Tide pole
4.248	0.567	12.146	7.898	CP
	1.515		10.631	TBM 1

LEVELLING FROM TEMPORARY BENCH MARK 2 TO TIDE POLE

BS	FS	HI	RL	REMARKS
1.629		14.319	12.690	TBM2
0.43	1.672	13.077	12.647	CP
	4.469		8.608	Tide Pole

BS	FS	HI	RL	REMARKS
4.364		12.972	8.608	Tide pole
1.518	0.518	13.972	12.454	CP
	1.283		12.689	TBM2

LEVELLING FROM TEMPORARY BENCH MARK 3 TO TIDE POLE

BS	IS	FS	HI	RL	REMARKS
1.143			16.313	15.170	TBM 3
0.908		1.173	16.048	15.140	CP
	4.97			11.078	Tide pole 1
0.153		0.551	15.650	15.497	CP
1.057		4.752	11.955	10.898	CP
	2.893			9.062	Tide Pole 2
		0.764		11.191	CP

BS	IS	FS	HI	RL	REMARKS
0.773			11.964	11.191	CP
4.474		0.773	15.665	11.191	
1.132		0.173	16.624	15.492	
		1.458		15.166	TBM 3

LEVELLING FROM TEMPORARY BENCH MARK 4 TO TIDE POLE

BS	IS	FS	HI	RL	REMARKS
1.317			17.702	16.385	TBM 4
	1.314			16.388	
	5.035			12.667	Tide pole West
	1.276			16.426	
		6.605		11.097	Tide pole East

BS	IS	FS	HI	RL	REMARKS
6.57			17.667	11.097	CP
		1.291		16.376	TBM 4
6.57			17.667	11.097	CP
		1.291		16.376	TBM 4

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LEVELLING FROM TEMPORARY BENCH MARK 5 TO TIDE POLE

BS	IS	FS	HI	RL	REMARKS
1.287			20.168	18.881	TBM 5
	5.343			14.825	Tide pole West
		7.209		12.959	Tide pole East

BS	IS	FS	HI	RL	REMARKS
7.231			20.190	12.959	Tide pole East
		1.304		18.886	TBM 5

LEVELLING FROM TEMPORARY BENCH MARK 6 TO TIDE POLE

BS	IS	FS	HI	RL	REMARKS
1.402			23.585	22.183	TBM 6
	7.471			16.114	Tide pole East
	5.701			17.884	Tide pole West
		1.407		22.178	CP

BS	IS	FS	HI	RL	REMARKS
1.356			23.534	22.178	CP
		1.357		22.177	TBM 6

LEVELLING FROM TEMPORARY BENCH MARK 7 TO TIDE POLE

BS	IS	FS	HI	RL	REMARKS
1.828			24.989	23.161	TBM 7
	1.379			23.610	Tide pole East
	6.421			18.568	Tide pole West
		1.914		23.075	CP

BS	IS	FS	HI	RL	REMARKS
1.463			24.538	23.075	CP
		1.383		23.155	TBM 7

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LEVELLING FROM TEMPORARY BENCH MARK 8 TO TIDE POLE

BS	IS	FS	HI	RL	REMARKS
3.132			26.518	23.386	TBM 8
	7.838			18.680	Tide pole East
	4.011			22.507	Tide pole West
		3.41		23.108	CP

BS	IS	FS	HI	RL	REMARKS
4.409			27.517	23.108	CP
		4.129		23.388	TBM 8

LEVELLING FROM TEMPORARY BENCH MARK 9 TO TIDE POLE

BS	IS	FS	HI	RL	REMARKS
0.513			29.983	29.470	TBM 9
	6.928			23.055	Tide pole East
		5.29		24.693	Tide pole West

BS	IS	FS	HI	RL	REMARKS
5.325			30.018	24.693	CP
		0.542		29.476	TBM 8

LEVELLING FROM TEMPORARY BENCH MARK 10 TO TIDE POLE

BS	IS	FS	HI	RL	REMARKS
3.797			30.246	26.449	TBM 10
	8.865			21.381	Tide pole East
4.203		0.714	33.735	29.532	CP
		8.467		25.268	Tide pole West

BS	IS	FS	HI	RL	REMARKS
8.312			33.580	25.268	Tide pole West
0.548		4.324	29.804	29.256	CP
		3.352		26.452	TBM 10

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LEVELLING FROM TEMPORARY BENCH MARK 11 TO TIDE POLE

Tide Pole West											
BS	IS	FS	HI	RL	REMARKS	BS	IS	FS	HI	RL	REMARKS
1.302			32.129	30.827	TBM 11	4.541			29.108	24.567	Tide pole West
0.105		3.015	29.219	29.114	CP	2.984		0.168	31.924	28.940	CP
		4.652		24.567	Tide pole West			1.102		30.822	TBM 11
Tide Pole East											
BS	IS	FS	HI	RL	REMARKS	BS	IS	FS	HI	RL	REMARKS
1.26			41.069	39.809	TBM 11	4.638			36.965	32.327	Tide pole East
0.246		4.263	37.052	36.806	CP	4.158		0.364	40.759	36.601	CP
		4.725		32.327	Tide pole East			0.955	39.804	39.804	TBM 11

LEVELLING FROM TEMPORARY BENCH MARK 12 TO TIDE POLE

Tide Pole East											
BS	IS	FS	HI	RL	REMARKS	BS	IS	FS	HI	RL	REMARKS
0.962			36.754	35.792	TBM 12	6.215			32.805	26.590	Tide pole East
0.043		4.131	32.666	32.623	CP	4.008		0.149	36.664	32.656	CP
		6.076		26.590	Tide pole East			0.869		35.795	TBM 12
Tide Pole West											
BS	IS	FS	HI	RL	REMARKS	BS	IS	FS	HI	RL	REMARKS
0.767			36.559	35.792	TBM 12	2.971			33.302	30.331	Tide pole West
0.889		4.318	33.130	32.241	CP	4.489		0.782	37.009	32.520	CP
		2.799		30.331	Tide pole West			1.212		35.797	TBM 12

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LEVELLING FROM TEMPORARY BENCH MARK 13 TO TIDE POLE

Tide Pole West											
BS	IS	FS	HI	RL	REMARKS	BS	IS	FS	HI	RL	REMARKS
1.295			41.104	39.809	TBM 13	4.147			39.367	35.220	Tide pole West
0.217		1.894	39.427	39.210	CP	1.652		0.234	40.785	39.133	CP
		4.207		35.220	Tide pole West			0.984		39.801	TBM 13
Tide Pole East											
BS	IS	FS	HI	RL	REMARKS	BS	IS	FS	HI	RL	REMARKS
1.295			41.104	39.809	TBM 13	3.521			36.683	33.162	Tide pole East
0.818		1.894	40.028	39.210	CP	4.529		1.124	40.088	35.559	CP
1.302		4.459	36.871	35.569	CP	1.248		0.679	40.657	39.409	CP
		3.709		33.162	Tide pole East			0.853		39.804	TBM 13

LEVELLING FROM TEMPORARY BENCH MARK 14 TO TIDE POLE

Tide Pole West											
BS	IS	FS	HI	RL	REMARKS	BS	IS	FS	HI	RL	REMARKS
1.125			42.511	41.386	TBM 14	3.518			40.344	36.826	Tide pole West
0.836		2.917	40.430	39.594	CP	2.784		0.768	42.360	39.576	CP
		3.604		36.826	Tide pole West			0.98		41.380	TBM 14
Tide Pole East											
BS	IS	FS	HI	RL	REMARKS	BS	IS	FS	HI	RL	REMARKS
1.453			42.839	41.386	TBM 14	5.618			40.536	34.918	Tide pole East
0.498		2.863	40.474	39.976	CP	2.763		0.517	42.782	40.019	CP
		5.556		34.918	Tide pole East			1.401	41.381	41.381	TBM 14

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LEVELLING FROM TEMPORARY BENCH MARK 15 TO TIDE POLE

Tide Pole West											
BS	IS	FS	HI	RL	REMARKS	BS	IS	FS	HI	RL	REMARKS
1.136			43.267	42.131	TBM 15	4.826			43.119	38.293	Tide pole West
		4.974		38.293	Tide pole West			0.992		42.127	TBM 15
Tide Pole East											
BS	IS	FS	HI	RL	REMARKS	BS	IS	FS	HI	RL	REMARKS
1.118			43.249	42.131	TBM 15	6.169			43.041	36.872	Tide pole East
		6.377		36.872	Tide pole East			0.906		42.135	TBM 15

LEVELLING FROM TEMPORARY BENCH MARK 16 TO TIDE POLE

Tide Pole West											
BS	IS	FS	HI	RL	REMARKS	BS	IS	FS	HI	RL	REMARKS
1.097			44.605	43.508	TBM 16	4.628			44.528	39.900	Tide pole West
		4.705		39.900	Tide pole West			1.015		43.513	TBM 16
Tide Pole East											
BS	IS	FS	HI	RL	REMARKS	BS	IS	FS	HI	RL	REMARKS
1.231			44.739	43.508	TBM 16	6.859			45.274	38.415	Tide pole East
		6.324		38.415	Tide pole East			1.762		43.512	TBM 16

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LEVELLING FROM TEMPORARY BENCH MARK 17 TO TIDE POLE

Tide Pole West											
BS	IS	FS	HI	RL	REMARKS	BS	IS	FS	HI	RL	REMARKS
0.892			43.938	43.046	TBM 17	4.865			45.751	40.886	Tide pole West
2.125		0.21	45.853	43.728	CP	0.469		1.982	44.238	43.769	CP
		4.967		40.886	Tide pole West			1.193		43.045	TBM 17
Tide Pole East											
BS	IS	FS	HI	RL	REMARKS	BS	IS	FS	HI	RL	REMARKS
0.892			44.778	43.886	TBM 17	5.207			45.035	39.828	Tide pole East
		4.95		39.828	Tide pole East			1.153		43.882	TBM 17

LEVELLING FROM TEMPORARY BENCH MARK 18 TO TIDE POLE

Tide Pole West											
BS	IS	FS	HI	RL	REMARKS	BS	IS	FS	HI	RL	REMARKS
1.158			50.390	49.232	TBM 18	4.782			50.182	45.400	Tide pole West
		4.99		45.400	Tide pole West			0.945		49.237	TBM 18
Tide Pole East											
BS	IS	FS	HI	RL	REMARKS	BS	IS	FS	HI	RL	REMARKS
1.347			50.579	49.232	TBM 18	5.124			48.589	43.465	Tide pole East
0.518		2.621	48.476	47.958	CP	2.526		0.469	50.646	48.120	CP
		5.011		43.465	Tide pole East			1.411		49.235	TBM 18

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LEVELLING FROM TEMPORARY BENCH MARK 19 TO TIDE POLE

Tide Pole West											
BS	IS	FS	HI	RL	REMARKS	BS	IS	FS	HI	RL	REMARKS
1.117			53.868	52.751	TBM 19	3.754			52.143	48.389	Tide pole West
0.849		2.518	52.199	51.350	CP	2.846		0.736	54.253	51.407	CP
		3.81		48.389	Tide pole West			1.499		52.754	TBM 19
Tide Pole East											
BS	IS	FS	HI	RL	REMARKS	BS	IS	FS	HI	RL	REMARKS
1.214			53.965	52.751	TBM 19	4.801			52.094	47.293	Tide pole East
0.628		2.471	52.122	51.494	CP	2.438		0.648	53.884	51.446	CP
		4.829		47.293	Tide pole East			1.131		52.753	TBM 19

LEVELLING FROM TEMPORARY BENCH MARK 20 TO TIDE POLE

Tide Pole West											
BS	IS	FS	HI	RL	REMARKS	BS	IS	FS	HI	RL	REMARKS
0.792			58.115	57.323	TBM 20	6.325			58.239	51.914	Tide pole West
		6.201		51.914	Tide pole West			0.911		57.328	TBM 20
Tide Pole East											
BS	IS	FS	HI	RL	REMARKS	BS	IS	FS	HI	RL	REMARKS
0.792			58.115	57.323	TBM 20	9.362			58.017	48.655	Tide pole East
		9.46		48.655	Tide pole East			0.691		57.326	TBM 20

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LEVELLING FROM TEMPORARY BENCH MARK 21 TO TIDE POLE

Tide Pole West											
BS	IS	FS	HI	RL	REMARKS	BS	IS	FS	HI	RL	REMARKS
0.548			59.921	59.373	TBM 21	5.627			59.810	54.183	Tide pole West
		5.738		54.183	Tide pole West			0.442		59.368	TBM 21
Tide Pole East											
BS	IS	FS	HI	RL	REMARKS	BS	IS	FS	HI	RL	REMARKS
0.712			60.085	59.373	TBM 21	7.728			60.197	52.469	Tide pole East
		7.616		52.469	Tide pole East			0.82		59.377	TBM 21

LEVELLING FROM TEMPORARY BENCH MARK 22 TO TIDE POLE

Tide Pole West											
BS	IS	FS	HI	RL	REMARKS	BS	IS	FS	HI	RL	REMARKS
1.447			61.458	60.011	TBM 22	5.883			61.380	55.497	Tide pole West
		5.961		55.497	Tide pole West			1.362		60.018	TBM 22
Tide Pole East											
BS	IS	FS	HI	RL	REMARKS	BS	IS	FS	HI	RL	REMARKS
3.902			63.913	60.011	TBM 22	8.536			63.978	55.442	Tide pole East
		8.471		55.442	Tide pole East			3.971		60.007	TBM 22

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LEVELLING FROM TEMPORARY BENCH MARK 23 TO TIDE POLE

Tide Pole West												
BS	IS	FS	HI	RL	REMARKS		BS	IS	FS	HI	RL	REMARKS
0.539			60.799	60.260	TBM 23		6.957			60.626	53.669	Tide pole West
		7.13		53.669	Tide pole West				0.364		60.262	TBM 23
Tide Pole East												
BS	IS	FS	HI	RL	REMARKS		BS	IS	FS	HI	RL	REMARKS
0.221			60.481	60.260	TBM 23		5.024			60.510	55.486	Tide pole East
		4.995		55.486	Tide pole East				0.254		60.256	TBM 23

Annexure 2: Water Depth along DVC Canal

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
0.000	23°28'47.5699"	87°18'18.8802"	2596677.10	531170.35	0.78
0.022	23°28'48.1224"	87°18'19.3782"	2596694.12	531184.44	1.06
0.045	23°28'48.6983"	87°18'19.8872"	2596711.86	531198.84	1.04
0.066	23°28'49.2261"	87°18'20.3555"	2596728.12	531212.09	0.97
0.087	23°28'49.7627"	87°18'20.8285"	2596744.65	531225.47	0.90
0.107	23°28'50.2656"	87°18'21.2774"	2596760.14	531238.17	0.88
0.129	23°28'50.8037"	87°18'21.7648"	2596776.72	531251.96	0.83
0.149	23°28'51.3137"	87°18'22.2059"	2596792.43	531264.44	0.82
0.170	23°28'51.8458"	87°18'22.6891"	2596808.82	531278.11	0.80
0.193	23°28'52.4067"	87°18'23.1878"	2596826.10	531292.22	0.78
0.215	23°28'52.9807"	87°18'23.6700"	2596843.78	531305.86	0.76
0.237	23°28'53.5517"	87°18'24.1560"	2596861.37	531319.61	0.76
0.260	23°28'54.1231"	87°18'24.6414"	2596878.97	531333.34	0.82
0.287	23°28'54.8207"	87°18'25.2353"	2596900.46	531350.14	0.88
0.309	23°28'55.3921"	87°18'25.7214"	2596918.06	531363.89	0.87
0.334	23°28'56.0267"	87°18'26.2615"	2596937.61	531379.17	0.92
0.363	23°28'56.7578"	87°18'26.8844"	2596960.13	531396.79	0.94
0.384	23°28'57.2811"	87°18'27.3545"	2596976.25	531410.09	0.93

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
0.404	23°28'57.8405"	87°18'27.7711"	2596993.48	531421.87	0.92
0.430	23°28'58.5367"	87°18'28.2984"	2597014.92	531436.78	0.91
0.459	23°28'59.3007"	87°18'28.8811"	2597038.45	531453.26	0.92
0.480	23°28'59.8562"	87°18'29.3048"	2597055.56	531465.24	0.91
0.501	23°29'0.4118"	87°18'29.7281"	2597072.67	531477.21	0.89
0.522	23°29'0.9722"	87°18'30.1447"	2597089.93	531488.99	0.86
0.543	23°29'1.5206"	87°18'30.5760"	2597106.82	531501.19	0.84
0.564	23°29'2.0810"	87°18'30.9937"	2597124.08	531513.00	0.83
0.592	23°29'2.7749"	87°18'31.6715"	2597145.46	531532.18	0.83
0.631	23°29'3.7432"	87°18'32.5661"	2597175.29	531557.49	0.83
0.660	23°29'4.4494"	87°18'33.2312"	2597197.05	531576.31	0.83
0.681	23°29'4.9600"	87°18'33.7140"	2597212.78	531589.97	0.83
0.702	23°29'5.4725"	87°18'34.1996"	2597228.57	531603.71	0.82
0.723	23°29'6.0039"	87°18'34.6574"	2597244.94	531616.66	0.81
0.744	23°29'6.4894"	87°18'35.1725"	2597259.90	531631.24	0.81
0.765	23°29'6.9777"	87°18'35.6831"	2597274.95	531645.69	0.81
0.785	23°29'7.4589"	87°18'36.2025"	2597289.78	531660.39	0.81
0.807	23°29'7.9434"	87°18'36.7483"	2597304.71	531675.84	0.80

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
0.829	23°29'8.4557"	87°18'37.2868"	2597320.50	531691.08	0.79
0.851	23°29'8.9561"	87°18'37.8373"	2597335.92	531706.66	0.77
0.873	23°29'9.4613"	87°18'38.3828"	2597351.49	531722.10	0.75
0.895	23°29'9.9701"	87°18'38.9248"	2597367.17	531737.44	0.72
0.917	23°29'10.4779"	87°18'39.4682"	2597382.82	531752.82	0.69
0.938	23°29'10.9929"	87°18'40.0025"	2597398.69	531767.94	0.65
0.960	23°29'11.4512"	87°18'40.5913"	2597412.82	531784.61	0.61
0.982	23°29'11.8587"	87°18'41.2254"	2597425.39	531802.57	0.59
1.004	23°29'12.2665"	87°18'41.8603"	2597437.97	531820.55	0.57
1.026	23°29'12.6746"	87°18'42.4944"	2597450.56	531838.51	0.57
1.048	23°29'13.0825"	87°18'43.1286"	2597463.14	531856.47	0.56
1.070	23°29'13.4929"	87°18'43.7610"	2597475.80	531874.38	0.56
1.111	23°29'14.2573"	87°18'44.9509"	2597499.38	531908.08	0.56
1.133	23°29'14.6654"	87°18'45.5850"	2597511.97	531926.04	0.55
1.155	23°29'15.0781"	87°18'46.2157"	2597524.70	531943.90	0.54
1.177	23°29'15.4322"	87°18'46.8853"	2597535.63	531962.87	0.53
1.199	23°29'15.7647"	87°18'47.5701"	2597545.90	531982.27	0.45
1.221	23°29'16.0980"	87°18'48.2534"	2597556.19	532001.63	0.40

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
1.246	23°29'16.4704"	87°18'49.0239"	2597567.69	532023.46	0.41
1.267	23°29'16.8020"	87°18'49.7083"	2597577.93	532042.85	0.38
1.289	23°29'17.1356"	87°18'50.3920"	2597588.23	532062.22	0.36
1.311	23°29'17.4691"	87°18'51.0757"	2597598.53	532081.59	0.37
1.350	23°29'18.0478"	87°18'52.2744"	2597616.40	532115.55	0.37
1.372	23°29'18.3153"	87°18'52.9914"	2597624.67	532135.87	0.34
1.399	23°29'18.6471"	87°18'53.8884"	2597634.93	532161.29	0.37
1.424	23°29'18.9459"	87°18'54.6961"	2597644.17	532184.18	0.38
1.448	23°29'19.2477"	87°18'55.5018"	2597653.50	532207.01	0.39
1.470	23°29'19.5067"	87°18'56.2216"	2597661.51	532227.41	0.39
1.492	23°29'19.7833"	87°18'56.9344"	2597670.06	532247.61	0.39
1.514	23°29'19.9779"	87°18'57.6763"	2597676.09	532268.64	0.37
1.536	23°29'20.1002"	87°18'58.4385"	2597679.90	532290.25	0.37
1.570	23°29'20.2780"	87°18'59.6126"	2597685.44	532323.54	0.37
1.605	23°29'20.4628"	87°19'0.8202"	2597691.20	532357.78	0.39
1.627	23°29'20.5751"	87°19'1.5979"	2597694.70	532379.83	0.38
1.649	23°29'20.6873"	87°19'2.3756"	2597698.20	532401.88	0.37
1.672	23°29'20.7917"	87°19'3.1543"	2597701.46	532423.96	0.37

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
1.711	23°29'20.9437"	87°19'4.5437"	2597706.22	532463.36	0.37
1.734	23°29'21.0305"	87°19'5.3252"	2597708.94	532485.52	0.36
1.756	23°29'21.1171"	87°19'6.1071"	2597711.65	532507.69	0.36
1.778	23°29'21.1987"	87°19'6.8885"	2597714.21	532529.85	0.37
1.801	23°29'21.2729"	87°19'7.6717"	2597716.54	532552.06	0.36
1.840	23°29'21.4323"	87°19'9.0602"	2597721.53	532591.43	0.37
1.863	23°29'21.5377"	87°19'9.8389"	2597724.82	532613.51	0.35
1.885	23°29'21.4629"	87°19'10.6189"	2597722.57	532635.64	0.34
1.907	23°29'21.3478"	87°19'11.3968"	2597719.08	532657.71	0.37
1.935	23°29'21.1924"	87°19'12.3434"	2597714.36	532684.57	0.38
1.957	23°29'21.0757"	87°19'13.1205"	2597710.82	532706.62	0.38
1.992	23°29'20.8862"	87°19'14.3272"	2597705.07	532740.86	0.36
2.014	23°29'20.7604"	87°19'15.1022"	2597701.25	532762.85	0.34
2.036	23°29'20.6804"	87°19'15.8847"	2597698.84	532785.05	0.39
2.068	23°29'20.4148"	87°19'16.9826"	2597690.74	532816.21	0.39
2.091	23°29'20.2126"	87°19'17.7387"	2597684.57	532837.67	0.37
2.118	23°29'19.9665"	87°19'18.6632"	2597677.06	532863.91	0.36
2.140	23°29'19.7698"	87°19'19.4204"	2597671.06	532885.40	0.35

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
2.175	23°29'19.4536"	87°19'20.5961"	2597661.41	532918.77	0.36
2.212	23°29'19.1248"	87°19'21.8582"	2597651.38	532954.59	0.37
2.235	23°29'18.9343"	87°19'22.6179"	2597645.57	532976.15	0.40
2.257	23°29'18.7064"	87°19'23.3644"	2597638.61	532997.34	0.38
2.279	23°29'18.4448"	87°19'24.0988"	2597630.61	533018.19	0.37
2.302	23°29'18.1808"	87°19'24.8322"	2597622.54	533039.01	0.37
2.324	23°29'17.9097"	87°19'25.5624"	2597614.25	533059.74	0.37
2.346	23°29'17.6480"	87°19'26.2962"	2597606.25	533080.57	0.37
2.369	23°29'17.3864"	87°19'27.0306"	2597598.25	533101.42	0.36
2.391	23°29'17.1195"	87°19'27.7626"	2597590.09	533122.20	0.36
2.413	23°29'16.8578"	87°19'28.4963"	2597582.09	533143.03	0.36
2.435	23°29'16.5962"	87°19'29.2308"	2597574.09	533163.88	0.45
2.465	23°29'16.2335"	87°19'30.2029"	2597563.00	533191.48	0.54
2.488	23°29'15.8935"	87°19'30.8991"	2597552.59	533211.25	0.52
2.510	23°29'15.5516"	87°19'31.5928"	2597542.12	533230.95	0.56
2.532	23°29'15.2094"	87°19'32.2869"	2597531.64	533250.66	0.63
2.572	23°29'14.6007"	87°19'33.5211"	2597513.00	533285.71	0.66
2.594	23°29'14.2584"	87°19'34.2151"	2597502.52	533305.42	0.66

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
2.617	23°29'13.9165"	87°19'34.9092"	2597492.05	533325.13	0.76
2.639	23°29'13.5740"	87°19'35.6029"	2597481.56	533344.83	0.89
2.661	23°29'13.2320"	87°19'36.2973"	2597471.09	533364.55	0.95
2.684	23°29'12.8924"	87°19'36.9934"	2597460.69	533384.32	0.98
2.706	23°29'12.5320"	87°19'37.6758"	2597449.65	533403.70	0.99
2.728	23°29'12.1783"	87°19'38.3635"	2597438.82	533423.23	0.99
2.751	23°29'11.8264"	87°19'39.0519"	2597428.04	533442.78	0.99
2.778	23°29'11.3772"	87°19'39.8814"	2597414.28	533466.34	0.99
2.800	23°29'11.0203"	87°19'40.5655"	2597403.35	533485.77	0.98
2.822	23°29'10.6784"	87°19'41.2599"	2597392.88	533505.49	0.98
2.845	23°29'10.3257"	87°19'41.9483"	2597382.08	533525.04	0.98
2.867	23°29'9.9542"	87°19'42.6242"	2597370.70	533544.24	0.98
2.889	23°29'9.6104"	87°19'43.3172"	2597360.17	533563.92	0.98
2.912	23°29'9.2603"	87°19'44.0066"	2597349.45	533583.50	0.98
2.934	23°29'8.8853"	87°19'44.6805"	2597337.96	533602.64	0.98
2.956	23°29'8.5131"	87°19'45.3561"	2597326.56	533621.83	0.98
2.996	23°29'7.8612"	87°19'46.5634"	2597306.59	533656.12	0.98
3.018	23°29'7.4858"	87°19'47.2373"	2597295.09	533675.26	0.91

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
3.041	23°29'7.1104"	87°19'47.9108"	2597283.59	533694.39	0.81
3.063	23°29'6.7357"	87°19'48.5853"	2597272.11	533713.55	0.69
3.085	23°29'6.4146"	87°19'49.2907"	2597262.28	533733.58	0.56
3.108	23°29'6.0947"	87°19'49.9975"	2597252.49	533753.65	0.36
3.130	23°29'5.7885"	87°19'50.7106"	2597243.12	533773.90	0.44
3.152	23°29'5.5024"	87°19'51.4337"	2597234.37	533794.43	0.59
3.175	23°29'5.2043"	87°19'52.1514"	2597225.25	533814.81	0.69
3.197	23°29'4.8959"	87°19'52.8642"	2597215.81	533835.05	0.74
3.219	23°29'4.5939"	87°19'53.5798"	2597206.57	533855.37	0.87
3.259	23°29'4.0709"	87°19'54.8586"	2597190.57	533891.68	0.93
3.281	23°29'3.7624"	87°19'55.5707"	2597181.13	533911.90	0.94
3.304	23°29'3.4552"	87°19'56.2842"	2597171.73	533932.16	0.92
3.326	23°29'3.1629"	87°19'57.0048"	2597162.79	533952.62	0.91
3.348	23°29'2.8668"	87°19'57.7233"	2597153.73	533973.02	0.90
3.371	23°29'2.5583"	87°19'58.4353"	2597144.29	533993.24	0.88
3.405	23°29'2.0896"	87°19'59.5496"	2597129.95	534024.88	0.88
3.428	23°29'1.7967"	87°20'0.2695"	2597120.99	534045.32	0.82
3.450	23°29'1.4885"	87°20'0.9823"	2597111.56	534065.56	0.82

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
3.480	23°29'1.0946"	87°20'1.9402"	2597099.51	534092.76	0.85
3.509	23°29'0.6757"	87°20'2.8850"	2597086.69	534119.59	0.86
3.532	23°29'0.3331"	87°20'3.5794"	2597076.20	534139.31	0.85
3.562	23°28'59.8765"	87°20'4.5044"	2597062.22	534165.58	0.86
3.584	23°28'59.5346"	87°20'5.1984"	2597051.75	534185.29	0.84
3.606	23°28'59.1920"	87°20'5.8928"	2597041.26	534205.01	0.89
3.629	23°28'58.8500"	87°20'6.5871"	2597030.79	534224.73	1.01
3.653	23°28'58.4695"	87°20'7.3579"	2597019.14	534246.62	1.06
3.676	23°28'58.1276"	87°20'8.0522"	2597008.67	534266.34	1.02
3.698	23°28'57.7850"	87°20'8.7459"	2596998.18	534286.04	0.98
3.720	23°28'57.4424"	87°20'9.4399"	2596987.69	534305.75	0.93
3.743	23°28'57.1004"	87°20'10.1342"	2596977.22	534325.47	0.92
3.765	23°28'56.7578"	87°20'10.8282"	2596966.73	534345.18	0.98
3.790	23°28'56.3942"	87°20'11.6082"	2596955.60	534367.33	1.07
3.817	23°28'56.0869"	87°20'12.5103"	2596946.21	534392.94	1.06
3.839	23°28'55.8372"	87°20'13.2493"	2596938.58	534413.92	1.05
3.882	23°28'55.3649"	87°20'14.6452"	2596924.15	534453.55	1.06
3.921	23°28'54.9205"	87°20'15.9580"	2596910.57	534490.82	1.08

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
3.944	23°28'54.6821"	87°20'16.7020"	2596903.29	534511.94	1.07
3.983	23°28'54.2244"	87°20'18.0101"	2596889.30	534549.08	1.06
4.006	23°28'53.9838"	87°20'18.7523"	2596881.95	534570.15	1.05
4.028	23°28'53.7308"	87°20'19.4902"	2596874.22	534591.10	1.04
4.070	23°28'53.2679"	87°20'20.8894"	2596860.08	534630.82	1.05
4.092	23°28'53.0186"	87°20'21.6280"	2596852.46	534651.79	0.99
4.115	23°28'52.7682"	87°20'22.3673"	2596844.81	534672.78	0.96
4.137	23°28'52.5155"	87°20'23.1046"	2596837.09	534693.71	0.96
4.162	23°28'52.2939"	87°20'23.9455"	2596830.33	534717.58	0.99
4.201	23°28'51.9446"	87°20'25.2920"	2596819.68	534755.80	0.98
4.224	23°28'51.7550"	87°20'26.0523"	2596813.90	534777.38	0.97
4.264	23°28'51.3993"	87°20'27.3971"	2596803.05	534815.55	1.00
4.284	23°28'51.2234"	87°20'28.0950"	2596797.69	534835.36	0.97
4.305	23°28'51.0466"	87°20'28.8056"	2596792.30	534855.53	0.96
4.334	23°28'50.7915"	87°20'29.7794"	2596784.52	534883.17	0.97
4.355	23°28'50.5977"	87°20'30.4850"	2596778.61	534903.20	0.93
4.375	23°28'50.4199"	87°20'31.1960"	2596773.19	534923.38	0.91
4.409	23°28'50.1322"	87°20'32.3508"	2596764.42	534956.16	0.88

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
4.433	23°28'49.9321"	87°20'33.1516"	2596758.32	534978.89	0.90
4.454	23°28'49.7588"	87°20'33.8640"	2596753.04	534999.11	0.87
4.475	23°28'49.5836"	87°20'34.5757"	2596747.70	535019.31	0.86
4.496	23°28'49.4061"	87°20'35.2860"	2596742.29	535039.47	0.83
4.516	23°28'49.2326"	87°20'35.9980"	2596737.00	535059.68	0.83
4.537	23°28'49.0629"	87°20'36.7111"	2596731.83	535079.92	0.82
4.558	23°28'48.8854"	87°20'37.4221"	2596726.42	535100.10	0.80
4.579	23°28'48.7082"	87°20'38.1313"	2596721.02	535120.23	0.78
4.600	23°28'48.5307"	87°20'38.8422"	2596715.61	535140.41	0.78
4.634	23°28'48.3187"	87°20'40.0142"	2596709.17	535173.67	0.79
4.665	23°28'48.1856"	87°20'41.1096"	2596705.15	535204.75	0.80
4.686	23°28'48.0952"	87°20'41.8391"	2596702.42	535225.45	0.80
4.717	23°28'47.9624"	87°20'42.9341"	2596698.41	535256.52	0.81
4.738	23°28'47.8778"	87°20'43.6646"	2596695.86	535277.25	0.79
4.759	23°28'47.7832"	87°20'44.3938"	2596693.00	535297.94	0.79
4.780	23°28'47.6941"	87°20'45.1240"	2596690.31	535318.66	0.78
4.801	23°28'47.6096"	87°20'45.8546"	2596687.76	535339.39	0.77
4.822	23°28'47.5237"	87°20'46.5848"	2596685.17	535360.11	0.75

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
4.843	23°28'47.4278"	87°20'47.3140"	2596682.27	535380.80	0.74
4.864	23°28'47.3433"	87°20'48.0449"	2596679.72	535401.54	0.70
4.885	23°28'47.2584"	87°20'48.7755"	2596677.16	535422.27	0.66
4.905	23°28'47.1657"	87°20'49.5047"	2596674.36	535442.96	0.65
4.926	23°28'47.0643"	87°20'50.2331"	2596671.29	535463.63	0.65
4.960	23°28'46.9166"	87°20'51.4186"	2596666.83	535497.27	0.66
4.981	23°28'46.8320"	87°20'52.1496"	2596664.28	535518.01	0.64
5.002	23°28'46.7390"	87°20'52.8791"	2596661.47	535538.71	0.63
5.023	23°28'46.6470"	87°20'53.6086"	2596658.69	535559.41	0.61
5.044	23°28'46.5573"	87°20'54.3381"	2596655.98	535580.11	0.58
5.065	23°28'46.4558"	87°20'55.0658"	2596652.91	535600.76	0.57
5.086	23°28'46.3729"	87°20'55.7975"	2596650.41	535621.52	0.57
5.106	23°28'46.2838"	87°20'56.5270"	2596647.72	535642.22	0.56
5.127	23°28'46.1888"	87°20'57.2551"	2596644.85	535662.88	0.56
5.148	23°28'46.1023"	87°20'57.9867"	2596642.24	535683.64	0.54
5.179	23°28'46.0130"	87°20'59.0868"	2596639.57	535714.85	0.55
5.200	23°28'45.9736"	87°20'59.8217"	2596638.41	535735.70	0.55
5.221	23°28'45.9310"	87°21'0.5566"	2596637.15	535756.55	0.55

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
5.242	23°28'45.8936"	87°21'1.2915"	2596636.05	535777.40	0.55
5.263	23°28'45.8565"	87°21'2.0272"	2596634.96	535798.27	0.54
5.284	23°28'45.8165"	87°21'2.7611"	2596633.78	535819.09	0.53
5.313	23°28'45.7586"	87°21'3.7727"	2596632.07	535847.79	0.54
5.334	23°28'45.7215"	87°21'4.5080"	2596630.98	535868.65	0.54
5.355	23°28'45.6889"	87°21'5.2436"	2596630.03	535889.52	0.54
5.378	23°28'45.6285"	87°21'6.0674"	2596628.23	535912.89	0.56
5.412	23°28'45.4360"	87°21'7.2337"	2596622.39	535945.99	0.56
5.433	23°28'45.3157"	87°21'7.9632"	2596618.74	535966.69	0.54
5.454	23°28'45.1917"	87°21'8.7141"	2596614.98	535988.00	0.54
5.476	23°28'45.0658"	87°21'9.4773"	2596611.16	536009.66	0.54
5.515	23°28'44.8439"	87°21'10.8245"	2596604.43	536047.89	0.69
5.549	23°28'44.6536"	87°21'12.0036"	2596598.66	536081.35	0.69
5.570	23°28'44.5342"	87°21'12.7284"	2596595.04	536101.92	0.68
5.591	23°28'44.4142"	87°21'13.4529"	2596591.40	536122.48	0.65
5.612	23°28'44.2942"	87°21'14.1777"	2596587.76	536143.05	0.65
5.635	23°28'44.1665"	87°21'14.9946"	2596583.89	536166.23	0.69
5.666	23°28'44.0538"	87°21'16.0917"	2596580.50	536197.36	0.71

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
5.687	23°28'43.9747"	87°21'16.8234"	2596578.12	536218.12	0.71
5.708	23°28'43.9061"	87°21'17.5557"	2596576.06	536238.90	0.74
5.740	23°28'43.7949"	87°21'18.6539"	2596572.72	536270.06	0.78
5.760	23°28'43.6977"	87°21'19.3824"	2596569.78	536290.73	0.77
5.781	23°28'43.6128"	87°21'20.1129"	2596567.22	536311.46	0.76
5.802	23°28'43.5402"	87°21'20.8450"	2596565.04	536332.23	0.75
5.823	23°28'43.4676"	87°21'21.5770"	2596562.86	536353.00	0.75
5.844	23°28'43.3951"	87°21'22.3097"	2596560.68	536373.79	0.74
5.865	23°28'43.3105"	87°21'23.0399"	2596558.13	536394.51	0.74
5.886	23°28'43.2122"	87°21'23.7687"	2596555.16	536415.19	0.74
5.907	23°28'43.1264"	87°21'24.4989"	2596552.57	536435.91	0.74
5.928	23°28'43.0424"	87°21'25.2299"	2596550.04	536456.65	0.74
5.948	23°28'42.9594"	87°21'25.9608"	2596547.54	536477.39	0.74
5.969	23°28'42.8713"	87°21'26.6910"	2596544.88	536498.11	0.74
5.990	23°28'42.7720"	87°21'27.4194"	2596541.88	536518.78	0.74
6.011	23°28'42.6829"	87°21'28.1493"	2596539.19	536539.49	0.74
6.032	23°28'42.5983"	87°21'28.8798"	2596536.64	536560.22	0.74
6.058	23°28'42.4938"	87°21'29.7933"	2596533.49	536586.14	0.76

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
6.095	23°28'42.3380"	87°21'31.0698"	2596528.79	536622.36	0.75
6.116	23°28'42.2466"	87°21'31.8003"	2596526.03	536643.09	0.74
6.139	23°28'42.1543"	87°21'32.6229"	2596523.25	536666.43	0.79
6.160	23°28'42.0401"	87°21'33.3484"	2596519.79	536687.02	0.85
6.186	23°28'41.8901"	87°21'34.2544"	2596515.24	536712.73	0.88
6.207	23°28'41.7707"	87°21'34.9792"	2596511.62	536733.30	0.88
6.228	23°28'41.6513"	87°21'35.7048"	2596508.00	536753.89	0.93
6.249	23°28'41.5306"	87°21'36.4289"	2596504.34	536774.44	0.94
6.270	23°28'41.4105"	87°21'37.1537"	2596500.70	536795.01	0.91
6.290	23°28'41.2912"	87°21'37.8793"	2596497.08	536815.60	0.90
6.324	23°28'41.0969"	87°21'39.0569"	2596491.19	536849.02	0.92
6.351	23°28'40.9475"	87°21'39.9629"	2596486.66	536874.73	0.94
6.371	23°28'40.8274"	87°21'40.6877"	2596483.02	536895.30	0.89
6.392	23°28'40.7081"	87°21'41.4125"	2596479.40	536915.87	0.82
6.413	23°28'40.5887"	87°21'42.1374"	2596475.78	536936.44	0.79
6.439	23°28'40.4422"	87°21'43.0440"	2596471.34	536962.17	0.83
6.463	23°28'40.3079"	87°21'43.8598"	2596467.27	536985.32	0.82
6.484	23°28'40.1765"	87°21'44.5824"	2596463.28	537005.83	0.79

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
6.515	23°28'39.9799"	87°21'45.6659"	2596457.31	537036.58	0.81
6.541	23°28'39.8126"	87°21'46.5683"	2596452.23	537062.19	0.84
6.570	23°28'39.6353"	87°21'47.5627"	2596446.85	537090.41	0.85
6.591	23°28'39.5159"	87°21'48.2875"	2596443.23	537110.98	0.85
6.614	23°28'39.3807"	87°21'49.1029"	2596439.13	537134.12	0.87
6.635	23°28'39.2613"	87°21'49.8274"	2596435.51	537154.68	0.86
6.656	23°28'39.1415"	87°21'50.5522"	2596431.88	537175.25	0.86
6.690	23°28'38.9339"	87°21'51.7277"	2596425.58	537208.61	0.88
6.711	23°28'38.8025"	87°21'52.4503"	2596421.59	537229.12	0.88
6.745	23°28'38.5894"	87°21'53.6226"	2596415.12	537262.39	0.90
6.771	23°28'38.4250"	87°21'54.5275"	2596410.13	537288.07	0.92
6.794	23°28'38.2803"	87°21'55.3411"	2596405.74	537311.16	0.91
6.815	23°28'38.1830"	87°21'56.0691"	2596402.80	537331.82	0.91
6.836	23°28'38.0870"	87°21'56.7982"	2596399.90	537352.51	0.90
6.862	23°28'37.9753"	87°21'57.7096"	2596396.53	537378.37	0.92
6.883	23°28'37.8705"	87°21'58.4387"	2596393.36	537399.06	0.92
6.904	23°28'37.7624"	87°21'59.1653"	2596390.09	537419.68	0.89
6.925	23°28'37.6544"	87°21'59.8926"	2596386.82	537440.32	0.88

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
6.961	23°28'37.4719"	87°22'1.1658"	2596381.30	537476.45	0.90
6.988	23°28'37.3514"	87°22'2.0771"	2596377.66	537502.31	0.92
7.016	23°28'37.2189"	87°22'3.0790"	2596373.66	537530.74	0.93
7.037	23°28'37.1229"	87°22'3.8081"	2596370.76	537551.43	0.92
7.066	23°28'36.9902"	87°22'4.8106"	2596366.75	537579.88	0.97
7.089	23°28'36.8822"	87°22'5.6310"	2596363.49	537603.16	0.99
7.129	23°28'36.6949"	87°22'6.9966"	2596357.83	537641.91	0.99
7.149	23°28'36.5888"	87°22'7.7235"	2596354.62	537662.54	0.98
7.170	23°28'36.4844"	87°22'8.4509"	2596351.46	537683.18	0.97
7.191	23°28'36.3688"	87°22'9.1771"	2596347.96	537703.79	0.97
7.212	23°28'36.2487"	87°22'9.9016"	2596344.32	537724.35	0.96
7.233	23°28'36.1293"	87°22'10.6264"	2596340.70	537744.92	0.90
7.254	23°28'36.0190"	87°22'11.3530"	2596337.36	537765.54	0.86
7.275	23°28'35.9109"	87°22'12.0803"	2596334.09	537786.18	0.81
7.296	23°28'35.8029"	87°22'12.8069"	2596330.82	537806.80	0.79
7.317	23°28'35.6948"	87°22'13.5339"	2596327.55	537827.43	0.83
7.337	23°28'35.5871"	87°22'14.2612"	2596324.29	537848.07	0.83
7.358	23°28'35.4790"	87°22'14.9878"	2596321.02	537868.69	0.80

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
7.379	23°28'35.3709"	87°22'15.7151"	2596317.75	537889.33	0.78
7.400	23°28'35.2629"	87°22'16.4424"	2596314.48	537909.97	0.75
7.421	23°28'35.1548"	87°22'17.1690"	2596311.21	537930.59	0.72
7.442	23°28'35.0471"	87°22'17.8960"	2596307.95	537951.22	0.70
7.463	23°28'34.9400"	87°22'18.6233"	2596304.71	537971.86	0.73
7.494	23°28'34.7953"	87°22'19.7164"	2596300.34	538002.88	0.74
7.515	23°28'34.6924"	87°22'20.4441"	2596297.23	538023.53	0.70
7.536	23°28'34.5843"	87°22'21.1714"	2596293.96	538044.17	0.66
7.557	23°28'34.4763"	87°22'21.8987"	2596290.69	538064.81	0.61
7.578	23°28'34.3682"	87°22'22.6254"	2596287.42	538085.43	0.59
7.599	23°28'34.2604"	87°22'23.3527"	2596284.16	538106.07	0.58
7.638	23°28'34.0582"	87°22'24.7157"	2596278.04	538144.75	0.59
7.664	23°28'33.9279"	87°22'25.6252"	2596274.10	538170.56	0.57
7.685	23°28'33.8312"	87°22'26.3543"	2596271.18	538191.25	0.55
7.706	23°28'33.7351"	87°22'27.0834"	2596268.28	538211.94	0.50
7.726	23°28'33.6365"	87°22'27.8118"	2596265.30	538232.61	0.46
7.747	23°28'33.5284"	87°22'28.5384"	2596262.03	538253.23	0.45
7.768	23°28'33.4203"	87°22'29.2653"	2596258.76	538273.86	0.44

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
7.789	23°28'33.3122"	87°22'29.9926"	2596255.49	538294.50	0.41
7.810	23°28'33.2045"	87°22'30.7199"	2596252.23	538315.14	0.38
7.831	23°28'33.1058"	87°22'31.4483"	2596249.25	538335.81	0.36
7.852	23°28'33.0097"	87°22'32.1774"	2596246.35	538356.50	0.36
7.891	23°28'32.8191"	87°22'33.5422"	2596240.59	538395.23	0.37
7.912	23°28'32.7111"	87°22'34.2695"	2596237.32	538415.87	0.37
7.933	23°28'32.5913"	87°22'34.9936"	2596233.69	538436.42	0.36
7.954	23°28'32.4598"	87°22'35.7166"	2596229.70	538456.94	0.35
7.975	23°28'32.3380"	87°22'36.4411"	2596226.01	538477.50	0.35
8.003	23°28'32.1737"	87°22'37.4376"	2596221.03	538505.78	0.37
8.035	23°28'31.9935"	87°22'38.5246"	2596215.57	538536.63	0.37
8.055	23°28'31.8744"	87°22'39.2494"	2596211.96	538557.20	0.36
8.076	23°28'31.7542"	87°22'39.9742"	2596208.32	538577.77	0.35
8.097	23°28'31.6348"	87°22'40.6990"	2596204.70	538598.34	0.35
8.118	23°28'31.5147"	87°22'41.4238"	2596201.06	538618.91	0.34
8.139	23°28'31.3955"	87°22'42.1486"	2596197.45	538639.48	0.33
8.160	23°28'31.2754"	87°22'42.8734"	2596193.81	538660.05	0.33
8.181	23°28'31.1559"	87°22'43.5982"	2596190.19	538680.62	0.35

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
8.202	23°28'31.0361"	87°22'44.3237"	2596186.56	538701.21	0.38
8.225	23°28'30.8940"	87°22'45.1373"	2596182.25	538724.30	0.41
8.264	23°28'30.5402"	87°22'46.4635"	2596171.47	538761.95	0.42
8.285	23°28'30.3515"	87°22'47.1708"	2596165.72	538782.03	0.42
8.306	23°28'30.1625"	87°22'47.8782"	2596159.96	538802.11	0.41
8.327	23°28'29.9734"	87°22'48.5858"	2596154.20	538822.20	0.40
8.348	23°28'29.7844"	87°22'49.2932"	2596148.44	538842.28	0.38
8.369	23°28'29.6012"	87°22'50.0023"	2596142.86	538862.41	0.36
8.390	23°28'29.4236"	87°22'50.7128"	2596137.45	538882.58	0.34
8.411	23°28'29.2443"	87°22'51.4230"	2596131.99	538902.74	0.34
8.431	23°28'29.0445"	87°22'52.1267"	2596125.90	538922.72	0.37
8.458	23°28'28.7962"	87°22'53.0070"	2596118.33	538947.71	0.40
8.497	23°28'28.4665"	87°22'54.3400"	2596108.29	538985.55	0.40
8.517	23°28'28.3236"	87°22'55.0591"	2596103.95	539005.96	0.39
8.538	23°28'28.1804"	87°22'55.7803"	2596099.60	539026.43	0.39
8.559	23°28'28.0378"	87°22'56.5001"	2596095.27	539046.86	0.39
8.580	23°28'27.9017"	87°22'57.2213"	2596091.14	539067.33	0.38
8.601	23°28'27.7364"	87°22'57.9354"	2596086.11	539087.60	0.38

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
8.622	23°28'27.5701"	87°22'58.6494"	2596081.05	539107.87	0.38
8.643	23°28'27.4042"	87°22'59.3639"	2596076.00	539128.15	0.37
8.664	23°28'27.2379"	87°23'0.0779"	2596070.94	539148.42	0.37
8.685	23°28'27.0768"	87°23'0.7931"	2596066.04	539168.72	0.36
8.706	23°28'26.8705"	87°23'1.4940"	2596059.75	539188.62	0.36
8.726	23°28'26.6431"	87°23'2.1878"	2596052.81	539208.32	0.36
8.747	23°28'26.4092"	87°23'2.8791"	2596045.67	539227.95	0.36
8.768	23°28'26.1835"	87°23'3.5737"	2596038.78	539247.67	0.36
8.805	23°28'25.7834"	87°23'4.7869"	2596026.57	539282.12	0.38
8.826	23°28'25.5492"	87°23'5.4783"	2596019.42	539301.75	0.36
8.847	23°28'25.3154"	87°23'6.1696"	2596012.28	539321.38	0.35
8.867	23°28'25.0850"	87°23'6.8623"	2596005.25	539341.05	0.35
8.891	23°28'24.8340"	87°23'7.6449"	2595997.59	539363.27	0.37
8.914	23°28'24.5833"	87°23'8.4271"	2595989.94	539385.48	0.42
8.948	23°28'24.2150"	87°23'9.5551"	2595978.70	539417.51	0.40
8.969	23°28'23.9763"	87°23'10.2447"	2595971.41	539437.09	0.39
8.990	23°28'23.7313"	87°23'10.9310"	2595963.93	539456.58	0.38
9.011	23°28'23.4861"	87°23'11.6181"	2595956.44	539476.09	0.37

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
9.035	23°28'23.2100"	87°23'12.3907"	2595948.01	539498.03	0.39
9.055	23°28'22.9618"	87°23'13.0760"	2595940.43	539517.49	0.41
9.076	23°28'22.7250"	87°23'13.7659"	2595933.20	539537.08	0.40
9.097	23°28'22.4911"	87°23'14.4572"	2595926.06	539556.71	0.40
9.118	23°28'22.2572"	87°23'15.1485"	2595918.92	539576.34	0.37
9.139	23°28'22.0269"	87°23'15.8398"	2595911.89	539595.97	0.37
9.170	23°28'21.6507"	87°23'16.8673"	2595900.40	539625.15	0.40
9.191	23°28'21.4272"	87°23'17.5633"	2595893.58	539644.91	0.39
9.212	23°28'21.1729"	87°23'18.2457"	2595885.81	539664.29	0.42
9.233	23°28'20.8951"	87°23'18.9171"	2595877.32	539683.36	0.45
9.254	23°28'20.6170"	87°23'19.5893"	2595868.82	539702.45	0.48
9.288	23°28'20.1652"	87°23'20.6811"	2595855.01	539733.46	0.51
9.324	23°28'19.6781"	87°23'21.8585"	2595840.12	539766.90	0.53
9.345	23°28'19.4003"	87°23'22.5303"	2595831.63	539785.98	0.54
9.371	23°28'19.0529"	87°23'23.3696"	2595821.01	539809.82	0.55
9.411	23°28'18.5369"	87°23'24.6322"	2595805.24	539845.68	0.56
9.434	23°28'18.2125"	87°23'25.3821"	2595795.32	539866.98	0.57
9.455	23°28'17.9545"	87°23'26.0628"	2595787.44	539886.31	0.57

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
9.478	23°28'17.6723"	87°23'26.8311"	2595778.82	539908.13	0.58
9.499	23°28'17.3631"	87°23'27.4866"	2595769.36	539926.75	0.56
9.520	23°28'17.0528"	87°23'28.1417"	2595759.87	539945.36	0.55
9.541	23°28'16.7432"	87°23'28.7968"	2595750.40	539963.97	0.58
9.562	23°28'16.4307"	87°23'29.4509"	2595740.84	539982.55	0.67
9.583	23°28'16.1179"	87°23'30.1042"	2595731.27	540001.11	0.80
9.604	23°28'15.8076"	87°23'30.7593"	2595721.78	540019.72	0.90
9.624	23°28'15.4980"	87°23'31.4134"	2595712.31	540038.30	0.98
9.656	23°28'15.0283"	87°23'32.3952"	2595697.94	540066.19	1.02
9.677	23°28'14.7187"	87°23'33.0503"	2595688.47	540084.80	0.92
9.698	23°28'14.4088"	87°23'33.7054"	2595678.99	540103.41	0.82
9.719	23°28'14.0985"	87°23'34.3608"	2595669.50	540122.03	0.77
9.739	23°28'13.7886"	87°23'35.0159"	2595660.02	540140.64	0.75
9.760	23°28'13.4787"	87°23'35.6710"	2595650.54	540159.25	0.75
9.789	23°28'13.0514"	87°23'36.5711"	2595637.47	540184.82	0.77
9.815	23°28'12.6507"	87°23'37.3828"	2595625.21	540207.88	0.79
9.839	23°28'12.2954"	87°23'38.1161"	2595614.34	540228.71	0.82
9.859	23°28'11.9958"	87°23'38.7768"	2595605.18	540247.48	0.82

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
9.880	23°28'11.6966"	87°23'39.4380"	2595596.03	540266.26	0.81
9.909	23°28'11.2843"	87°23'40.3469"	2595583.42	540292.08	0.82
9.930	23°28'10.9851"	87°23'41.0073"	2595574.27	540310.84	0.82
9.953	23°28'10.6483"	87°23'41.7508"	2595563.97	540331.96	0.82
9.980	23°28'10.2680"	87°23'42.5735"	2595552.34	540355.33	0.84
10.000	23°28'9.9684"	87°23'43.2346"	2595543.18	540374.11	0.80
10.021	23°28'9.6686"	87°23'43.8957"	2595534.01	540392.89	0.77
10.042	23°28'9.3697"	87°23'44.5554"	2595524.87	540411.63	0.76
10.068	23°28'8.9995"	87°23'45.3852"	2595513.55	540435.20	0.78
10.108	23°28'8.4172"	87°23'46.6126"	2595495.74	540470.07	0.79
10.128	23°28'8.1031"	87°23'47.2656"	2595486.13	540488.62	0.80
10.155	23°28'7.7156"	87°23'48.0844"	2595474.28	540511.88	0.83
10.188	23°28'7.2034"	87°23'49.1446"	2595458.61	540542.00	0.85
10.209	23°28'6.8918"	87°23'49.7986"	2595449.08	540560.58	0.86
10.233	23°28'6.5433"	87°23'50.5354"	2595438.42	540581.51	0.88
10.254	23°28'6.2272"	87°23'51.1876"	2595428.75	540600.04	0.87
10.275	23°28'5.9169"	87°23'51.8427"	2595419.26	540618.65	0.87
10.306	23°28'5.4481"	87°23'52.8234"	2595404.92	540646.51	0.89

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
10.329	23°28'5.0996"	87°23'53.5608"	2595394.26	540667.46	0.90
10.350	23°28'4.7965"	87°23'54.2194"	2595384.99	540686.17	0.90
10.371	23°28'4.4869"	87°23'54.8745"	2595375.52	540704.78	0.88
10.392	23°28'4.1769"	87°23'55.5300"	2595366.04	540723.40	0.85
10.413	23°28'3.8761"	87°23'56.1896"	2595356.84	540742.14	0.83
10.434	23°28'3.5720"	87°23'56.8486"	2595347.54	540760.86	0.80
10.455	23°28'3.2623"	87°23'57.5037"	2595338.07	540779.47	0.73
10.476	23°28'2.9605"	87°23'58.1634"	2595328.84	540798.21	0.68
10.497	23°28'2.6613"	87°23'58.8245"	2595319.69	540816.99	0.65
10.517	23°28'2.3588"	87°23'59.4834"	2595310.44	540835.71	0.64
10.554	23°28'1.8187"	87°24'0.6317"	2595293.92	540868.33	0.67
10.575	23°28'1.5194"	87°24'1.2910"	2595284.77	540887.06	0.64
10.596	23°28'1.2127"	87°24'1.9500"	2595275.39	540905.78	0.63
10.617	23°28'0.9093"	87°24'2.6082"	2595266.11	540924.48	0.68
10.643	23°28'0.5286"	87°24'3.4312"	2595254.47	540947.86	0.72
10.664	23°28'0.2222"	87°24'4.0884"	2595245.10	540966.53	0.71
10.685	23°27'59.9211"	87°24'4.7481"	2595235.89	540985.27	0.71
10.708	23°27'59.5764"	87°24'5.4873"	2595225.35	541006.27	0.72

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
10.732	23°27'59.2389"	87°24'6.2308"	2595215.03	541027.39	0.78
10.752	23°27'58.9293"	87°24'6.8855"	2595205.56	541045.99	0.86
10.779	23°27'58.5500"	87°24'7.7092"	2595193.96	541069.39	0.91
10.799	23°27'58.2403"	87°24'8.3646"	2595184.49	541088.01	0.94
10.820	23°27'57.9411"	87°24'9.0257"	2595175.34	541106.79	0.94
10.840	23°27'57.6533"	87°24'9.6589"	2595166.54	541124.78	0.96
10.869	23°27'57.2201"	87°24'10.5650"	2595153.29	541150.52	1.00
10.891	23°27'56.9178"	87°24'11.2609"	2595144.05	541170.29	0.98
10.913	23°27'56.6146"	87°24'11.9541"	2595134.78	541189.98	0.96
10.936	23°27'56.2869"	87°24'12.6789"	2595124.76	541210.57	0.79
10.956	23°27'56.0029"	87°24'13.3347"	2595116.08	541229.20	0.74
10.984	23°27'55.5900"	87°24'14.2101"	2595103.45	541254.07	0.83
11.006	23°27'55.2822"	87°24'14.9071"	2595094.04	541273.87	0.85
11.027	23°27'55.0128"	87°24'15.5887"	2595085.81	541293.23	0.95
11.056	23°27'54.5926"	87°24'16.4923"	2595072.96	541318.90	1.00
11.077	23°27'54.2660"	87°24'17.1378"	2595062.97	541337.24	0.96
11.098	23°27'53.9707"	87°24'17.8007"	2595053.94	541356.07	0.96
11.118	23°27'53.6821"	87°24'18.4670"	2595045.12	541375.00	0.94

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
11.139	23°27'53.3930"	87°24'19.1338"	2595036.28	541393.94	0.98
11.160	23°27'53.1041"	87°24'19.8005"	2595027.45	541412.88	1.02
11.181	23°27'52.8156"	87°24'20.4666"	2595018.63	541431.80	1.02
11.207	23°27'52.4469"	87°24'21.2956"	2595007.36	541455.35	1.07
11.228	23°27'52.1269"	87°24'21.9456"	2594997.57	541473.82	1.05
11.267	23°27'51.5958"	87°24'23.2000"	2594981.34	541509.45	1.02
11.288	23°27'51.3252"	87°24'23.8749"	2594973.07	541528.62	0.97
11.309	23°27'51.0210"	87°24'24.5334"	2594963.77	541547.33	1.04
11.348	23°27'50.4397"	87°24'25.7615"	2594945.99	541582.22	1.03
11.369	23°27'50.1297"	87°24'26.4166"	2594936.51	541600.83	1.01
11.398	23°27'49.7030"	87°24'27.3173"	2594923.46	541626.42	0.98
11.419	23°27'49.3933"	87°24'27.9727"	2594913.99	541645.04	0.97
11.440	23°27'49.0833"	87°24'28.6277"	2594904.51	541663.65	0.93
11.460	23°27'48.7730"	87°24'29.2827"	2594895.02	541682.26	0.92
11.497	23°27'48.2305"	87°24'30.4295"	2594878.43	541714.84	0.98
11.534	23°27'47.6877"	87°24'31.5755"	2594861.83	541747.40	0.97
11.554	23°27'47.3774"	87°24'32.2309"	2594852.34	541766.02	0.96
11.575	23°27'47.0814"	87°24'32.8937"	2594843.29	541784.85	0.93

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
11.596	23°27'46.7643"	87°24'33.5442"	2594833.59	541803.33	0.93
11.620	23°27'46.3985"	87°24'34.2713"	2594822.40	541823.99	1.00
11.651	23°27'45.9341"	87°24'35.2547"	2594808.20	541851.93	0.96
11.672	23°27'45.6349"	87°24'35.9154"	2594799.05	541870.70	0.94
11.693	23°27'45.3349"	87°24'36.5764"	2594789.88	541889.48	0.92
11.714	23°27'45.0207"	87°24'37.2286"	2594780.27	541908.01	0.92
11.735	23°27'44.7003"	87°24'37.8780"	2594770.47	541926.46	0.89
11.761	23°27'44.3138"	87°24'38.6974"	2594758.65	541949.74	0.89
11.782	23°27'44.0185"	87°24'39.3588"	2594749.62	541968.53	0.87
11.802	23°27'43.7049"	87°24'40.0135"	2594740.03	541987.13	0.82
11.823	23°27'43.3845"	87°24'40.6624"	2594730.23	542005.57	0.72
11.844	23°27'43.0777"	87°24'41.3192"	2594720.85	542024.23	0.83
11.876	23°27'42.6267"	87°24'42.3101"	2594707.06	542052.38	0.84
11.896	23°27'42.3063"	87°24'42.9587"	2594697.26	542070.81	0.82
11.917	23°27'41.9817"	87°24'43.6056"	2594687.33	542089.19	0.80
11.938	23°27'41.6899"	87°24'44.2702"	2594678.41	542108.07	0.84
11.959	23°27'41.3977"	87°24'44.9351"	2594669.48	542126.96	0.83
11.980	23°27'41.0877"	87°24'45.5901"	2594660.00	542145.57	0.80

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
12.001	23°27'40.7774"	87°24'46.2455"	2594650.51	542164.19	0.76
12.022	23°27'40.4531"	87°24'46.8917"	2594640.59	542182.55	0.73
12.043	23°27'40.1467"	87°24'47.5491"	2594631.22	542201.23	0.73
12.064	23°27'39.8474"	87°24'48.2098"	2594622.07	542220.00	0.72
12.092	23°27'39.4353"	87°24'49.1190"	2594609.47	542245.83	0.72
12.113	23°27'39.1298"	87°24'49.7765"	2594600.13	542264.51	0.70
12.134	23°27'38.8195"	87°24'50.4319"	2594590.64	542283.13	0.66
12.155	23°27'38.5010"	87°24'51.0816"	2594580.90	542301.59	0.64
12.176	23°27'38.1842"	87°24'51.7323"	2594571.21	542320.08	0.64
12.207	23°27'37.7348"	87°24'52.7235"	2594557.47	542348.24	0.66
12.241	23°27'37.2545"	87°24'53.8013"	2594542.79	542378.86	0.68
12.262	23°27'36.9465"	87°24'54.4570"	2594533.37	542397.49	0.67
12.283	23°27'36.6361"	87°24'55.1124"	2594523.88	542416.11	0.65
12.304	23°27'36.3264"	87°24'55.7674"	2594514.41	542434.72	0.61
12.325	23°27'36.0164"	87°24'56.4220"	2594504.93	542453.32	0.58
12.345	23°27'35.7061"	87°24'57.0774"	2594495.44	542471.94	0.62
12.372	23°27'35.3186"	87°24'57.8964"	2594483.59	542495.21	0.69
12.394	23°27'34.9951"	87°24'58.6010"	2594473.70	542515.23	0.75

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
12.424	23°27'34.5416"	87°24'59.5263"	2594459.83	542541.52	0.77
12.452	23°27'34.1117"	87°25'0.3973"	2594446.68	542566.27	0.81
12.474	23°27'33.7804"	87°25'1.0819"	2594436.55	542585.72	0.80
12.494	23°27'33.4724"	87°25'1.7192"	2594427.13	542603.83	0.77
12.516	23°27'33.1470"	87°25'2.3999"	2594417.18	542623.17	0.76
12.537	23°27'32.8324"	87°25'3.0633"	2594407.56	542642.02	0.78
12.560	23°27'32.4760"	87°25'3.7954"	2594396.66	542662.82	0.79
12.582	23°27'32.1624"	87°25'4.4588"	2594387.07	542681.67	0.78
12.603	23°27'31.8478"	87°25'5.1219"	2594377.45	542700.51	0.78
12.631	23°27'31.4256"	87°25'6.0042"	2594364.54	542725.58	0.79
12.652	23°27'31.1094"	87°25'6.6662"	2594354.87	542744.39	0.78
12.683	23°27'30.6685"	87°25'7.6313"	2594341.39	542771.81	0.82
12.704	23°27'30.3438"	87°25'8.2884"	2594331.46	542790.48	0.84
12.725	23°27'30.0191"	87°25'8.9455"	2594321.53	542809.15	0.81
12.746	23°27'29.6948"	87°25'9.6029"	2594311.61	542827.83	0.80
12.767	23°27'29.3701"	87°25'10.2599"	2594301.68	542846.50	0.80
12.793	23°27'28.9735"	87°25'11.0634"	2594289.55	542869.33	0.82
12.828	23°27'28.4305"	87°25'12.1578"	2594272.94	542900.43	0.84

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
12.866	23°27'27.8491"	87°25'13.3231"	2594255.16	542933.54	0.85
12.887	23°27'27.5245"	87°25'13.9804"	2594245.23	542952.22	0.87
12.908	23°27'27.2056"	87°25'14.6410"	2594235.48	542970.99	0.86
12.939	23°27'26.7446"	87°25'15.5944"	2594221.38	542998.08	0.89
12.976	23°27'26.1671"	87°25'16.7628"	2594203.72	543031.28	0.92
12.997	23°27'25.8425"	87°25'17.4202"	2594193.79	543049.96	0.91
13.019	23°27'25.5181"	87°25'18.0772"	2594183.87	543068.63	0.90
13.040	23°27'25.1934"	87°25'18.7343"	2594173.94	543087.30	0.88
13.068	23°27'24.7612"	87°25'19.6116"	2594160.72	543112.23	0.89
13.094	23°27'24.3785"	87°25'20.4222"	2594149.02	543135.26	0.90
13.115	23°27'24.0551"	87°25'21.0803"	2594139.13	543153.96	0.87
13.143	23°27'23.6092"	87°25'21.9473"	2594125.49	543178.60	0.90
13.167	23°27'23.2703"	87°25'22.6907"	2594115.13	543199.72	0.87
13.188	23°27'22.9424"	87°25'23.3459"	2594105.10	543218.34	0.82
13.223	23°27'22.4055"	87°25'24.4432"	2594088.68	543249.52	0.82
13.244	23°27'22.0944"	87°25'25.1081"	2594079.17	543268.41	0.82
13.265	23°27'21.7798"	87°25'25.7711"	2594069.55	543287.25	0.80
13.287	23°27'21.4662"	87°25'26.4345"	2594059.96	543306.10	0.77

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
13.308	23°27'21.1522"	87°25'27.0976"	2594050.36	543324.94	0.76
13.336	23°27'20.7485"	87°25'27.9898"	2594038.02	543350.29	0.80
13.359	23°27'20.3882"	87°25'28.7200"	2594027.00	543371.04	0.81
13.380	23°27'20.0635"	87°25'29.3777"	2594017.07	543389.73	0.79
13.402	23°27'19.7394"	87°25'30.0334"	2594007.16	543408.36	0.76
13.423	23°27'19.4212"	87°25'30.6960"	2593997.43	543427.19	0.73
13.444	23°27'19.1076"	87°25'31.3594"	2593987.84	543446.04	0.69
13.465	23°27'18.7936"	87°25'32.0225"	2593978.24	543464.88	0.65
13.486	23°27'18.4793"	87°25'32.6855"	2593968.63	543483.72	0.58
13.507	23°27'18.1656"	87°25'33.3489"	2593959.04	543502.57	0.54
13.529	23°27'17.8465"	87°25'34.0095"	2593949.28	543521.34	0.48
13.550	23°27'17.5218"	87°25'34.6669"	2593939.35	543540.02	0.42
13.571	23°27'17.1971"	87°25'35.3239"	2593929.42	543558.69	0.53
13.592	23°27'16.8776"	87°25'35.9837"	2593919.65	543577.44	0.56
13.613	23°27'16.5636"	87°25'36.6471"	2593910.05	543596.29	0.61
13.646	23°27'16.0752"	87°25'37.6786"	2593895.12	543625.60	0.68
13.667	23°27'15.7609"	87°25'38.3417"	2593885.51	543644.44	0.65
13.688	23°27'15.4469"	87°25'39.0054"	2593875.91	543663.30	0.64

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
13.726	23°27'14.8818"	87°25'40.1801"	2593858.63	543696.68	0.68
13.747	23°27'14.5571"	87°25'40.8371"	2593848.70	543715.35	0.70
13.773	23°27'14.1601"	87°25'41.6405"	2593836.56	543738.18	0.67
13.794	23°27'13.8354"	87°25'42.2975"	2593826.63	543756.85	0.76
13.820	23°27'13.4495"	87°25'43.1070"	2593814.83	543779.85	0.71
13.853	23°27'12.9534"	87°25'44.1353"	2593799.66	543809.07	0.69
13.874	23°27'12.6313"	87°25'44.7940"	2593789.81	543827.79	0.69
13.895	23°27'12.3056"	87°25'45.4503"	2593779.85	543846.44	0.61
13.916	23°27'11.9832"	87°25'46.1035"	2593769.99	543865.00	0.52
13.938	23°27'11.6424"	87°25'46.7928"	2593759.57	543884.59	0.42
13.960	23°27'11.3102"	87°25'47.4653"	2593749.41	543903.70	0.57
13.998	23°27'10.7040"	87°25'48.6515"	2593730.87	543937.41	0.61
14.032	23°27'10.1546"	87°25'49.6634"	2593714.06	543966.17	0.61
14.052	23°27'9.8063"	87°25'50.2876"	2593703.40	543983.91	0.59
14.075	23°27'9.4304"	87°25'50.9609"	2593691.90	544003.05	0.59
14.097	23°27'9.0550"	87°25'51.6340"	2593680.41	544022.18	0.57
14.119	23°27'8.6788"	87°25'52.3070"	2593668.90	544041.31	0.56
14.154	23°27'8.0945"	87°25'53.3548"	2593651.02	544071.09	0.59

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
14.177	23°27'7.7187"	87°25'54.0281"	2593639.52	544090.23	0.59
14.199	23°27'7.3432"	87°25'54.7012"	2593628.03	544109.36	0.58
14.221	23°27'6.9670"	87°25'55.3742"	2593616.52	544128.49	0.62
14.246	23°27'6.5500"	87°25'56.1225"	2593603.76	544149.76	0.64
14.268	23°27'6.1739"	87°25'56.7959"	2593592.25	544168.90	0.60
14.291	23°27'5.7984"	87°25'57.4690"	2593580.76	544188.03	0.58
14.313	23°27'5.4226"	87°25'58.1420"	2593569.26	544207.16	0.57
14.335	23°27'5.0464"	87°25'58.8154"	2593557.75	544226.30	0.61
14.363	23°27'4.5905"	87°25'59.6397"	2593543.80	544249.73	0.63
14.385	23°27'4.2173"	87°26'0.3145"	2593532.38	544268.91	0.63
14.407	23°27'3.8476"	87°26'0.9921"	2593521.07	544288.17	0.68
14.442	23°27'3.2458"	87°26'2.0285"	2593502.65	544317.63	0.71
14.464	23°27'2.8596"	87°26'2.6944"	2593490.83	544336.56	0.71
14.494	23°27'2.3381"	87°26'3.5785"	2593474.87	544361.69	0.73
14.519	23°27'1.8854"	87°26'4.3013"	2593461.01	544382.24	0.77
14.546	23°27'1.3873"	87°26'5.0969"	2593445.76	544404.86	0.81
14.588	23°27'0.6168"	87°26'6.3269"	2593422.17	544439.83	0.83
14.618	23°27'0.0732"	87°26'7.1946"	2593405.53	544464.50	0.86

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
14.653	23°26'59.4389"	87°26'8.2073"	2593386.11	544493.29	0.91
14.675	23°26'59.0309"	87°26'8.8583"	2593373.62	544511.80	0.89
14.707	23°26'58.4449"	87°26'9.8010"	2593355.68	544538.60	0.92
14.745	23°26'57.7344"	87°26'10.8609"	2593333.92	544568.74	0.93
14.767	23°26'57.2638"	87°26'11.4600"	2593319.50	544585.78	0.95
14.789	23°26'56.7858"	87°26'12.0519"	2593304.85	544602.62	0.95
14.814	23°26'56.2558"	87°26'12.7114"	2593288.61	544621.38	1.02
14.836	23°26'55.7956"	87°26'13.3196"	2593274.51	544638.68	1.04
14.859	23°26'55.3374"	87°26'13.9300"	2593260.47	544656.04	0.99
14.881	23°26'54.8788"	87°26'14.5400"	2593246.42	544673.39	0.94
14.903	23°26'54.4212"	87°26'15.1503"	2593232.40	544690.75	0.92
14.926	23°26'53.9431"	87°26'15.7430"	2593217.75	544707.61	0.86
14.948	23°26'53.4654"	87°26'16.3353"	2593203.11	544724.46	0.83
14.973	23°26'52.9345"	87°26'16.9930"	2593186.84	544743.17	0.85
15.015	23°26'52.0666"	87°26'18.1426"	2593160.25	544775.87	0.85
15.037	23°26'51.6070"	87°26'18.7533"	2593146.17	544793.24	0.80
15.059	23°26'51.1296"	87°26'19.3456"	2593131.54	544810.09	0.78
15.084	23°26'50.5711"	87°26'19.9764"	2593114.42	544828.04	0.81

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
15.116	23°26'49.8408"	87°26'20.7917"	2593092.03	544851.24	0.80
15.139	23°26'49.3595"	87°26'21.3808"	2593077.28	544868.00	0.94
15.161	23°26'48.8814"	87°26'21.9731"	2593062.63	544884.85	1.06
15.196	23°26'48.1381"	87°26'22.8940"	2593039.85	544911.05	1.08
15.231	23°26'47.3947"	87°26'23.8157"	2593017.07	544937.27	1.09
15.253	23°26'46.9170"	87°26'24.4080"	2593002.43	544954.12	1.08
15.275	23°26'46.4389"	87°26'24.9999"	2592987.78	544970.96	1.07
15.298	23°26'45.9586"	87°26'25.5897"	2592973.06	544987.74	1.05
15.320	23°26'45.4793"	87°26'26.1792"	2592958.37	545004.51	0.99
15.342	23°26'44.9911"	87°26'26.7633"	2592943.41	545021.13	0.96
15.365	23°26'44.5037"	87°26'27.3460"	2592928.47	545037.71	0.90
15.387	23°26'44.0162"	87°26'27.9291"	2592913.53	545054.30	1.01
15.424	23°26'43.1769"	87°26'28.8737"	2592887.80	545081.18	0.98
15.446	23°26'42.6709"	87°26'29.4384"	2592872.29	545097.25	0.90
15.469	23°26'42.1675"	87°26'30.0049"	2592856.86	545113.37	0.82
15.491	23°26'41.6623"	87°26'30.5681"	2592841.37	545129.40	0.78
15.513	23°26'41.1560"	87°26'31.1335"	2592825.85	545145.49	0.77
15.536	23°26'40.6503"	87°26'31.6979"	2592810.35	545161.55	0.86

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
15.558	23°26'40.1437"	87°26'32.2618"	2592794.82	545177.60	0.94
15.580	23°26'39.6381"	87°26'32.8265"	2592779.32	545193.67	1.00
15.605	23°26'39.0757"	87°26'33.4534"	2592762.08	545211.51	1.04
15.645	23°26'38.1764"	87°26'34.4566"	2592734.51	545240.06	1.06
15.680	23°26'37.3847"	87°26'35.3287"	2592710.24	545264.88	1.02
15.702	23°26'36.8518"	87°26'35.8634"	2592693.90	545280.10	0.82
15.724	23°26'36.3147"	87°26'36.3927"	2592677.43	545295.17	0.65
15.747	23°26'35.7744"	87°26'36.9178"	2592660.86	545310.12	0.59
15.771	23°26'35.1731"	87°26'37.5001"	2592642.42	545326.70	0.65
15.794	23°26'34.6335"	87°26'38.0277"	2592625.87	545341.72	0.70
15.821	23°26'33.9832"	87°26'38.6810"	2592605.93	545360.32	0.79
15.843	23°26'33.4503"	87°26'39.2157"	2592589.59	545375.54	0.89
15.868	23°26'32.8617"	87°26'39.8132"	2592571.54	545392.55	1.02
15.898	23°26'32.1346"	87°26'40.5051"	2592549.24	545412.25	0.96
15.920	23°26'31.5852"	87°26'41.0199"	2592532.39	545426.91	0.93
15.942	23°26'31.0455"	87°26'41.5460"	2592515.84	545441.89	0.93
15.965	23°26'30.5126"	87°26'42.0806"	2592499.50	545457.11	0.97
15.987	23°26'29.9808"	87°26'42.6160"	2592483.19	545472.35	1.03

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
16.022	23°26'29.1515"	87°26'43.4463"	2592457.76	545495.99	1.05
16.044	23°26'28.5865"	87°26'43.9400"	2592440.43	545510.05	1.04
16.074	23°26'27.8157"	87°26'44.5746"	2592416.78	545528.13	1.03
16.096	23°26'27.2384"	87°26'45.0509"	2592399.07	545541.70	1.01
16.119	23°26'26.6725"	87°26'45.5442"	2592381.71	545555.75	1.01
16.141	23°26'26.1072"	87°26'46.0378"	2592364.37	545569.81	0.98
16.163	23°26'25.5413"	87°26'46.5310"	2592347.01	545583.86	0.94
16.186	23°26'24.9757"	87°26'47.0243"	2592329.66	545597.91	0.91
16.208	23°26'24.4169"	87°26'47.5257"	2592312.52	545612.19	0.87
16.230	23°26'23.8500"	87°26'48.0175"	2592295.13	545626.20	0.84
16.252	23°26'23.2763"	87°26'48.4998"	2592277.53	545639.94	0.81
16.275	23°26'22.7029"	87°26'48.9822"	2592259.94	545653.68	0.78
16.297	23°26'22.1299"	87°26'49.4645"	2592242.36	545667.42	0.74
16.319	23°26'21.5562"	87°26'49.9475"	2592224.76	545681.18	0.72
16.342	23°26'20.9825"	87°26'50.4301"	2592207.16	545694.93	0.71
16.364	23°26'20.4091"	87°26'50.9124"	2592189.57	545708.67	0.69
16.386	23°26'19.8244"	87°26'51.3774"	2592171.63	545721.92	0.66
16.409	23°26'19.2290"	87°26'51.8286"	2592153.36	545734.78	0.58

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
16.431	23°26'18.6404"	87°26'52.2890"	2592135.30	545747.90	0.46
16.453	23°26'18.0463"	87°26'52.7410"	2592117.07	545760.78	0.36
16.476	23°26'17.4519"	87°26'53.1925"	2592098.83	545773.65	0.35
16.498	23°26'16.8591"	87°26'53.6462"	2592080.64	545786.58	0.35
16.520	23°26'16.2634"	87°26'54.0964"	2592062.36	545799.41	0.38
16.543	23°26'15.6673"	87°26'54.5458"	2592044.07	545812.22	0.55
16.570	23°26'14.9390"	87°26'55.0945"	2592021.72	545827.86	0.55
16.592	23°26'14.3433"	87°26'55.5440"	2592003.44	545840.67	0.50
16.625	23°26'13.4871"	87°26'56.2005"	2591977.17	545859.38	0.52
16.647	23°26'12.8963"	87°26'56.6570"	2591959.04	545872.39	0.45
16.669	23°26'12.3002"	87°26'57.1064"	2591940.75	545885.20	0.42
16.701	23°26'11.4321"	87°26'57.7434"	2591914.11	545903.36	0.48
16.729	23°26'10.6805"	87°26'58.2544"	2591891.04	545917.93	0.49
16.751	23°26'10.0702"	87°26'58.6809"	2591872.31	545930.09	0.48
16.773	23°26'9.4605"	87°26'59.1070"	2591853.60	545942.24	0.42
16.813	23°26'8.3674"	87°26'59.8511"	2591820.05	545963.46	0.42
16.848	23°26'7.4079"	87°27'0.4960"	2591790.60	545981.85	0.48
16.870	23°26'6.7911"	87°27'0.9111"	2591771.67	545993.69	0.40

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
16.907	23°26'5.7635"	87°27'1.6026"	2591740.13	546013.41	0.42
16.930	23°26'5.1448"	87°27'2.0153"	2591721.14	546025.18	0.39
16.952	23°26'4.5352"	87°27'2.4411"	2591702.43	546037.32	0.38
16.977	23°26'3.8571"	87°27'2.9152"	2591681.62	546050.84	0.44
17.017	23°26'2.7483"	87°27'3.6907"	2591647.59	546072.95	0.38
17.039	23°26'2.1488"	87°27'4.1094"	2591629.19	546084.89	0.38
17.064	23°26'1.4746"	87°27'4.5804"	2591608.50	546098.32	0.41
17.086	23°26'0.8751"	87°27'4.9991"	2591590.10	546110.26	0.47
17.116	23°26'0.0546"	87°27'5.5792"	2591564.92	546126.80	0.54
17.138	23°25'59.4596"	87°27'6.0079"	2591546.66	546139.02	0.48
17.160	23°25'58.8603"	87°27'6.4266"	2591528.27	546150.96	0.43
17.182	23°25'58.2608"	87°27'6.8453"	2591509.87	546162.90	0.45
17.220	23°25'57.2119"	87°27'7.5787"	2591477.68	546183.81	0.52
17.242	23°25'56.6127"	87°27'7.9974"	2591459.29	546195.75	0.47
17.264	23°25'56.0167"	87°27'8.4228"	2591441.00	546207.88	0.43
17.286	23°25'55.4240"	87°27'8.8525"	2591422.81	546220.13	0.54
17.316	23°25'54.5860"	87°27'9.4040"	2591397.09	546235.86	0.56
17.338	23°25'53.9732"	87°27'9.8001"	2591378.28	546247.16	0.56

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
17.360	23°25'53.3685"	87°27'10.2097"	2591359.72	546258.84	0.63
17.393	23°25'52.4685"	87°27'10.8360"	2591332.10	546276.70	0.68
17.415	23°25'51.8560"	87°27'11.2322"	2591313.30	546288.00	0.62
17.437	23°25'51.2429"	87°27'11.6265"	2591294.48	546299.25	0.58
17.459	23°25'50.6317"	87°27'12.0248"	2591275.72	546310.61	0.55
17.481	23°25'50.0325"	87°27'12.4442"	2591257.33	546322.57	0.51
17.503	23°25'49.4329"	87°27'12.8629"	2591238.93	546334.51	0.40
17.525	23°25'48.8224"	87°27'13.2622"	2591220.19	546345.90	0.36
17.546	23°25'48.2099"	87°27'13.6580"	2591201.39	546357.19	0.36
17.571	23°25'47.5264"	87°27'14.1141"	2591180.41	546370.20	0.38
17.593	23°25'46.9203"	87°27'14.5216"	2591161.81	546381.82	0.34
17.618	23°25'46.2387"	87°27'14.9798"	2591140.89	546394.89	0.36
17.642	23°25'45.5587"	87°27'15.4412"	2591120.02	546408.05	0.39
17.675	23°25'44.6497"	87°27'16.0527"	2591092.12	546425.49	0.38
17.697	23°25'44.0191"	87°27'16.4114"	2591072.76	546435.73	0.37
17.719	23°25'43.3717"	87°27'16.7362"	2591052.88	546445.01	0.36
17.741	23°25'42.7253"	87°27'17.0625"	2591033.03	546454.33	0.41
17.763	23°25'42.0798"	87°27'17.3908"	2591013.21	546463.71	0.49

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
17.790	23°25'41.2638"	87°27'17.7809"	2590988.15	546474.86	0.50
17.829	23°25'40.1292"	87°27'18.3426"	2590953.31	546490.91	0.49
17.850	23°25'39.4919"	87°27'18.6647"	2590933.74	546500.11	0.40
17.871	23°25'38.8833"	87°27'18.9600"	2590915.05	546508.55	0.49
17.892	23°25'38.2688"	87°27'19.2543"	2590896.18	546516.96	0.52
17.914	23°25'37.6107"	87°27'19.5745"	2590875.97	546526.11	0.41
17.936	23°25'36.9555"	87°27'19.9028"	2590855.85	546535.49	0.37
17.963	23°25'36.1706"	87°27'20.2993"	2590831.75	546546.82	0.38
17.985	23°25'35.5206"	87°27'20.6396"	2590811.79	546556.54	0.37
18.020	23°25'34.4655"	87°27'21.1484"	2590779.39	546571.08	0.34
18.043	23°25'33.8026"	87°27'21.4576"	2590759.03	546579.92	0.34
18.080	23°25'32.6720"	87°27'21.9728"	2590724.31	546594.65	0.37
18.102	23°25'32.0062"	87°27'22.2743"	2590703.86	546603.27	0.42
18.129	23°25'31.2023"	87°27'22.6229"	2590679.17	546613.24	0.36
18.169	23°25'29.9985"	87°27'23.1537"	2590642.20	546628.42	0.37
18.209	23°25'28.8013"	87°27'23.6993"	2590605.43	546644.02	0.38
18.231	23°25'28.1344"	87°27'23.9986"	2590584.95	546652.58	0.38
18.269	23°25'26.9990"	87°27'24.5032"	2590550.08	546667.01	0.41

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
18.291	23°25'26.3341"	87°27'24.8068"	2590529.66	546675.69	0.37
18.315	23°25'25.6022"	87°27'25.1405"	2590507.18	546685.23	0.43
18.338	23°25'24.9369"	87°27'25.4434"	2590486.75	546693.89	0.45
18.360	23°25'24.2711"	87°27'25.7434"	2590466.30	546702.47	0.43
18.389	23°25'23.3936"	87°27'26.1055"	2590439.35	546712.83	0.53
18.411	23°25'22.7213"	87°27'26.3886"	2590418.70	546720.93	0.52
18.433	23°25'22.0509"	87°27'26.6788"	2590398.11	546729.23	0.50
18.455	23°25'21.3747"	87°27'26.9520"	2590377.34	546737.05	0.41
18.486	23°25'20.4244"	87°27'27.3233"	2590348.15	546747.68	0.43
18.524	23°25'19.2778"	87°27'27.7947"	2590312.93	546761.17	0.35
18.546	23°25'18.6064"	87°27'28.0863"	2590292.31	546769.51	0.37
18.584	23°25'17.4594"	87°27'28.5577"	2590257.08	546783.00	0.38
18.622	23°25'16.3050"	87°27'29.0083"	2590221.62	546795.90	0.36
18.643	23°25'15.6659"	87°27'29.2581"	2590201.99	546803.05	0.46
18.680	23°25'14.5164"	87°27'29.7069"	2590166.68	546815.90	0.40
18.701	23°25'13.8774"	87°27'29.9563"	2590147.05	546823.04	0.36
18.739	23°25'12.7249"	87°27'30.3995"	2590111.65	546835.73	0.39
18.770	23°25'11.7572"	87°27'30.7429"	2590081.92	546845.57	0.35

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
18.800	23°25'10.8528"	87°27'31.0928"	2590054.14	546855.59	0.37
18.827	23°25'10.0070"	87°27'31.4229"	2590028.16	546865.04	0.39
18.851	23°25'9.2885"	87°27'31.6904"	2590006.09	546872.70	0.42
18.871	23°25'8.6495"	87°27'31.9401"	2589986.46	546879.85	0.40
18.892	23°25'8.0104"	87°27'32.1891"	2589966.83	546886.98	0.45
18.929	23°25'6.8899"	87°27'32.6198"	2589932.41	546899.31	0.48
18.950	23°25'6.2479"	87°27'32.8600"	2589912.69	546906.19	0.45
18.971	23°25'5.6076"	87°27'33.1048"	2589893.02	546913.20	0.44
18.992	23°25'4.9669"	87°27'33.3489"	2589873.34	546920.19	0.44
19.028	23°25'3.8460"	87°27'33.7784"	2589838.91	546932.49	0.46
19.049	23°25'3.2070"	87°27'34.0281"	2589819.28	546939.64	0.39
19.070	23°25'2.5644"	87°27'34.2652"	2589799.54	546946.43	0.38
19.096	23°25'1.7558"	87°27'34.5467"	2589774.70	546954.50	0.40
19.120	23°25'1.0309"	87°27'34.8092"	2589752.43	546962.02	0.42
19.143	23°25'0.3078"	87°27'35.0763"	2589730.22	546969.67	0.44
19.167	23°24'59.5842"	87°27'35.3433"	2589707.99	546977.32	0.46
19.190	23°24'58.8612"	87°27'35.6104"	2589685.78	546984.97	0.48
19.216	23°24'58.0574"	87°27'35.9075"	2589661.09	546993.48	0.50

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
19.242	23°24'57.2514"	87°27'36.1961"	2589636.33	547001.75	0.52
19.279	23°24'56.1241"	87°27'36.6034"	2589601.70	547013.42	0.54
19.300	23°24'55.4796"	87°27'36.8362"	2589581.90	547020.09	0.54
19.321	23°24'54.8363"	87°27'37.0739"	2589562.14	547026.90	0.54
19.341	23°24'54.1931"	87°27'37.3096"	2589542.38	547033.65	0.54
19.362	23°24'53.5482"	87°27'37.5399"	2589522.57	547040.25	0.54
19.383	23°24'52.9063"	87°27'37.7769"	2589502.85	547047.04	0.54
19.415	23°24'51.9379"	87°27'38.1231"	2589473.10	547056.96	0.55
19.435	23°24'51.2933"	87°27'38.3566"	2589453.30	547063.65	0.55
19.456	23°24'50.6501"	87°27'38.5936"	2589433.54	547070.44	0.55
19.477	23°24'50.0081"	87°27'38.8342"	2589413.82	547077.33	0.55
19.498	23°24'49.3694"	87°27'39.0836"	2589394.20	547084.47	0.55
19.519	23°24'48.7303"	87°27'39.3340"	2589374.57	547091.64	0.55
19.540	23°24'48.0954"	87°27'39.5954"	2589355.07	547099.12	0.55
19.561	23°24'47.4605"	87°27'39.8571"	2589335.57	547106.61	0.55
19.582	23°24'46.8257"	87°27'40.1184"	2589316.07	547114.09	0.55
19.603	23°24'46.1908"	87°27'40.3801"	2589296.57	547121.58	0.55
19.623	23°24'45.5562"	87°27'40.6412"	2589277.08	547129.05	0.55

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
19.644	23°24'44.9172"	87°27'40.8916"	2589257.45	547136.22	0.55
19.665	23°24'44.2804"	87°27'41.1484"	2589237.89	547143.57	0.54
19.686	23°24'43.6458"	87°27'41.4097"	2589218.40	547151.05	0.53
19.707	23°24'43.0110"	87°27'41.6714"	2589198.90	547158.54	0.51
19.728	23°24'42.3754"	87°27'41.9331"	2589179.38	547166.03	0.50
19.749	23°24'41.7418"	87°27'42.1984"	2589159.92	547173.62	0.48
19.770	23°24'41.1054"	87°27'42.4544"	2589140.37	547180.95	0.46
19.791	23°24'40.4663"	87°27'42.7041"	2589120.74	547188.10	0.45
19.811	23°24'39.8285"	87°27'42.9560"	2589101.15	547195.31	0.44
19.832	23°24'39.1933"	87°27'43.2177"	2589081.64	547202.80	0.43
19.853	23°24'38.5584"	87°27'43.4794"	2589062.14	547210.29	0.43
19.887	23°24'37.5270"	87°27'43.9046"	2589030.46	547222.46	0.46
19.908	23°24'36.8941"	87°27'44.1727"	2589011.02	547230.13	0.40
19.929	23°24'36.2515"	87°27'44.4097"	2588991.28	547236.92	0.37
19.950	23°24'35.6047"	87°27'44.6351"	2588971.41	547243.38	0.37
19.971	23°24'34.9579"	87°27'44.8601"	2588951.54	547249.83	0.40
19.994	23°24'34.2320"	87°27'45.1172"	2588929.24	547257.20	0.43
20.023	23°24'33.3462"	87°27'45.4397"	2588902.03	547266.44	0.48

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
20.044	23°24'32.7000"	87°27'45.6654"	2588882.18	547272.91	0.45
20.065	23°24'32.0561"	87°27'45.8993"	2588862.40	547279.61	0.43
20.086	23°24'31.4093"	87°27'46.1250"	2588842.53	547286.08	0.42
20.106	23°24'30.7645"	87°27'46.3564"	2588822.72	547292.71	0.45
20.130	23°24'30.0386"	87°27'46.6132"	2588800.42	547300.07	0.48
20.153	23°24'29.3107"	87°27'46.8664"	2588778.06	547307.33	0.50
20.174	23°24'28.6675"	87°27'47.1027"	2588758.30	547314.10	0.50
20.206	23°24'27.6974"	87°27'47.4415"	2588728.50	547323.81	0.51
20.240	23°24'26.6602"	87°27'47.8497"	2588696.64	547335.50	0.52
20.260	23°24'26.0221"	87°27'48.1012"	2588677.04	547342.70	0.53
20.281	23°24'25.3859"	87°27'48.3597"	2588657.50	547350.10	0.53
20.302	23°24'24.7510"	87°27'48.6211"	2588638.00	547357.58	0.53
20.323	23°24'24.1139"	87°27'48.8757"	2588618.43	547364.87	0.53
20.344	23°24'23.4761"	87°27'49.1247"	2588598.84	547372.00	0.53
20.365	23°24'22.8396"	87°27'49.3864"	2588579.29	547379.49	0.53
20.386	23°24'22.2048"	87°27'49.6477"	2588559.79	547386.97	0.53
20.407	23°24'21.5699"	87°27'49.9094"	2588540.29	547394.46	0.53
20.428	23°24'20.9321"	87°27'50.1623"	2588520.70	547401.70	0.53

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
20.448	23°24'20.2950"	87°27'50.4176"	2588501.13	547409.01	0.53
20.469	23°24'19.6601"	87°27'50.6786"	2588481.63	547416.48	0.53
20.490	23°24'19.0223"	87°27'50.9318"	2588462.04	547423.73	0.53
20.511	23°24'18.3845"	87°27'51.1861"	2588442.45	547431.01	0.53
20.532	23°24'17.7500"	87°27'51.4478"	2588422.96	547438.50	0.53
20.553	23°24'17.1151"	87°27'51.7095"	2588403.46	547445.99	0.54
20.574	23°24'16.4767"	87°27'51.9606"	2588383.85	547453.18	0.57
20.597	23°24'15.7504"	87°27'52.2184"	2588361.54	547460.57	0.62
20.631	23°24'14.6993"	87°27'52.5843"	2588329.25	547471.06	0.64
20.652	23°24'14.0525"	87°27'52.8093"	2588309.38	547477.51	0.58
20.673	23°24'13.4086"	87°27'53.0421"	2588289.60	547484.18	0.52
20.694	23°24'12.7657"	87°27'53.2798"	2588269.85	547490.99	0.46
20.715	23°24'12.1195"	87°27'53.5062"	2588250.00	547497.48	0.42
20.736	23°24'11.4673"	87°27'53.7128"	2588229.96	547503.41	0.42
20.757	23°24'10.8169"	87°27'53.9241"	2588209.98	547509.47	0.47
20.777	23°24'10.1743"	87°27'54.1611"	2588190.24	547516.26	0.46
20.798	23°24'9.5311"	87°27'54.3988"	2588170.48	547523.07	0.45
20.819	23°24'8.8884"	87°27'54.6365"	2588150.74	547529.88	0.50

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
20.840	23°24'8.2452"	87°27'54.8734"	2588130.98	547536.67	0.50
20.861	23°24'7.6013"	87°27'55.1087"	2588111.20	547543.41	0.48
20.882	23°24'6.9551"	87°27'55.3343"	2588091.35	547549.88	0.43
20.903	23°24'6.2871"	87°27'55.4655"	2588070.82	547553.67	0.41
20.926	23°24'5.5311"	87°27'55.5869"	2588047.58	547557.19	0.44
20.947	23°24'4.8586"	87°27'55.6867"	2588026.91	547560.09	0.47
20.968	23°24'4.1852"	87°27'55.7866"	2588006.21	547562.99	0.49
20.989	23°24'3.5127"	87°27'55.8867"	2587985.54	547565.90	0.51
21.015	23°24'2.6715"	87°27'56.0120"	2587959.68	547569.54	0.52
21.036	23°24'2.0000"	87°27'56.1249"	2587939.04	547572.81	0.50
21.057	23°24'1.3288"	87°27'56.2371"	2587918.41	547576.06	0.43
21.078	23°24'0.6560"	87°27'56.3379"	2587897.73	547578.99	0.41
21.099	23°23'59.9823"	87°27'56.4300"	2587877.02	547581.67	0.41
21.119	23°23'59.3108"	87°27'56.5397"	2587856.38	547584.85	0.48
21.140	23°23'58.6460"	87°27'56.6903"	2587835.95	547589.19	0.58
21.161	23°23'57.9799"	87°27'56.8373"	2587815.48	547593.43	0.64
21.182	23°23'57.3135"	87°27'56.9756"	2587795.00	547597.42	0.64
21.203	23°23'56.6462"	87°27'57.1135"	2587774.49	547601.40	0.59

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
21.224	23°23'55.9807"	87°27'57.2616"	2587754.04	547605.67	0.51
21.245	23°23'55.3159"	87°27'57.4122"	2587733.61	547610.01	0.40
21.266	23°23'54.6489"	87°27'57.5522"	2587713.11	547614.05	0.38
21.287	23°23'53.9815"	87°27'57.6900"	2587692.60	547618.03	0.38
21.320	23°23'52.8996"	87°27'57.9258"	2587659.35	547624.83	0.39
21.344	23°23'52.1515"	87°27'58.0948"	2587636.36	547629.70	0.43
21.365	23°23'51.4880"	87°27'58.2521"	2587615.97	547634.23	0.45
21.386	23°23'50.8207"	87°27'58.3903"	2587595.46	547638.22	0.51
21.414	23°23'49.9047"	87°27'58.5862"	2587567.31	547643.87	0.51
21.435	23°23'49.2399"	87°27'58.7371"	2587546.88	547648.22	0.45
21.456	23°23'48.5738"	87°27'58.8827"	2587526.41	547652.42	0.45
21.480	23°23'47.8216"	87°27'59.0277"	2587503.29	547656.61	0.46
21.501	23°23'47.1558"	87°27'59.1695"	2587482.83	547660.70	0.46
21.521	23°23'46.5429"	87°27'59.4791"	2587464.01	547669.55	0.45
21.542	23°23'45.9519"	87°27'59.8452"	2587445.87	547680.00	0.44
21.563	23°23'45.3610"	87°28'0.2074"	2587427.73	547690.34	0.43
21.600	23°23'44.3192"	87°28'0.8284"	2587395.75	547708.07	0.43
21.621	23°23'43.7299"	87°28'1.1938"	2587377.66	547718.50	0.37

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
21.652	23°23'42.8450"	87°28'1.7389"	2587350.50	547734.06	0.39
21.673	23°23'42.2492"	87°28'2.0948"	2587332.21	547744.22	0.42
21.707	23°23'41.2856"	87°28'2.6776"	2587302.63	547760.86	0.39
21.728	23°23'40.7018"	87°28'3.0540"	2587284.71	547771.60	0.33
21.749	23°23'40.1186"	87°28'3.4306"	2587266.81	547782.35	0.32
21.788	23°23'39.0242"	87°28'4.1374"	2587233.22	547802.52	0.33
21.809	23°23'38.4410"	87°28'4.5148"	2587215.32	547813.29	0.33
21.832	23°23'37.7844"	87°28'4.9384"	2587195.17	547825.38	0.34
21.853	23°23'37.2012"	87°28'5.3158"	2587177.27	547836.15	0.36
21.877	23°23'36.5451"	87°28'5.7394"	2587157.13	547848.24	0.41
21.903	23°23'35.8230"	87°28'6.2234"	2587134.97	547862.05	0.45
21.924	23°23'35.2696"	87°28'6.6499"	2587117.99	547874.21	0.41
21.945	23°23'34.7187"	87°28'7.0806"	2587101.09	547886.49	0.46
21.965	23°23'34.1676"	87°28'7.5109"	2587084.18	547898.76	0.44
21.986	23°23'33.6125"	87°28'7.9345"	2587067.15	547910.84	0.44
22.007	23°23'33.0610"	87°28'8.3645"	2587050.23	547923.10	0.44
22.028	23°23'32.5102"	87°28'8.7952"	2587033.33	547935.38	0.43
22.065	23°23'31.5425"	87°28'9.5425"	2587003.64	547956.69	0.44

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
22.085	23°23'30.9923"	87°28'9.9722"	2586986.76	547968.94	0.44
22.106	23°23'30.4408"	87°28'10.4032"	2586969.84	547981.23	0.43
22.127	23°23'29.8899"	87°28'10.8342"	2586952.94	547993.52	0.47
22.148	23°23'29.3339"	87°28'11.2568"	2586935.88	548005.57	0.53
22.169	23°23'28.7762"	87°28'11.6772"	2586918.77	548017.56	0.58
22.208	23°23'27.8078"	87°28'12.5725"	2586889.07	548043.07	0.53
22.229	23°23'27.3013"	87°28'13.0625"	2586873.54	548057.03	0.47
22.253	23°23'26.7290"	87°28'13.6112"	2586855.99	548072.66	0.54
22.281	23°23'26.0252"	87°28'14.2759"	2586834.41	548091.60	0.53
22.302	23°23'25.5168"	87°28'14.7645"	2586818.82	548105.52	0.49
22.323	23°23'25.0045"	87°28'15.2475"	2586803.11	548119.28	0.59
22.344	23°23'24.4928"	87°28'15.7322"	2586787.42	548133.09	0.66
22.375	23°23'23.7242"	87°28'16.4541"	2586763.85	548153.66	0.65
22.396	23°23'23.2718"	87°28'17.0035"	2586749.99	548169.30	0.60
22.417	23°23'22.8201"	87°28'17.5529"	2586736.15	548184.94	0.57
22.438	23°23'22.3827"	87°28'18.1154"	2586722.75	548200.95	0.55
22.459	23°23'21.9290"	87°28'18.6637"	2586708.85	548216.56	0.53
22.480	23°23'21.4874"	87°28'19.2230"	2586695.32	548232.48	0.51

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
22.501	23°23'21.0402"	87°28'19.7766"	2586681.62	548248.24	0.49
22.522	23°23'20.5927"	87°28'20.3306"	2586667.91	548264.01	0.46
22.542	23°23'20.1485"	87°28'20.8811"	2586654.30	548279.68	0.44
22.565	23°23'19.6664"	87°28'21.4691"	2586639.53	548296.42	0.42
22.587	23°23'19.1597"	87°28'22.0310"	2586624.00	548312.42	0.41
22.609	23°23'18.7788"	87°28'22.7007"	2586612.35	548331.47	0.40
22.646	23°23'18.1229"	87°28'23.8018"	2586592.28	548362.79	0.41
22.669	23°23'17.7352"	87°28'24.4673"	2586580.42	548381.72	0.41
22.706	23°23'17.0909"	87°28'25.5765"	2586560.71	548413.27	0.42
22.728	23°23'16.7039"	87°28'26.2420"	2586548.87	548432.20	0.42
22.753	23°23'16.2730"	87°28'26.9806"	2586535.69	548453.21	0.43
22.775	23°23'15.8759"	87°28'27.6387"	2586523.54	548471.93	0.43
22.798	23°23'15.4883"	87°28'28.3042"	2586511.68	548490.86	0.42
22.820	23°23'15.1074"	87°28'28.9732"	2586500.03	548509.89	0.42
22.842	23°23'14.7100"	87°28'29.6317"	2586487.87	548528.62	0.42
22.865	23°23'14.3447"	87°28'30.3096"	2586476.70	548547.90	0.41
22.887	23°23'14.0145"	87°28'31.0101"	2586466.61	548567.82	0.41
22.909	23°23'13.6969"	87°28'31.7175"	2586456.91	548587.93	0.41

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
22.932	23°23'13.3793"	87°28'32.4248"	2586447.21	548608.04	0.40
22.954	23°23'13.0526"	87°28'33.1268"	2586437.23	548628.00	0.40
22.976	23°23'12.7331"	87°28'33.8327"	2586427.47	548648.07	0.40
22.998	23°23'12.4175"	87°28'34.5414"	2586417.83	548668.22	0.39
23.021	23°23'12.0876"	87°28'35.2420"	2586407.75	548688.14	0.39
23.043	23°23'11.7577"	87°28'35.9418"	2586397.67	548708.04	0.39
23.065	23°23'11.4372"	87°28'36.6481"	2586387.88	548728.12	0.38
23.088	23°23'11.1166"	87°28'37.3536"	2586378.09	548748.18	0.36
23.110	23°23'10.7965"	87°28'38.0592"	2586368.31	548768.24	0.33
23.132	23°23'10.4711"	87°28'38.7626"	2586358.37	548788.24	0.30
23.155	23°23'10.1431"	87°28'39.4638"	2586348.35	548808.18	0.28
23.177	23°23'9.8690"	87°28'40.1903"	2586339.99	548828.83	0.26
23.199	23°23'9.6544"	87°28'40.9413"	2586333.46	548850.17	0.24
23.221	23°23'9.4473"	87°28'41.6677"	2586327.16	548870.81	0.23
23.242	23°23'9.2507"	87°28'42.3811"	2586321.18	548891.08	0.22
23.263	23°23'9.0488"	87°28'43.0944"	2586315.04	548911.35	0.21
23.284	23°23'8.8493"	87°28'43.8078"	2586308.97	548931.62	0.20
23.306	23°23'8.6458"	87°28'44.5194"	2586302.78	548951.84	0.20

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
23.327	23°23'8.4430"	87°28'45.2313"	2586296.61	548972.07	0.20
23.347	23°23'8.2504"	87°28'45.9045"	2586290.75	548991.20	0.20
23.369	23°23'8.0523"	87°28'46.6563"	2586284.73	549012.56	0.20
23.391	23°23'7.8299"	87°28'47.4006"	2586277.96	549033.71	0.20
23.413	23°23'7.6240"	87°28'48.1467"	2586271.70	549054.91	0.20
23.433	23°23'7.4814"	87°28'48.8345"	2586267.38	549074.45	0.20
23.455	23°23'7.2408"	87°28'49.5706"	2586260.05	549095.37	0.20
23.482	23°23'6.9276"	87°28'50.4456"	2586250.50	549120.24	0.20
23.504	23°23'6.6704"	87°28'51.1637"	2586242.66	549140.65	0.20
23.526	23°23'6.4136"	87°28'51.8994"	2586234.83	549161.56	0.20
23.548	23°23'6.1628"	87°28'52.6372"	2586227.19	549182.53	0.20
23.573	23°23'5.8713"	87°28'53.4503"	2586218.30	549205.64	0.22
23.596	23°23'5.6124"	87°28'54.1863"	2586210.41	549226.56	0.24
23.618	23°23'5.3624"	87°28'54.9245"	2586202.79	549247.54	0.27
23.640	23°23'5.1110"	87°28'55.6627"	2586195.13	549268.52	0.30
23.668	23°23'4.7899"	87°28'56.5588"	2586185.34	549293.99	0.34
23.690	23°23'4.5278"	87°28'57.2920"	2586177.35	549314.83	0.37
23.717	23°23'4.2216"	87°28'58.1945"	2586168.02	549340.48	0.41

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
23.739	23°23'3.9709"	87°28'58.9323"	2586160.38	549361.45	0.44
23.774	23°23'3.5547"	87°29'0.0694"	2586147.69	549393.77	0.48
23.796	23°23'3.2930"	87°29'0.8015"	2586139.71	549414.58	0.48
23.819	23°23'3.0419"	87°29'1.5407"	2586132.06	549435.59	0.47
23.841	23°23'2.8019"	87°29'2.2818"	2586124.75	549456.65	0.45
23.863	23°23'2.5512"	87°29'3.0210"	2586117.11	549477.66	0.43
23.886	23°23'2.3005"	87°29'3.7588"	2586109.47	549498.63	0.41
23.908	23°23'2.0449"	87°29'4.4952"	2586101.68	549519.56	0.40
23.930	23°23'1.8065"	87°29'5.2380"	2586094.42	549540.67	0.40
23.960	23°23'1.4773"	87°29'6.2242"	2586084.39	549568.70	0.43
23.983	23°23'1.2266"	87°29'6.9624"	2586076.75	549589.68	0.45
24.015	23°23'0.8646"	87°29'8.0285"	2586065.72	549619.98	0.46
24.037	23°23'0.6145"	87°29'8.7666"	2586058.10	549640.96	0.45
24.059	23°23'0.3738"	87°29'9.5087"	2586050.77	549662.05	0.43
24.082	23°23'0.1195"	87°29'10.2447"	2586043.02	549682.97	0.42
24.104	23°22'59.8675"	87°29'10.9822"	2586035.34	549703.93	0.41
24.126	23°22'59.6262"	87°29'11.7243"	2586027.99	549725.02	0.40
24.149	23°22'59.3690"	87°29'12.4596"	2586020.15	549745.92	0.39

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
24.171	23°22'59.1241"	87°29'13.1999"	2586012.69	549766.96	0.39
24.193	23°22'58.8805"	87°29'13.9409"	2586005.27	549788.02	0.41
24.231	23°22'58.4663"	87°29'15.1720"	2585992.65	549823.01	0.43
24.270	23°22'58.0196"	87°29'16.4836"	2585979.04	549860.29	0.44
24.312	23°22'57.5545"	87°29'17.8812"	2585964.87	549900.01	0.45
24.345	23°22'57.1951"	87°29'18.9479"	2585953.92	549930.33	0.46
24.367	23°22'56.9388"	87°29'19.6833"	2585946.11	549951.23	0.46
24.389	23°22'56.7118"	87°29'20.4303"	2585939.20	549972.46	0.46
24.412	23°22'56.4786"	87°29'21.1752"	2585932.10	549993.63	0.46
24.434	23°22'56.2444"	87°29'21.9194"	2585924.97	550014.78	0.46
24.456	23°22'56.0177"	87°29'22.6668"	2585918.07	550036.02	0.46
24.479	23°22'55.7909"	87°29'23.4135"	2585911.17	550057.24	0.46
24.501	23°22'55.5642"	87°29'24.1605"	2585904.27	550078.47	0.46
24.523	23°22'55.3378"	87°29'24.9083"	2585897.38	550099.72	0.46
24.546	23°22'55.1020"	87°29'25.6518"	2585890.20	550120.85	0.46
24.568	23°22'54.8740"	87°29'26.3988"	2585883.26	550142.08	0.46
24.590	23°22'54.6431"	87°29'27.1437"	2585876.23	550163.25	0.46
24.613	23°22'54.4235"	87°29'27.8932"	2585869.55	550184.55	0.46

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
24.635	23°22'54.1848"	87°29'28.6360"	2585862.28	550205.66	0.46
24.657	23°22'53.9496"	87°29'29.3802"	2585855.12	550226.81	0.46
24.679	23°22'53.7225"	87°29'30.1269"	2585848.21	550248.03	0.46
24.702	23°22'53.4887"	87°29'30.8714"	2585841.09	550269.19	0.43
24.724	23°22'53.2620"	87°29'31.6185"	2585834.19	550290.42	0.41
24.746	23°22'53.0297"	87°29'32.3637"	2585827.12	550311.60	0.41
24.771	23°22'52.7761"	87°29'33.1931"	2585819.40	550335.17	0.45
24.813	23°22'52.3385"	87°29'34.6013"	2585806.08	550375.19	0.48
24.838	23°22'52.0819"	87°29'35.4292"	2585798.27	550398.72	0.55
24.868	23°22'51.7786"	87°29'36.4254"	2585789.04	550427.03	0.55
24.890	23°22'51.5519"	87°29'37.1720"	2585782.14	550448.25	0.54
24.913	23°22'51.3193"	87°29'37.9173"	2585775.06	550469.43	0.51
24.935	23°22'51.0864"	87°29'38.6622"	2585767.97	550490.60	0.49
24.957	23°22'50.8600"	87°29'39.4089"	2585761.08	550511.82	0.44
24.980	23°22'50.6212"	87°29'40.1520"	2585753.81	550532.94	0.40
25.017	23°22'50.2378"	87°29'41.3951"	2585742.14	550568.27	0.45
25.039	23°22'49.9991"	87°29'42.1379"	2585734.87	550589.38	0.41
25.061	23°22'49.7658"	87°29'42.8824"	2585727.77	550610.54	0.36

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
25.084	23°22'49.5358"	87°29'43.6283"	2585720.77	550631.74	0.35
25.106	23°22'49.2971"	87°29'44.3711"	2585713.50	550652.85	0.41
25.128	23°22'49.0661"	87°29'45.1160"	2585706.47	550674.02	0.39
25.151	23°22'48.8309"	87°29'45.8602"	2585699.31	550695.17	0.36
25.173	23°22'48.5964"	87°29'46.6047"	2585692.17	550716.33	0.36
25.195	23°22'48.3635"	87°29'47.3496"	2585685.08	550737.50	0.35
25.218	23°22'48.1247"	87°29'48.0923"	2585677.81	550758.61	0.35
25.240	23°22'47.8941"	87°29'48.8379"	2585670.79	550779.80	0.37
25.265	23°22'47.6339"	87°29'49.6648"	2585662.87	550803.30	0.39
25.297	23°22'47.2907"	87°29'50.7383"	2585652.42	550833.81	0.45
25.319	23°22'47.0603"	87°29'51.4839"	2585645.41	550855.00	0.50
25.355	23°22'46.6816"	87°29'52.6794"	2585633.88	550888.98	0.44
25.376	23°22'46.4615"	87°29'53.3853"	2585627.18	550909.04	0.39
25.398	23°22'46.2346"	87°29'54.0882"	2585620.27	550929.02	0.38
25.419	23°22'46.0200"	87°29'54.7962"	2585613.74	550949.14	0.38
25.440	23°22'45.7950"	87°29'55.5002"	2585606.89	550969.15	0.39
25.461	23°22'45.5687"	87°29'56.2039"	2585600.00	550989.15	0.37
25.487	23°22'45.3051"	87°29'57.0685"	2585591.98	551013.72	0.39

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
25.508	23°22'45.0804"	87°29'57.7725"	2585585.14	551033.73	0.36
25.529	23°22'44.8548"	87°29'58.4762"	2585578.27	551053.73	0.35
25.550	23°22'44.6343"	87°29'59.1824"	2585571.56	551073.80	0.40
25.583	23°22'44.2793"	87°30'0.2748"	2585560.75	551104.85	0.38
25.604	23°22'44.0530"	87°30'0.9788"	2585553.86	551124.86	0.38
25.633	23°22'43.7551"	87°30'1.9179"	2585544.79	551151.55	0.39
25.654	23°22'43.5275"	87°30'2.6209"	2585537.86	551171.53	0.35
25.675	23°22'43.3012"	87°30'3.3249"	2585530.97	551191.54	0.37
25.698	23°22'43.0499"	87°30'4.1067"	2585523.32	551213.76	0.40
25.729	23°22'42.7234"	87°30'5.1228"	2585513.38	551242.64	0.37
25.750	23°22'42.4971"	87°30'5.8261"	2585506.49	551262.63	0.33
25.790	23°22'42.0675"	87°30'7.1547"	2585493.41	551300.39	0.34
25.814	23°22'41.8169"	87°30'7.9364"	2585485.78	551322.61	0.35
25.835	23°22'41.5906"	87°30'8.6401"	2585478.89	551342.61	0.38
25.856	23°22'41.3646"	87°30'9.3434"	2585472.01	551362.60	0.45
25.889	23°22'41.0122"	87°30'10.4376"	2585461.28	551393.70	0.45
25.910	23°22'40.7862"	87°30'11.1417"	2585454.40	551413.71	0.43
25.931	23°22'40.5599"	87°30'11.8446"	2585447.51	551433.69	0.39

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
25.952	23°22'40.3336"	87°30'12.5486"	2585440.62	551453.70	0.48
25.990	23°22'39.9377"	87°30'13.8019"	2585428.57	551489.32	0.48
26.011	23°22'39.7062"	87°30'14.5034"	2585421.52	551509.26	0.43
26.044	23°22'39.3502"	87°30'15.5959"	2585410.68	551540.31	0.42
26.065	23°22'39.1242"	87°30'16.2999"	2585403.80	551560.32	0.40
26.086	23°22'38.8979"	87°30'17.0028"	2585396.91	551580.30	0.39
26.107	23°22'38.6793"	87°30'17.7090"	2585390.26	551600.37	0.38
26.140	23°22'38.3272"	87°30'18.8039"	2585379.54	551631.49	0.41
26.161	23°22'38.1012"	87°30'19.5072"	2585372.66	551651.48	0.40
26.182	23°22'37.8863"	87°30'20.2151"	2585366.12	551671.60	0.39
26.204	23°22'37.6612"	87°30'20.9192"	2585359.27	551691.61	0.39
26.229	23°22'37.3853"	87°30'21.7790"	2585350.87	551716.05	0.43
26.262	23°22'37.0432"	87°30'22.8771"	2585340.46	551747.26	0.44
26.284	23°22'36.8172"	87°30'23.5808"	2585333.58	551767.26	0.41
26.305	23°22'36.5945"	87°30'24.2855"	2585326.80	551787.29	0.38
26.326	23°22'36.3795"	87°30'24.9931"	2585320.26	551807.40	0.38
26.349	23°22'36.1237"	87°30'25.7731"	2585312.47	551829.57	0.45
26.370	23°22'35.9068"	87°30'26.4799"	2585305.87	551849.66	0.47

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
26.392	23°22'35.6824"	87°30'27.1843"	2585299.04	551869.68	0.47
26.413	23°22'35.4564"	87°30'27.8883"	2585292.16	551889.69	0.41
26.434	23°22'35.2300"	87°30'28.5920"	2585285.27	551909.69	0.38
26.455	23°22'35.0144"	87°30'29.2978"	2585278.71	551929.75	0.38
26.476	23°22'34.7874"	87°30'30.0021"	2585271.80	551949.77	0.38
26.497	23°22'34.5647"	87°30'30.7069"	2585265.02	551969.80	0.36
26.519	23°22'34.3497"	87°30'31.4148"	2585258.48	551989.92	0.35
26.540	23°22'34.1188"	87°30'32.1163"	2585251.45	552009.86	0.41
26.561	23°22'33.9039"	87°30'32.8242"	2585244.91	552029.98	0.40
26.582	23°22'33.6840"	87°30'33.5300"	2585238.22	552050.04	0.39
26.620	23°22'33.2985"	87°30'34.7868"	2585226.49	552085.76	0.39
26.641	23°22'33.0861"	87°30'35.4954"	2585220.03	552105.90	0.41
26.674	23°22'32.7365"	87°30'36.5907"	2585209.39	552137.03	0.42
26.695	23°22'32.5122"	87°30'37.2950"	2585202.56	552157.05	0.40
26.716	23°22'32.2972"	87°30'38.0022"	2585196.02	552177.15	0.38
26.746	23°22'31.9823"	87°30'39.0229"	2585186.44	552206.16	0.39
26.768	23°22'31.7544"	87°30'39.7258"	2585179.50	552226.14	0.38
26.800	23°22'31.4200"	87°30'40.8264"	2585169.33	552257.42	0.41

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
26.822	23°22'31.2047"	87°30'41.5343"	2585162.78	552277.54	0.41
26.843	23°22'30.9784"	87°30'42.2376"	2585155.89	552297.53	0.39
26.864	23°22'30.7563"	87°30'42.9427"	2585149.13	552317.57	0.39
26.885	23°22'30.5468"	87°30'43.6524"	2585142.76	552337.74	0.39
26.920	23°22'30.1518"	87°30'44.8179"	2585130.73	552370.87	0.41
26.941	23°22'29.9027"	87°30'45.5119"	2585123.14	552390.60	0.39
26.977	23°22'29.4882"	87°30'46.6699"	2585110.51	552423.52	0.41
27.017	23°22'29.0186"	87°30'47.9817"	2585096.20	552460.81	0.41
27.045	23°22'28.6868"	87°30'48.9079"	2585086.09	552487.14	0.44
27.066	23°22'28.4458"	87°30'49.6058"	2585078.75	552506.98	0.38
27.087	23°22'28.2006"	87°30'50.3020"	2585071.28	552526.77	0.36
27.113	23°22'27.8912"	87°30'51.1483"	2585061.85	552550.83	0.36
27.134	23°22'27.6388"	87°30'51.8413"	2585054.16	552570.53	0.36
27.169	23°22'27.2354"	87°30'53.0029"	2585041.87	552603.55	0.38
27.195	23°22'26.9311"	87°30'53.8520"	2585032.60	552627.69	0.41
27.219	23°22'26.6545"	87°30'54.6238"	2585024.17	552649.63	0.47
27.245	23°22'26.3509"	87°30'55.4726"	2585014.92	552673.76	0.49
27.266	23°22'26.1018"	87°30'56.1673"	2585007.33	552693.51	0.46

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
27.287	23°22'25.8595"	87°30'56.8645"	2584999.95	552713.33	0.45
27.308	23°22'25.6218"	87°30'57.5635"	2584992.71	552733.20	0.42
27.329	23°22'25.3805"	87°30'58.2608"	2584985.36	552753.02	0.37
27.350	23°22'25.1443"	87°30'58.9605"	2584978.17	552772.91	0.36
27.371	23°22'24.9060"	87°30'59.6595"	2584970.91	552792.78	0.35
27.393	23°22'24.6682"	87°31'0.3585"	2584963.67	552812.65	0.39
27.414	23°22'24.4308"	87°31'1.0578"	2584956.44	552832.53	0.45
27.435	23°22'24.1927"	87°31'1.7565"	2584949.19	552852.39	0.45
27.456	23°22'23.9530"	87°31'2.4555"	2584941.89	552872.26	0.37
27.477	23°22'23.7163"	87°31'3.1545"	2584934.68	552892.13	0.32
27.498	23°22'23.4785"	87°31'3.8535"	2584927.44	552912.00	0.31
27.520	23°22'23.2408"	87°31'4.5525"	2584920.20	552931.87	0.31
27.541	23°22'23.0034"	87°31'5.2518"	2584912.97	552951.75	0.33
27.564	23°22'22.7394"	87°31'6.0282"	2584904.93	552973.82	0.38
27.585	23°22'22.4935"	87°31'6.7243"	2584897.44	552993.61	0.45
27.609	23°22'22.2269"	87°31'7.4997"	2584889.32	553015.65	0.42
27.630	23°22'21.9716"	87°31'8.1915"	2584881.54	553035.32	0.40
27.668	23°22'21.5227"	87°31'9.4234"	2584867.86	553070.34	0.44

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
27.689	23°22'21.2735"	87°31'10.1181"	2584860.27	553090.09	0.40
27.710	23°22'21.0199"	87°31'10.8103"	2584852.54	553109.77	0.39
27.731	23°22'20.7662"	87°31'11.5029"	2584844.81	553129.46	0.37
27.752	23°22'20.5194"	87°31'12.1976"	2584837.29	553149.21	0.37
27.773	23°22'20.2677"	87°31'12.8913"	2584829.62	553168.93	0.38
27.794	23°22'20.0442"	87°31'13.5942"	2584822.82	553188.91	0.38
27.816	23°22'19.8756"	87°31'14.3160"	2584817.71	553209.42	0.38
27.853	23°22'19.5751"	87°31'15.6001"	2584808.60	553245.91	0.42
27.874	23°22'19.3994"	87°31'16.3198"	2584803.27	553266.36	0.38
27.914	23°22'19.0752"	87°31'17.6824"	2584793.44	553305.08	0.41
27.942	23°22'18.8486"	87°31'18.6449"	2584786.57	553332.43	0.46
27.964	23°22'18.6738"	87°31'19.3656"	2584781.27	553352.91	0.42
27.997	23°22'18.4077"	87°31'20.4883"	2584773.20	553384.81	0.45
28.018	23°22'18.2073"	87°31'21.2004"	2584767.11	553405.05	0.43
28.039	23°22'18.0039"	87°31'21.9122"	2584760.93	553425.28	0.40
28.060	23°22'17.7899"	87°31'22.6219"	2584754.42	553445.45	0.39
28.086	23°22'17.5395"	87°31'23.4906"	2584746.81	553470.14	0.44
28.107	23°22'17.3362"	87°31'24.2024"	2584740.63	553490.37	0.43

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
28.128	23°22'17.1266"	87°31'24.9120"	2584734.26	553510.54	0.39
28.152	23°22'16.9006"	87°31'25.7030"	2584727.39	553533.02	0.45
28.185	23°22'16.5815"	87°31'26.8088"	2584717.69	553564.45	0.47
28.206	23°22'16.3690"	87°31'27.5160"	2584711.23	553584.55	0.44
28.239	23°22'16.0505"	87°31'28.6218"	2584701.55	553615.98	0.40
28.260	23°22'15.8362"	87°31'29.3297"	2584695.03	553636.10	0.38
28.281	23°22'15.6244"	87°31'30.0383"	2584688.59	553656.24	0.37
28.302	23°22'15.4096"	87°31'30.7465"	2584682.06	553676.37	0.40
28.342	23°22'15.0094"	87°31'32.0852"	2584669.89	553714.42	0.41
28.364	23°22'14.7920"	87°31'32.8117"	2584663.28	553735.07	0.37
28.384	23°22'14.5822"	87°31'33.5013"	2584656.90	553754.67	0.37
28.405	23°22'14.3740"	87°31'34.2109"	2584650.57	553774.84	0.36
28.441	23°22'13.9549"	87°31'35.3664"	2584637.80	553807.69	0.40
28.462	23°22'13.7015"	87°31'36.0590"	2584630.08	553827.38	0.37
28.483	23°22'13.4481"	87°31'36.7515"	2584622.36	553847.07	0.35
28.504	23°22'13.1899"	87°31'37.4402"	2584614.49	553866.65	0.35
28.525	23°22'12.9372"	87°31'38.1349"	2584606.79	553886.40	0.34
28.546	23°22'12.6776"	87°31'38.8246"	2584598.88	553906.01	0.35

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
28.568	23°22'12.4178"	87°31'39.5143"	2584590.96	553925.62	0.36
28.589	23°22'12.1572"	87°31'40.2037"	2584583.02	553945.22	0.35
28.629	23°22'11.6628"	87°31'41.5053"	2584567.95	553982.23	0.36
28.650	23°22'11.4000"	87°31'42.1936"	2584559.94	554001.80	0.33
28.671	23°22'11.1405"	87°31'42.8834"	2584552.03	554021.41	0.30
28.692	23°22'10.8764"	87°31'43.5709"	2584543.98	554040.96	0.28
28.713	23°22'10.6188"	87°31'44.2617"	2584536.13	554060.60	0.27
28.734	23°22'10.3316"	87°31'44.9358"	2584527.37	554079.77	0.26
28.755	23°22'9.9760"	87°31'45.5730"	2584516.50	554097.90	0.25
28.777	23°22'9.6194"	87°31'46.2102"	2584505.60	554116.03	0.25
28.798	23°22'9.2674"	87°31'46.8495"	2584494.84	554134.22	0.24
28.819	23°22'8.9098"	87°31'47.4864"	2584483.91	554152.34	0.24
28.840	23°22'8.5682"	87°31'48.1155"	2584473.47	554170.24	0.24
28.862	23°22'8.1942"	87°31'48.7833"	2584462.04	554189.24	0.23
28.884	23°22'7.8206"	87°31'49.4535"	2584450.62	554208.31	0.23
28.906	23°22'7.4356"	87°31'50.1131"	2584438.85	554227.08	0.23
28.928	23°22'7.0156"	87°31'50.7490"	2584426.00	554245.18	0.23
28.951	23°22'6.5927"	87°31'51.3827"	2584413.06	554263.22	0.23

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
28.973	23°22'6.1662"	87°31'52.0133"	2584400.01	554281.17	0.23
28.995	23°22'5.7484"	87°31'52.6506"	2584387.23	554299.31	0.22
29.017	23°22'5.3226"	87°31'53.2819"	2584374.20	554317.28	0.22
29.039	23°22'4.8958"	87°31'53.9124"	2584361.14	554335.23	0.22
29.062	23°22'4.4757"	87°31'54.5458"	2584348.29	554353.26	0.22
29.084	23°22'4.0661"	87°31'55.1909"	2584335.76	554371.62	0.22
29.106	23°22'3.6497"	87°31'55.8299"	2584323.02	554389.81	0.22
29.128	23°22'3.2410"	87°31'56.4736"	2584310.52	554408.13	0.22
29.150	23°22'2.8148"	87°31'57.1049"	2584297.48	554426.10	0.22
29.173	23°22'2.4094"	87°31'57.7510"	2584285.08	554444.49	0.21
29.195	23°22'2.0033"	87°31'58.3961"	2584272.66	554462.85	0.21
29.217	23°22'1.5869"	87°31'59.0358"	2584259.92	554481.06	0.21
29.239	23°22'1.1798"	87°31'59.6813"	2584247.47	554499.43	0.21
29.261	23°22'0.7637"	87°32'0.3203"	2584234.74	554517.62	0.21
29.284	23°22'0.3472"	87°32'0.9586"	2584222.00	554535.79	0.21
29.306	23°21'59.9379"	87°32'1.6023"	2584209.48	554554.11	0.21
29.328	23°21'59.5263"	87°32'2.2445"	2584196.89	554572.39	0.21
29.350	23°21'59.1102"	87°32'2.8836"	2584184.16	554590.58	0.21

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
29.372	23°21'58.7038"	87°32'3.5290"	2584171.73	554608.95	0.21
29.394	23°21'58.3048"	87°32'4.1804"	2584159.53	554627.49	0.21
29.417	23°21'57.9010"	87°32'4.8287"	2584147.18	554645.94	0.21
29.439	23°21'57.4972"	87°32'5.4766"	2584134.83	554664.38	0.21
29.461	23°21'57.0934"	87°32'6.1230"	2584122.48	554682.78	0.21
29.481	23°21'56.7272"	87°32'6.7059"	2584111.28	554699.37	0.20
29.503	23°21'56.3283"	87°32'7.3570"	2584099.08	554717.90	0.20
29.525	23°21'55.9228"	87°32'8.0035"	2584086.68	554736.30	0.20
29.548	23°21'55.5226"	87°32'8.6542"	2584074.44	554754.82	0.20
29.570	23°21'55.1168"	87°32'9.3003"	2584062.03	554773.21	0.20
29.592	23°21'54.7172"	87°32'9.9514"	2584049.81	554791.74	0.20
29.614	23°21'54.3124"	87°32'10.5989"	2584037.43	554810.17	0.20
29.636	23°21'53.8924"	87°32'11.2344"	2584024.58	554828.26	0.20
29.657	23°21'53.4943"	87°32'11.8316"	2584012.40	554845.26	0.20
29.678	23°21'53.0975"	87°32'12.4288"	2584000.26	554862.26	0.20
29.699	23°21'52.6916"	87°32'13.0185"	2583987.84	554879.05	0.20
29.719	23°21'52.3072"	87°32'13.6031"	2583976.08	554895.69	0.20
29.740	23°21'52.7118"	87°32'14.8068"	2583988.65	554929.82	47.13

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
29.760	23°21'52.3375"	87°32'15.3847"	2583977.20	554946.27	46.94
29.780	23°21'51.9473"	87°32'15.9457"	2583965.26	554962.24	47.15
29.800	23°21'51.5652"	87°32'16.5151"	2583953.57	554978.45	47.37
29.820	23°21'51.1831"	87°32'17.0845"	2583941.88	554994.66	46.98
29.840	23°21'50.8007"	87°32'17.6539"	2583930.18	555010.87	47.17
29.860	23°21'50.4263"	87°32'18.2318"	2583918.73	555027.32	46.94
29.880	23°21'50.0365"	87°32'18.7927"	2583906.80	555043.29	47.15
29.900	23°21'49.6544"	87°32'19.3621"	2583895.11	555059.50	47.36
29.920	23°21'49.2801"	87°32'19.9404"	2583883.66	555075.96	47.04
29.940	23°21'48.8899"	87°32'20.5013"	2583871.72	555091.93	46.85
29.959	23°21'48.5036"	87°32'21.0672"	2583859.90	555108.04	46.95
29.979	23°21'48.1075"	87°32'21.6253"	2583847.78	555123.93	46.85
29.999	23°21'47.7193"	87°32'22.1922"	2583835.90	555140.07	47.14
30.019	23°21'47.3229"	87°32'22.7503"	2583823.77	555155.96	47.04
30.039	23°21'46.9191"	87°32'23.2998"	2583811.41	555171.61	47.26
30.059	23°21'46.5230"	87°32'23.8579"	2583799.29	555187.50	47.36
30.079	23°21'46.1270"	87°32'24.4160"	2583787.17	555203.39	47.25
30.099	23°21'45.7309"	87°32'24.9744"	2583775.05	555219.29	47.15

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
30.119	23°21'45.3346"	87°32'25.5325"	2583762.92	555235.18	47.07
30.139	23°21'44.9385"	87°32'26.0906"	2583750.80	555251.07	46.97
30.159	23°21'44.5425"	87°32'26.6486"	2583738.68	555266.96	46.88
30.179	23°21'44.1464"	87°32'27.2071"	2583726.56	555282.86	47.18
30.199	23°21'43.7504"	87°32'27.7651"	2583714.44	555298.75	47.06
30.219	23°21'43.3543"	87°32'28.3232"	2583702.32	555314.64	46.96
30.239	23°21'42.9580"	87°32'28.8813"	2583690.19	555330.53	47.25
30.259	23°21'42.5619"	87°32'29.4397"	2583678.07	555346.43	47.35
30.279	23°21'42.1659"	87°32'29.9978"	2583665.95	555362.32	47.23
30.300	23°21'41.7760"	87°32'30.5608"	2583654.02	555378.35	47.27
30.320	23°21'41.4072"	87°32'31.1404"	2583642.74	555394.85	47.17
30.340	23°21'41.0384"	87°32'31.7201"	2583631.46	555411.35	47.27
30.360	23°21'40.6696"	87°32'32.2997"	2583620.18	555427.85	47.17
30.380	23°21'40.3007"	87°32'32.8794"	2583608.90	555444.35	47.27
30.400	23°21'39.9319"	87°32'33.4591"	2583597.62	555460.85	47.17
30.420	23°21'39.5631"	87°32'34.0387"	2583586.34	555477.35	47.27
30.440	23°21'39.1943"	87°32'34.6184"	2583575.06	555493.85	47.17
30.460	23°21'38.8255"	87°32'35.1980"	2583563.78	555510.35	47.27

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
30.480	23°21'38.4567"	87°32'35.7777"	2583552.50	555526.85	47.17
30.500	23°21'38.0879"	87°32'36.3573"	2583541.22	555543.35	47.27
30.520	23°21'37.7190"	87°32'36.9370"	2583529.94	555559.85	47.17
30.540	23°21'37.3502"	87°32'37.5166"	2583518.66	555576.35	47.27
30.560	23°21'36.9814"	87°32'38.0963"	2583507.38	555592.85	47.17
30.580	23°21'36.6126"	87°32'38.6759"	2583496.10	555609.35	47.27
30.600	23°21'36.2435"	87°32'39.2556"	2583484.81	555625.85	47.17
30.620	23°21'35.8746"	87°32'39.8352"	2583473.53	555642.35	47.27
30.640	23°21'35.5058"	87°32'40.4149"	2583462.25	555658.85	47.17
30.661	23°21'35.1380"	87°32'40.9952"	2583451.00	555675.37	47.27
30.681	23°21'34.7808"	87°32'41.5834"	2583440.08	555692.11	47.03
30.701	23°21'34.4237"	87°32'42.1715"	2583429.16	555708.85	47.17
30.721	23°21'34.0743"	87°32'42.7681"	2583418.48	555725.83	47.24
30.741	23°21'33.7168"	87°32'43.3563"	2583407.55	555742.57	47.24
30.761	23°21'33.3519"	87°32'43.9359"	2583396.39	555759.07	46.98
30.781	23°21'32.9948"	87°32'44.5241"	2583385.47	555775.81	47.07
30.801	23°21'32.6373"	87°32'45.1122"	2583374.54	555792.55	47.27
30.821	23°21'32.2802"	87°32'45.7000"	2583363.62	555809.28	47.15

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
30.841	23°21'31.9308"	87°32'46.2970"	2583352.94	555826.27	46.94
30.865	23°21'31.6184"	87°32'46.9121"	2583343.40	555843.77	47.24
30.885	23°21'31.3369"	87°32'47.5421"	2583334.81	555861.69	46.95
30.905	23°21'31.0631"	87°32'48.1806"	2583326.46	555879.85	47.17
30.925	23°21'30.7891"	87°32'48.8187"	2583318.10	555898.00	46.87
30.945	23°21'30.5153"	87°32'49.4572"	2583309.75	555916.16	47.08
30.965	23°21'30.2493"	87°32'50.1042"	2583301.64	555934.56	47.24
30.985	23°21'29.9756"	87°32'50.7426"	2583293.29	555952.72	47.34
31.005	23°21'29.6937"	87°32'51.3726"	2583284.69	555970.64	46.95
31.025	23°21'29.4199"	87°32'52.0111"	2583276.34	555988.80	47.05
31.045	23°21'29.1462"	87°32'52.6496"	2583267.99	556006.96	46.88
31.067	23°21'28.8838"	87°32'53.2881"	2583259.99	556025.12	47.29
31.087	23°21'28.6694"	87°32'53.9639"	2583253.47	556044.33	46.94
31.107	23°21'28.4314"	87°32'54.6134"	2583246.22	556062.80	47.06
31.127	23°21'28.2092"	87°32'55.2806"	2583239.46	556081.77	47.24
31.147	23°21'27.9712"	87°32'55.9302"	2583232.21	556100.24	47.16
31.167	23°21'27.7409"	87°32'56.5886"	2583225.20	556118.96	46.88
31.187	23°21'27.5188"	87°32'57.2554"	2583218.44	556137.92	46.94

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
31.211	23°21'27.2807"	87°32'57.9053"	2583211.19	556156.40	47.26
31.232	23°21'27.1573"	87°32'58.6032"	2583207.47	556176.23	46.84
31.251	23°21'27.0219"	87°32'59.2849"	2583203.38	556195.60	47.26
31.271	23°21'26.8940"	87°32'59.9751"	2583199.52	556215.21	47.06
31.292	23°21'26.7742"	87°33'00.6737"	2583195.91	556235.06	47.14
31.311	23°21'26.6388"	87°33'01.3553"	2583191.82	556254.43	47.36
31.334	23°21'26.5111"	87°33'02.0459"	2583187.97	556274.05	46.97
31.354	23°21'26.4095"	87°33'02.7400"	2583184.92	556293.77	47.07
31.374	23°21'26.3544"	87°33'03.4413"	2583183.30	556313.69	46.95
31.395	23°21'26.3073"	87°33'04.1516"	2583181.93	556333.86	46.94
31.414	23°21'26.2447"	87°33'04.8444"	2583180.08	556353.54	47.25
31.434	23°21'26.1896"	87°33'05.5458"	2583178.46	556373.46	47.38
31.455	23°21'26.1425"	87°33'06.2560"	2583177.09	556393.63	47.24
31.474	23°21'26.0799"	87°33'06.9485"	2583175.24	556413.30	47.17
31.498	23°21'26.0329"	87°33'07.6587"	2583173.87	556433.47	47.14
31.517	23°21'26.0486"	87°33'08.3537"	2583174.43	556453.20	47.05
31.537	23°21'26.0725"	87°33'09.0572"	2583175.24	556473.17	47.08
31.557	23°21'26.0967"	87°33'09.7606"	2583176.06	556493.14	47.05

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
31.577	23°21'26.1208"	87°33'10.4641"	2583176.88	556513.11	47.03
31.597	23°21'26.1528"	87°33'11.1760"	2583177.94	556533.32	46.94
31.617	23°21'26.1689"	87°33'11.8710"	2583178.51	556553.05	46.97
31.640	23°21'26.2008"	87°33'12.5833"	2583179.57	556573.27	46.94
31.660	23°21'26.2859"	87°33'13.2708"	2583182.26	556592.78	47.07
31.680	23°21'26.3878"	87°33'13.9661"	2583185.47	556612.51	47.37
31.700	23°21'26.4900"	87°33'14.6611"	2583188.69	556632.23	47.15
31.720	23°21'26.5923"	87°33'15.3564"	2583191.91	556651.96	46.88
31.740	23°21'26.7023"	87°33'16.0602"	2583195.37	556671.93	46.94
31.759	23°21'26.8045"	87°33'16.7555"	2583198.59	556691.66	47.34
31.779	23°21'26.8886"	87°33'17.4536"	2583201.25	556711.47	47.14
31.799	23°21'26.9648"	87°33'18.1428"	2583203.67	556731.03	46.95
31.819	23°21'27.0488"	87°33'18.8409"	2583206.33	556750.84	47.16
31.839	23°21'27.1332"	87°33'19.5390"	2583209.00	556770.65	46.97
31.859	23°21'27.2172"	87°33'20.2370"	2583211.66	556790.46	47.38
31.879	23°21'27.3012"	87°33'20.9351"	2583214.32	556810.27	47.17
31.903	23°21'27.3856"	87°33'21.6332"	2583216.99	556830.08	46.97
31.923	23°21'27.5669"	87°33'22.3070"	2583222.64	556849.19	47.05

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
31.943	23°21'27.7739"	87°33'22.9742"	2583229.08	556868.11	46.96
31.963	23°21'27.9810"	87°33'23.6415"	2583235.52	556887.03	46.95
31.983	23°21'28.1877"	87°33'24.3087"	2583241.95	556905.95	46.88
32.003	23°21'28.3947"	87°33'24.9763"	2583248.39	556924.88	47.18
32.023	23°21'28.6018"	87°33'25.6435"	2583254.83	556943.80	47.05
32.043	23°21'28.8166"	87°33'26.3193"	2583261.51	556962.96	47.04
32.066	23°21'29.0155"	87°33'26.9780"	2583267.70	556981.64	46.97
32.085	23°21'29.2428"	87°33'27.6358"	2583274.76	557000.29	47.16
32.105	23°21'29.5537"	87°33'28.2542"	2583284.39	557017.81	47.06
32.126	23°21'29.8724"	87°33'28.8807"	2583294.26	557035.56	47.24
32.145	23°21'30.1756"	87°33'29.4906"	2583303.65	557052.84	47.16
32.165	23°21'30.4869"	87°33'30.1086"	2583313.29	557070.35	47.26
32.185	23°21'30.7978"	87°33'30.7266"	2583322.92	557087.86	47.18
32.205	23°21'31.1087"	87°33'31.3450"	2583332.55	557105.38	47.28
32.225	23°21'31.4197"	87°33'31.9630"	2583342.18	557122.89	47.15
32.245	23°21'31.7310"	87°33'32.5810"	2583351.82	557140.40	47.26
32.266	23°21'32.0497"	87°33'33.2079"	2583361.69	557158.16	46.84
32.286	23°21'32.3528"	87°33'33.8174"	2583371.08	557175.43	47.35

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
32.306	23°21'32.6755"	87°33'34.4285"	2583381.07	557192.74	47.06
32.326	23°21'33.0044"	87°33'35.0356"	2583391.25	557209.94	46.85
32.346	23°21'33.3335"	87°33'35.6425"	2583401.44	557227.13	47.06
32.366	23°21'33.6627"	87°33'36.2497"	2583411.63	557244.33	47.25
32.386	23°21'33.9997"	87°33'36.8653"	2583422.06	557261.77	47.24
32.406	23°21'34.3208"	87°33'37.4640"	2583432.00	557278.73	47.05
32.426	23°21'34.6577"	87°33'38.0797"	2583442.43	557296.17	46.84
32.446	23°21'34.9866"	87°33'38.6865"	2583452.61	557313.36	47.04
32.466	23°21'35.3080"	87°33'39.2852"	2583462.56	557330.32	47.23
32.488	23°21'35.6449"	87°33'39.9009"	2583472.99	557347.76	47.24
32.507	23°21'36.0114"	87°33'40.4646"	2583484.32	557363.72	47.05
32.527	23°21'36.4282"	87°33'41.0049"	2583497.20	557379.01	46.87
32.547	23°21'36.8532"	87°33'41.5533"	2583510.33	557394.53	47.14
32.567	23°21'37.2624"	87°33'42.0847"	2583522.97	557409.57	47.28
32.587	23°21'37.6792"	87°33'42.6247"	2583535.85	557424.85	47.17
32.607	23°21'38.0965"	87°33'43.1646"	2583548.74	557440.13	47.05
32.627	23°21'38.5211"	87°33'43.7134"	2583561.86	557455.66	47.34
32.647	23°21'38.9302"	87°33'44.2449"	2583574.50	557470.70	46.96

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
32.668	23°21'39.3475"	87°33'44.7848"	2583587.39	557485.98	46.87
32.688	23°21'39.7643"	87°33'45.3247"	2583600.27	557501.26	47.17
32.707	23°21'40.2420"	87°33'45.7832"	2583615.01	557514.22	47.39
32.728	23°21'40.7482"	87°33'46.2623"	2583630.63	557527.76	47.24
32.747	23°21'41.2233"	87°33'46.7066"	2583645.29	557540.32	47.29
32.768	23°21'41.7295"	87°33'47.1857"	2583660.91	557553.86	46.94
32.787	23°21'42.2046"	87°33'47.6301"	2583675.57	557566.42	46.99
32.808	23°21'42.7031"	87°33'48.1006"	2583690.95	557579.72	47.03
32.828	23°21'43.1937"	87°33'48.5623"	2583706.09	557592.77	47.08
32.848	23°21'43.6844"	87°33'49.0241"	2583721.23	557605.82	47.13
32.867	23°21'44.1747"	87°33'49.4858"	2583736.36	557618.87	47.18
32.887	23°21'44.6654"	87°33'49.9475"	2583751.50	557631.92	46.83
32.907	23°21'45.1397"	87°33'50.4289"	2583766.14	557645.53	47.25
32.927	23°21'45.6069"	87°33'50.9183"	2583780.56	557659.37	47.28
32.944	23°21'45.8971"	87°33'51.4165"	2583789.54	557673.48	0.28
32.947	23°21'46.0737"	87°33'51.4078"	2583794.97	557673.21	47.06
32.982	23°21'46.7954"	87°33'52.3548"	2583817.27	557700.01	0.39
33.002	23°21'47.2638"	87°33'52.8484"	2583831.73	557713.97	0.34

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
33.035	23°21'48.0349"	87°33'53.6520"	2583855.53	557736.69	0.33
33.055	23°21'48.4958"	87°33'54.1537"	2583869.76	557750.88	0.53
33.075	23°21'48.9756"	87°33'54.6348"	2583884.57	557764.48	0.59
33.095	23°21'49.4486"	87°33'55.1239"	2583899.17	557778.31	0.64
33.116	23°21'49.9183"	87°33'55.6229"	2583913.67	557792.42	0.71
33.140	23°21'50.4663"	87°33'56.2444"	2583930.59	557810.00	0.76
33.182	23°21'51.4335"	87°33'57.2967"	2583960.45	557839.76	0.79
33.222	23°21'52.3491"	87°33'58.2946"	2583988.72	557867.98	0.79
33.244	23°21'52.8488"	87°33'58.8585"	2584004.15	557883.93	0.78
33.266	23°21'53.3564"	87°33'59.4143"	2584019.82	557899.65	0.77
33.289	23°21'53.8646"	87°33'59.9691"	2584035.51	557915.34	0.76
33.311	23°21'54.3734"	87°34'0.5236"	2584051.22	557931.02	0.73
33.333	23°21'54.8836"	87°34'1.0766"	2584066.97	557946.66	0.72
33.355	23°21'55.3386"	87°34'1.6834"	2584081.03	557963.83	0.71
33.377	23°21'55.8004"	87°34'2.2837"	2584095.30	557980.82	0.71
33.402	23°21'56.3040"	87°34'2.9484"	2584110.86	557999.63	0.74
33.424	23°21'56.7600"	87°34'3.5544"	2584124.95	558016.78	0.77
33.448	23°21'57.2681"	87°34'4.2153"	2584140.65	558035.48	0.81

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
33.480	23°21'57.9072"	87°34'5.0630"	2584160.40	558059.47	0.85
33.504	23°21'58.4134"	87°34'5.7266"	2584176.04	558078.25	0.89
33.537	23°21'59.1057"	87°34'6.6278"	2584197.43	558103.75	0.91
33.559	23°21'59.5503"	87°34'7.2429"	2584211.17	558121.16	0.90
33.582	23°21'59.9410"	87°34'7.9004"	2584223.26	558139.78	0.94
33.624	23°22'0.6638"	87°34'9.1624"	2584245.63	558175.52	0.96
33.648	23°22'1.0930"	87°34'9.8848"	2584258.91	558195.98	0.94
33.670	23°22'1.4783"	87°34'10.5441"	2584270.83	558214.65	0.92
33.701	23°22'2.0134"	87°34'11.4735"	2584287.39	558240.97	0.89
33.730	23°22'2.5205"	87°34'12.3291"	2584303.08	558265.20	0.87
33.752	23°22'2.9050"	87°34'12.9905"	2584314.98	558283.93	0.84
33.779	23°22'3.3580"	87°34'13.7888"	2584329.00	558306.54	0.84
33.801	23°22'3.6611"	87°34'14.4984"	2584338.40	558326.65	0.80
33.835	23°22'4.1144"	87°34'15.5627"	2584352.46	558356.81	0.79
33.857	23°22'4.4198"	87°34'16.2713"	2584361.93	558376.89	0.72
33.892	23°22'4.9089"	87°34'17.4044"	2584377.10	558409.00	0.65
33.919	23°22'5.2719"	87°34'18.2563"	2584388.36	558433.14	0.64
33.946	23°22'5.6405"	87°34'19.1046"	2584399.79	558457.18	0.61

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
33.977	23°22'6.0580"	87°34'20.1015"	2584412.74	558485.43	0.67
34.005	23°22'6.4663"	87°34'21.0158"	2584425.40	558511.34	0.66
34.034	23°22'6.7173"	87°34'21.9951"	2584433.23	558539.11	0.71
34.061	23°22'6.9527"	87°34'22.8978"	2584440.57	558564.71	0.68
34.088	23°22'7.1790"	87°34'23.8037"	2584447.63	558590.40	0.70
34.114	23°22'7.4117"	87°34'24.7064"	2584454.89	558616.00	0.69
34.136	23°22'7.6002"	87°34'25.4613"	2584460.77	558637.41	0.69
34.159	23°22'7.7951"	87°34'26.2142"	2584466.85	558658.76	0.59
34.183	23°22'8.0008"	87°34'27.0446"	2584473.27	558682.31	0.68
34.205	23°22'8.1958"	87°34'27.7971"	2584479.35	558703.65	0.65
34.243	23°22'8.5189"	87°34'29.0792"	2584489.43	558740.01	0.65
34.265	23°22'8.7167"	87°34'29.8310"	2584495.60	558761.33	0.59
34.303	23°22'9.0502"	87°34'31.1097"	2584506.00	558797.59	0.67
34.325	23°22'9.2513"	87°34'31.8608"	2584512.27	558818.89	0.62
34.363	23°22'9.5904"	87°34'33.1377"	2584522.84	558855.10	0.63
34.403	23°22'9.9473"	87°34'34.4908"	2584533.97	558893.47	0.60
34.423	23°22'10.1337"	87°34'35.1848"	2584539.78	558913.15	0.60
34.447	23°22'10.3486"	87°34'35.9927"	2584546.48	558936.06	0.60

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
34.469	23°22'10.5455"	87°34'36.7449"	2584552.62	558957.39	0.68
34.498	23°22'10.8170"	87°34'37.7161"	2584561.08	558984.93	0.62
34.531	23°22'11.0192"	87°34'38.8681"	2584567.43	559017.61	0.62
34.560	23°22'11.2058"	87°34'39.8538"	2584573.28	559045.57	0.71
34.581	23°22'11.3446"	87°34'40.5736"	2584577.63	559065.99	0.69
34.604	23°22'11.4867"	87°34'41.3682"	2584582.09	559088.53	0.70
34.627	23°22'11.6392"	87°34'42.1607"	2584586.87	559111.01	0.72
34.648	23°22'11.7777"	87°34'42.8806"	2584591.21	559131.43	0.67
34.669	23°22'11.9044"	87°34'43.6039"	2584595.19	559151.95	0.55
34.696	23°22'12.0837"	87°34'44.5402"	2584600.81	559178.51	0.60
34.731	23°22'12.3058"	87°34'45.7680"	2584607.78	559213.34	0.62
34.752	23°22'12.4442"	87°34'46.4879"	2584612.12	559233.76	0.55
34.775	23°22'12.5967"	87°34'47.2804"	2584616.90	559256.24	0.60
34.813	23°22'12.8329"	87°34'48.5794"	2584624.31	559293.09	0.62
34.836	23°22'12.9912"	87°34'49.3705"	2584629.27	559315.53	0.69
34.857	23°22'13.1414"	87°34'50.0880"	2584633.97	559335.88	0.69
34.890	23°22'13.3664"	87°34'51.2397"	2584641.02	559368.55	0.71
34.911	23°22'13.5162"	87°34'51.9576"	2584645.71	559388.91	0.66

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
34.951	23°22'13.7876"	87°34'53.3244"	2584654.21	559427.68	0.71
34.971	23°22'13.9341"	87°34'54.0425"	2584658.80	559448.05	0.62
34.992	23°22'14.0840"	87°34'54.7603"	2584663.49	559468.41	0.68
35.030	23°22'14.3432"	87°34'56.0545"	2584671.61	559505.12	0.64
35.057	23°22'14.5287"	87°34'56.9898"	2584677.42	559531.65	0.70
35.078	23°22'14.6785"	87°34'57.7073"	2584682.11	559552.00	0.67
35.103	23°22'14.8496"	87°34'58.5703"	2584687.47	559576.48	0.68
35.124	23°22'15.0137"	87°34'59.2843"	2584692.60	559596.73	0.67
35.153	23°22'15.2598"	87°35'0.2738"	2584700.28	559624.79	0.70
35.174	23°22'15.4421"	87°35'0.9882"	2584705.97	559645.05	0.70
35.195	23°22'15.6151"	87°35'1.6998"	2584711.37	559665.23	0.69
35.226	23°22'15.8843"	87°35'2.7633"	2584719.77	559695.39	0.69
35.251	23°22'16.0928"	87°35'3.6174"	2584726.28	559719.61	0.66
35.283	23°22'16.3626"	87°35'4.6816"	2584734.70	559749.79	0.74
35.304	23°22'16.5362"	87°35'5.3932"	2584740.12	559769.97	0.61
35.325	23°22'16.7039"	87°35'6.1111"	2584745.36	559790.33	0.71
35.347	23°22'16.9055"	87°35'6.8852"	2584751.65	559812.28	0.65
35.368	23°22'17.0833"	87°35'7.5954"	2584757.20	559832.42	0.76

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
35.389	23°22'17.2374"	87°35'8.3118"	2584762.02	559852.74	0.78
35.409	23°22'17.3834"	87°35'9.0042"	2584766.59	559872.38	0.74
35.430	23°22'17.5271"	87°35'9.7157"	2584771.09	559892.56	0.65
35.452	23°22'17.6781"	87°35'10.4554"	2584775.82	559913.54	0.75
35.472	23°22'17.8228"	87°35'11.1548"	2584780.35	559933.38	0.70
35.511	23°22'18.1039"	87°35'12.4985"	2584789.15	559971.49	0.73
35.541	23°22'18.3114"	87°35'13.5346"	2584795.65	560000.88	0.79
35.562	23°22'18.4615"	87°35'14.2524"	2584800.35	560021.24	0.79
35.584	23°22'18.6219"	87°35'15.0182"	2584805.37	560042.96	0.77
35.609	23°22'18.7901"	87°35'15.8562"	2584810.64	560066.73	0.68
35.631	23°22'18.9479"	87°35'16.6097"	2584815.58	560088.10	0.60
35.651	23°22'19.0757"	87°35'17.3137"	2584819.59	560108.07	0.82
35.688	23°22'19.2903"	87°35'18.5989"	2584826.34	560144.53	0.82
35.710	23°22'19.4153"	87°35'19.3596"	2584830.27	560166.11	0.86
35.741	23°22'19.5982"	87°35'20.4263"	2584836.02	560196.37	0.90
35.761	23°22'19.7159"	87°35'21.1327"	2584839.72	560216.41	0.89
35.800	23°22'19.9407"	87°35'22.4719"	2584846.79	560254.40	0.85
35.832	23°22'20.1258"	87°35'23.5812"	2584852.61	560285.87	0.60

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
35.852	23°22'20.2477"	87°35'24.2764"	2584856.44	560305.59	0.59
35.872	23°22'20.3598"	87°35'24.9845"	2584859.97	560325.68	0.59
35.893	23°22'20.4856"	87°35'25.7075"	2584863.92	560346.19	0.66
35.931	23°22'20.7284"	87°35'27.0041"	2584871.54	560382.97	0.77
35.952	23°22'20.8860"	87°35'27.7199"	2584876.47	560403.27	0.76
35.972	23°22'21.0482"	87°35'28.4346"	2584881.54	560423.54	0.73
35.993	23°22'21.2019"	87°35'29.1514"	2584886.35	560443.87	0.71
36.014	23°22'21.3654"	87°35'29.8654"	2584891.46	560464.12	0.68
36.035	23°22'21.5188"	87°35'30.5819"	2584896.26	560484.44	0.67
36.056	23°22'21.6829"	87°35'31.2959"	2584901.39	560504.69	0.70
36.083	23°22'21.8809"	87°35'32.2285"	2584907.59	560531.14	0.65
36.104	23°22'22.0428"	87°35'32.9428"	2584912.65	560551.40	0.55
36.127	23°22'22.2144"	87°35'33.7302"	2584918.02	560573.73	0.58
36.163	23°22'22.4901"	87°35'34.9445"	2584926.64	560608.17	0.58
36.200	23°22'22.7447"	87°35'36.2391"	2584934.62	560644.89	0.60
36.221	23°22'22.8486"	87°35'36.9666"	2584937.90	560665.53	0.57
36.246	23°22'22.9809"	87°35'37.8376"	2584942.07	560690.24	0.56
36.273	23°22'23.1214"	87°35'38.7822"	2584946.50	560717.04	0.62

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
36.294	23°22'23.2295"	87°35'39.5087"	2584949.91	560737.65	0.58
36.317	23°22'23.3520"	87°35'40.3067"	2584953.77	560760.29	0.55
36.342	23°22'23.4797"	87°35'41.1791"	2584957.80	560785.04	0.61
36.369	23°22'23.6176"	87°35'42.1234"	2584962.15	560811.83	0.63
36.392	23°22'23.7407"	87°35'42.9214"	2584966.03	560834.47	0.78
36.417	23°22'23.8717"	87°35'43.7927"	2584970.16	560859.19	0.79
36.438	23°22'23.9811"	87°35'44.5185"	2584973.61	560879.78	0.78
36.459	23°22'24.0892"	87°35'45.2453"	2584977.02	560900.40	0.77
36.480	23°22'24.1983"	87°35'45.9714"	2584980.46	560921.00	0.76
36.513	23°22'24.3568"	87°35'47.1335"	2584985.47	560953.97	0.75
36.534	23°22'24.4142"	87°35'47.8664"	2584987.32	560974.77	0.72
36.555	23°22'24.4588"	87°35'48.6003"	2584988.78	560995.60	0.82
36.576	23°22'24.5126"	87°35'49.3343"	2584990.52	561016.43	0.93
36.597	23°22'24.5570"	87°35'50.0682"	2584991.97	561037.26	1.01
36.637	23°22'24.6524"	87°35'51.4625"	2584995.07	561076.83	1.06
36.670	23°22'24.7354"	87°35'52.6362"	2584997.76	561110.14	1.07
36.691	23°22'24.7843"	87°35'53.3698"	2584999.35	561130.96	1.05
36.712	23°22'24.8375"	87°35'54.1034"	2585001.07	561151.78	0.98

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White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
36.733	23°22'24.8919"	87°35'54.8367"	2585002.83	561172.59	0.81
36.754	23°22'24.9349"	87°35'55.5713"	2585004.24	561193.44	0.70
36.774	23°22'24.9874"	87°35'56.3046"	2585005.94	561214.25	0.76
36.795	23°22'25.0412"	87°35'57.0382"	2585007.68	561235.07	0.74
36.816	23°22'25.0754"	87°35'57.7721"	2585008.82	561255.90	0.66
36.837	23°22'25.0316"	87°35'58.5053"	2585007.56	561276.72	0.63
36.858	23°22'24.9927"	87°35'59.2409"	2585006.45	561297.61	0.61
36.879	23°22'24.9506"	87°35'59.9752"	2585005.24	561318.46	0.61
36.900	23°22'24.9045"	87°36'0.7090"	2585003.91	561339.30	0.65
36.921	23°22'24.8614"	87°36'1.4436"	2585002.67	561360.16	0.62
36.942	23°22'24.8205"	87°36'2.1779"	2585001.50	561381.01	0.61
36.962	23°22'24.7764"	87°36'2.9114"	2585000.23	561401.84	0.65
36.983	23°22'24.7352"	87°36'3.6460"	2584999.05	561422.70	0.71
37.015	23°22'24.6718"	87°36'4.7476"	2584997.23	561453.98	0.75
37.036	23°22'24.6303"	87°36'5.4822"	2584996.04	561474.84	0.81
37.056	23°22'24.5848"	87°36'6.2160"	2584994.73	561495.68	0.89
37.096	23°22'24.5138"	87°36'7.6113"	2584992.71	561535.30	0.86
37.117	23°22'24.4521"	87°36'8.3441"	2584990.90	561556.11	0.69

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
37.138	23°22'24.3898"	87°36'9.0772"	2584989.07	561576.93	0.59
37.159	23°22'24.3281"	87°36'9.8099"	2584987.26	561597.74	0.55
37.180	23°22'24.2710"	87°36'10.5430"	2584985.59	561618.56	0.53
37.201	23°22'24.2093"	87°36'11.2758"	2584983.78	561639.37	0.48
37.230	23°22'24.1221"	87°36'12.3018"	2584981.22	561668.51	0.47
37.257	23°22'24.0430"	87°36'13.2539"	2584978.90	561695.55	0.49
37.278	23°22'23.9868"	87°36'13.9870"	2584977.26	561716.37	0.58
37.299	23°22'23.9248"	87°36'14.7198"	2584975.44	561737.18	0.84
37.322	23°22'23.8589"	87°36'15.5261"	2584973.51	561760.08	0.94
37.343	23°22'23.7953"	87°36'16.2582"	2584971.64	561780.87	1.01
37.380	23°22'23.6933"	87°36'17.5779"	2584968.66	561818.35	1.01
37.405	23°22'23.5677"	87°36'18.4428"	2584964.90	561842.92	1.03
37.436	23°22'23.2638"	87°36'19.4960"	2584955.68	561872.86	1.01
37.457	23°22'23.0582"	87°36'20.1975"	2584949.44	561892.80	1.07
37.487	23°22'22.7757"	87°36'21.1811"	2584940.87	561920.76	1.07
37.507	23°22'22.5746"	87°36'21.8840"	2584934.77	561940.74	1.06
37.528	23°22'22.3699"	87°36'22.5854"	2584928.56	561960.68	1.05
37.560	23°22'22.0677"	87°36'23.6390"	2584919.39	561990.63	1.07

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
37.581	23°22'21.8637"	87°36'24.3408"	2584913.20	562010.58	1.05
37.601	23°22'21.6554"	87°36'25.0412"	2584906.88	562030.49	0.98
37.622	23°22'21.4508"	87°36'25.7430"	2584900.67	562050.44	0.86
37.647	23°22'21.2059"	87°36'26.5851"	2584893.24	562074.38	0.88
37.668	23°22'21.0038"	87°36'27.2876"	2584887.11	562094.35	0.82
37.689	23°22'20.8021"	87°36'27.9901"	2584880.99	562114.32	1.03
37.729	23°22'20.4430"	87°36'29.3524"	2584870.11	562153.04	1.02
37.750	23°22'20.2829"	87°36'30.0544"	2584865.27	562172.99	0.68
37.770	23°22'20.1208"	87°36'30.7557"	2584860.37	562192.92	0.34
37.792	23°22'19.9482"	87°36'31.4918"	2584855.15	562213.84	0.37
37.824	23°22'19.6939"	87°36'32.5931"	2584847.46	562245.14	0.41
37.848	23°22'19.5090"	87°36'33.3897"	2584841.87	562267.78	1.06
37.868	23°22'19.3525"	87°36'34.0829"	2584837.14	562287.48	1.09
37.889	23°22'19.1852"	87°36'34.7972"	2584832.08	562307.78	1.04
37.919	23°22'18.9431"	87°36'35.8469"	2584824.76	562337.61	1.09
37.950	23°22'18.6983"	87°36'36.8968"	2584817.36	562367.45	1.10
37.971	23°22'18.5382"	87°36'37.6115"	2584812.52	562387.76	1.10
37.992	23°22'18.3689"	87°36'38.3258"	2584807.40	562408.06	1.10

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
38.013	23°22'18.2094"	87°36'39.0401"	2584802.58	562428.36	1.10
38.034	23°22'18.0407"	87°36'39.7530"	2584797.48	562448.62	1.09
38.055	23°22'17.8806"	87°36'40.4676"	2584792.64	562468.93	1.07
38.076	23°22'17.7139"	87°36'41.1809"	2584787.60	562489.20	1.06
38.096	23°22'17.5485"	87°36'41.8944"	2584782.60	562509.48	1.06
38.124	23°22'17.3329"	87°36'42.8209"	2584776.08	562535.81	1.06
38.155	23°22'17.0916"	87°36'43.8931"	2584768.79	562566.28	1.07
38.178	23°22'16.9081"	87°36'44.6777"	2584763.24	562588.58	1.10
38.199	23°22'16.7404"	87°36'45.3906"	2584758.17	562608.84	1.10
38.220	23°22'16.5802"	87°36'46.1060"	2584753.33	562629.17	1.09
38.243	23°22'16.3902"	87°36'46.8881"	2584747.58	562651.40	1.10
38.268	23°22'16.1969"	87°36'47.7460"	2584741.74	562675.78	1.10
38.289	23°22'16.0303"	87°36'48.4596"	2584736.70	562696.06	1.10
38.309	23°22'15.8730"	87°36'49.1749"	2584731.95	562716.39	1.10
38.330	23°22'15.7086"	87°36'49.8889"	2584726.98	562736.68	1.10
38.351	23°22'15.5416"	87°36'50.6021"	2584721.93	562756.95	1.10
38.372	23°22'15.3814"	87°36'51.3167"	2584717.09	562777.26	1.09
38.393	23°22'15.2140"	87°36'52.0303"	2584712.03	562797.54	1.07

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
38.414	23°22'15.0473"	87°36'52.7435"	2584706.99	562817.81	1.07
38.449	23°22'14.7691"	87°36'53.9575"	2584698.58	562852.31	1.08
38.470	23°22'14.6014"	87°36'54.6700"	2584693.51	562872.56	1.08
38.491	23°22'14.4347"	87°36'55.3836"	2584688.47	562892.84	1.06
38.512	23°22'14.2674"	87°36'56.0964"	2584683.41	562913.10	1.06
38.537	23°22'14.0670"	87°36'56.9525"	2584677.35	562937.43	1.08
38.558	23°22'13.9012"	87°36'57.6661"	2584672.34	562957.71	1.09
38.579	23°22'13.7310"	87°36'58.3782"	2584667.19	562977.95	1.09
38.600	23°22'13.5493"	87°36'59.0864"	2584661.69	562998.08	1.09
38.621	23°22'13.3339"	87°36'59.7839"	2584655.15	563017.91	1.09
38.658	23°22'12.9433"	87°37'1.0392"	2584643.29	563053.60	1.08
38.679	23°22'12.7250"	87°37'1.7360"	2584636.66	563073.41	1.06
38.700	23°22'12.5122"	87°37'2.4342"	2584630.20	563093.26	1.04
38.721	23°22'12.2971"	87°37'3.1327"	2584623.67	563113.12	1.06
38.742	23°22'12.0787"	87°37'3.8281"	2584617.04	563132.89	1.05
38.763	23°22'11.8646"	87°37'4.5277"	2584610.54	563152.78	1.05
38.784	23°22'11.6505"	87°37'5.2256"	2584604.04	563172.62	1.05
38.805	23°22'11.4351"	87°37'5.9234"	2584597.50	563192.46	1.05

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
38.825	23°22'11.2041"	87°37'6.6152"	2584590.48	563212.13	1.06
38.865	23°22'10.7667"	87°37'7.9298"	2584577.19	563249.51	1.09
38.886	23°22'10.5477"	87°37'8.6266"	2584570.54	563269.32	1.07
38.907	23°22'10.3183"	87°37'9.3187"	2584563.57	563289.00	1.05
38.928	23°22'10.0938"	87°37'10.0130"	2584556.75	563308.74	1.05
38.949	23°22'9.8615"	87°37'10.7040"	2584549.69	563328.39	1.04
38.969	23°22'9.6376"	87°37'11.3983"	2584542.89	563348.13	1.05
38.990	23°22'9.4066"	87°37'12.0901"	2584535.87	563367.80	1.04
39.011	23°22'9.1876"	87°37'12.7868"	2584529.22	563387.61	1.04
39.036	23°22'8.8459"	87°37'13.5880"	2584518.81	563410.40	1.05
39.057	23°22'8.5584"	87°37'14.2545"	2584510.05	563429.36	1.05
39.078	23°22'8.2722"	87°37'14.9217"	2584501.33	563448.34	1.03
39.099	23°22'7.9867"	87°37'15.5896"	2584492.63	563467.34	1.06
39.120	23°22'7.6988"	87°37'16.2561"	2584483.86	563486.30	1.04
39.141	23°22'7.4097"	87°37'16.9215"	2584475.05	563505.23	1.04
39.162	23°22'7.1323"	87°37'17.5923"	2584466.60	563524.31	1.06
39.183	23°22'6.8435"	87°37'18.2584"	2584457.80	563543.26	1.05
39.214	23°22'6.4122"	87°37'19.2578"	2584444.66	563571.69	1.09

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
39.235	23°22'6.0799"	87°37'19.8980"	2584434.52	563589.91	1.09
39.256	23°22'5.7146"	87°37'20.5183"	2584423.36	563607.57	1.09
39.276	23°22'5.3492"	87°37'21.1380"	2584412.20	563625.21	1.07
39.297	23°22'4.9855"	87°37'21.7597"	2584401.09	563642.91	1.06
39.322	23°22'4.5455"	87°37'22.5023"	2584387.65	563664.05	1.08
39.362	23°22'3.8537"	87°37'23.6825"	2584366.52	563697.65	1.09
39.383	23°22'3.4909"	87°37'24.3043"	2584355.44	563715.35	1.07
39.404	23°22'3.1256"	87°37'24.9236"	2584344.28	563732.98	1.06
39.435	23°22'2.6171"	87°37'25.8796"	2584328.76	563760.19	1.08
39.456	23°22'2.2780"	87°37'26.5173"	2584318.41	563778.34	1.07
39.477	23°22'1.9392"	87°37'27.1554"	2584308.07	563796.50	1.06
39.498	23°22'1.6020"	87°37'27.7938"	2584297.78	563814.67	1.06
39.525	23°22'1.1591"	87°37'28.6212"	2584284.26	563838.22	1.06
39.546	23°22'0.8194"	87°37'29.2582"	2584273.89	563856.35	1.06
39.567	23°22'0.4196"	87°37'29.8460"	2584261.67	563873.09	1.06
39.588	23°21'59.9635"	87°37'30.3901"	2584247.71	563888.60	1.06
39.621	23°21'59.2206"	87°37'31.2493"	2584224.97	563913.09	1.09
39.642	23°21'58.7736"	87°37'31.7988"	2584211.29	563928.75	1.08

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
39.663	23°21'58.3940"	87°37'32.4084"	2584199.69	563946.11	1.07
39.684	23°21'58.0140"	87°37'33.0188"	2584188.08	563963.49	1.05
39.705	23°21'57.6331"	87°37'33.6278"	2584176.44	563980.83	1.04
39.725	23°21'57.2550"	87°37'34.2389"	2584164.89	563998.23	1.06
39.746	23°21'56.8770"	87°37'34.8503"	2584153.34	564015.64	1.05
39.767	23°21'56.4951"	87°37'35.4589"	2584141.67	564032.97	1.04
39.788	23°21'56.1171"	87°37'36.0697"	2584130.12	564050.36	1.04
39.809	23°21'55.7348"	87°37'36.6783"	2584118.44	564067.69	1.04
39.830	23°21'55.3526"	87°37'37.2866"	2584106.76	564085.01	1.04
39.855	23°21'54.8973"	87°37'38.0184"	2584092.85	564105.85	1.05
39.876	23°21'54.5151"	87°37'38.6267"	2584081.17	564123.17	1.04
39.897	23°21'54.1334"	87°37'39.2469"	2584069.51	564140.83	1.04
39.919	23°21'53.7267"	87°37'39.8815"	2584057.08	564158.90	1.04
39.941	23°21'53.3491"	87°37'40.5369"	2584045.55	564177.56	1.04
39.962	23°21'52.9824"	87°37'41.1668"	2584034.35	564195.49	1.04
39.996	23°21'52.3966"	87°37'42.1717"	2584016.46	564224.10	1.04
40.020	23°21'51.9841"	87°37'42.8809"	2584003.86	564244.29	1.06
40.041	23°21'51.6052"	87°37'43.5314"	2583992.29	564262.81	1.06

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
40.065	23°21'51.1920"	87°37'44.2406"	2583979.67	564283.00	1.07
40.087	23°21'50.8158"	87°37'44.8911"	2583968.18	564301.52	1.06
40.108	23°21'50.4569"	87°37'45.5076"	2583957.22	564319.07	1.05
40.128	23°21'50.0987"	87°37'46.1237"	2583946.28	564336.61	1.04
40.153	23°21'49.6662"	87°37'46.8455"	2583933.07	564357.16	1.08
40.175	23°21'49.2552"	87°37'47.5036"	2583920.51	564375.90	1.09
40.196	23°21'48.8801"	87°37'48.1080"	2583909.05	564393.11	1.09
40.216	23°21'48.5158"	87°37'48.6931"	2583897.92	564409.77	1.05
40.237	23°21'48.1276"	87°37'49.3154"	2583886.06	564427.49	1.01
40.278	23°21'47.3866"	87°37'50.5087"	2583863.42	564461.47	1.07
40.299	23°21'47.0089"	87°37'51.1155"	2583851.88	564478.75	1.07
40.325	23°21'46.5327"	87°37'51.8832"	2583837.33	564500.61	1.04
40.346	23°21'46.1599"	87°37'52.4760"	2583825.94	564517.49	1.04
40.400	23°21'45.1223"	87°37'54.0113"	2583794.22	564561.22	1.03
40.435	23°21'44.3972"	87°37'54.9719"	2583772.04	564588.59	0.81
40.455	23°21'43.9861"	87°37'55.5342"	2583759.47	564604.61	1.09
40.476	23°21'43.5638"	87°37'56.0866"	2583746.55	564620.35	1.05
40.507	23°21'42.9308"	87°37'56.9465"	2583727.19	564644.85	1.05

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
40.541	23°21'42.2347"	87°37'57.8741"	2583705.90	564671.28	1.00
40.561	23°21'41.8231"	87°37'58.4364"	2583693.31	564687.30	0.63
40.582	23°21'41.4043"	87°37'58.9920"	2583680.50	564703.13	0.55
40.602	23°21'40.9855"	87°37'59.5475"	2583667.69	564718.96	0.88
40.627	23°21'40.4663"	87°38'0.2358"	2583651.81	564738.57	1.02
40.651	23°21'39.9762"	87°38'0.8850"	2583636.82	564757.07	1.04
40.671	23°21'39.5633"	87°38'1.4322"	2583624.19	564772.66	1.03
40.691	23°21'39.1511"	87°38'1.9790"	2583611.58	564788.24	1.02
40.711	23°21'38.7385"	87°38'2.5261"	2583598.96	564803.83	1.00
40.731	23°21'38.3249"	87°38'3.0722"	2583586.31	564819.39	0.95
40.751	23°21'37.9126"	87°38'3.6193"	2583573.70	564834.98	0.94
40.771	23°21'37.5072"	87°38'4.1725"	2583561.30	564850.74	0.90
40.791	23°21'37.0884"	87°38'4.7139"	2583548.49	564866.17	0.55
40.818	23°21'36.4933"	87°38'5.3799"	2583530.27	564885.16	0.61
40.854	23°21'35.6785"	87°38'6.3073"	2583505.33	564911.60	0.61
40.874	23°21'35.2245"	87°38'6.8134"	2583491.43	564926.03	0.56
40.899	23°21'34.6616"	87°38'7.4517"	2583474.20	564944.23	0.59
40.919	23°21'34.2134"	87°38'7.9642"	2583460.48	564958.84	0.56

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
40.952	23°21'33.4764"	87°38'8.7890"	2583437.92	564982.36	0.56
40.972	23°21'33.0289"	87°38'9.3025"	2583424.22	564997.00	0.54
40.992	23°21'32.5706"	87°38'9.8037"	2583410.19	565011.29	0.54
41.012	23°21'32.1259"	87°38'10.3203"	2583396.58	565026.02	0.57
41.032	23°21'31.6754"	87°38'10.8310"	2583382.79	565040.58	0.54
41.052	23°21'31.2259"	87°38'11.3427"	2583369.03	565055.17	0.45
41.072	23°21'30.7680"	87°38'11.8456"	2583355.01	565069.51	0.35
41.092	23°21'30.3181"	87°38'12.3566"	2583341.24	565084.08	0.54
41.128	23°21'29.4943"	87°38'13.2740"	2583316.02	565110.24	0.60
41.157	23°21'28.8404"	87°38'14.0014"	2583296.00	565130.98	0.59
41.185	23°21'28.2109"	87°38'14.6926"	2583276.73	565150.69	0.57
41.222	23°21'27.3600"	87°38'15.6433"	2583250.68	565177.80	0.37
41.242	23°21'26.9053"	87°38'16.1494"	2583236.76	565192.23	0.36
41.263	23°21'26.4499"	87°38'16.6558"	2583222.82	565206.67	0.36
41.283	23°21'25.9952"	87°38'17.1615"	2583208.90	565221.09	0.36
41.303	23°21'25.5398"	87°38'17.6672"	2583194.96	565235.51	0.33
41.334	23°21'24.8281"	87°38'18.4562"	2583173.17	565258.01	0.35
41.354	23°21'24.3727"	87°38'18.9623"	2583159.23	565272.44	0.34

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
41.384	23°21'23.6900"	87°38'19.7212"	2583138.33	565294.08	0.34
41.409	23°21'23.1245"	87°38'20.3563"	2583121.02	565312.19	0.38
41.429	23°21'22.6407"	87°38'20.8294"	2583106.20	565325.69	0.36
41.449	23°21'22.1523"	87°38'21.2973"	2583091.24	565339.04	0.35
41.471	23°21'21.6297"	87°38'21.7896"	2583075.23	565353.09	0.44
41.491	23°21'21.1400"	87°38'22.2561"	2583060.23	565366.40	0.55
41.527	23°21'20.2531"	87°38'23.1017"	2583033.06	565390.53	0.56
41.549	23°21'19.7150"	87°38'23.6411"	2583016.58	565405.92	0.56
41.571	23°21'19.1888"	87°38'24.1303"	2583000.46	565419.88	0.57
41.610	23°21'18.2486"	87°38'25.0432"	2582971.66	565445.93	0.68
41.632	23°21'17.6985"	87°38'25.5689"	2582954.81	565460.93	0.72
41.652	23°21'17.2117"	87°38'26.0392"	2582939.90	565474.35	0.72
41.672	23°21'16.7169"	87°38'26.4989"	2582924.74	565487.47	0.71
41.702	23°21'15.9799"	87°38'27.1613"	2582902.16	565506.38	0.74
41.722	23°21'15.4623"	87°38'27.6266"	2582886.30	565519.66	0.70
41.743	23°21'14.9437"	87°38'28.0907"	2582870.41	565532.91	0.66
41.764	23°21'14.4231"	87°38'28.5510"	2582854.46	565546.05	0.63
41.784	23°21'13.9058"	87°38'29.0166"	2582838.61	565559.34	0.59

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
41.812	23°21'13.2139"	87°38'29.6342"	2582817.41	565576.97	0.62
41.833	23°21'12.6937"	87°38'30.0955"	2582801.47	565590.14	0.62
41.866	23°21'11.8579"	87°38'30.8424"	2582775.86	565611.46	0.59
41.888	23°21'11.3083"	87°38'31.3289"	2582759.02	565625.35	0.70
41.913	23°21'10.6728"	87°38'31.8932"	2582739.55	565641.46	0.72
41.934	23°21'10.1559"	87°38'32.3585"	2582723.71	565654.74	0.70
41.954	23°21'9.6282"	87°38'32.8053"	2582707.54	565667.50	0.67
41.975	23°21'9.0785"	87°38'33.2373"	2582690.69	565679.84	0.62
41.998	23°21'8.4740"	87°38'33.7126"	2582672.16	565693.42	0.61
42.019	23°21'7.9230"	87°38'34.1421"	2582655.27	565705.69	0.76
42.056	23°21'6.9620"	87°38'34.9007"	2582625.81	565727.36	0.65
42.076	23°21'6.4195"	87°38'35.3203"	2582609.18	565739.35	0.58
42.084	23°21'06.7568"	87°38'36.3215"	2582619.68	565767.73	40.74
42.102	23°21'06.2913"	87°38'36.6710"	2582605.41	565777.72	40.43
42.119	23°21'05.8336"	87°38'37.0291"	2582591.38	565787.95	40.27
42.137	23°21'05.3840"	87°38'37.3957"	2582577.60	565798.42	40.44
42.154	23°21'04.9186"	87°38'37.7453"	2582563.33	565808.41	40.73
42.171	23°21'04.4612"	87°38'38.1034"	2582549.31	565818.64	40.36

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
42.189	23°21'04.0035"	87°38'38.4614"	2582535.28	565828.87	40.57
42.206	23°21'03.5497"	87°38'38.8220"	2582521.37	565839.17	40.24
42.223	23°21'03.0749"	87°38'39.1564"	2582506.81	565848.73	40.45
42.240	23°21'02.6078"	87°38'39.4996"	2582492.49	565858.54	40.66
42.257	23°21'02.1404"	87°38'39.8429"	2582478.16	565868.35	40.67
42.275	23°21'01.6734"	87°38'40.1861"	2582463.84	565878.16	40.48
42.292	23°21'01.2063"	87°38'40.5293"	2582449.52	565887.97	40.27
42.309	23°21'00.7470"	87°38'40.8811"	2582435.44	565898.02	40.44
42.327	23°21'00.2718"	87°38'41.2158"	2582420.87	565907.59	40.65
42.344	23°20'59.8048"	87°38'41.5590"	2582406.55	565917.40	40.66
42.361	23°20'59.3377"	87°38'41.9023"	2582392.23	565927.21	40.53
42.379	23°20'58.8784"	87°38'42.2540"	2582378.15	565937.26	40.34
42.396	23°20'58.4032"	87°38'42.5887"	2582363.58	565946.83	40.55
42.413	23°20'57.9362"	87°38'42.9320"	2582349.26	565956.64	40.35
42.431	23°20'57.4756"	87°38'43.2812"	2582335.14	565966.62	40.64
42.448	23°20'56.9949"	87°38'43.6071"	2582320.40	565975.94	40.26
42.465	23°20'56.5224"	87°38'43.9415"	2582305.91	565985.50	40.76
42.482	23°20'56.0498"	87°38'44.2759"	2582291.42	565995.06	40.37

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
42.500	23°20'55.5773"	87°38'44.6103"	2582276.93	566004.62	40.33
42.517	23°20'55.1047"	87°38'44.9447"	2582262.44	566014.18	40.47
42.535	23°20'54.6322"	87°38'45.2791"	2582247.95	566023.74	40.45
42.552	23°20'54.1596"	87°38'45.6135"	2582233.46	566033.30	40.55
42.569	23°20'53.6870"	87°38'45.9479"	2582218.97	566042.86	40.57
42.587	23°20'53.2222"	87°38'46.2908"	2582204.72	566052.66	40.74
42.604	23°20'52.7445"	87°38'46.6209"	2582190.07	566062.10	40.36
42.623	23°20'52.2881"	87°38'46.9804"	2582176.08	566072.37	40.68
42.640	23°20'51.8314"	87°38'47.3399"	2582162.08	566082.64	40.35
42.657	23°20'51.3746"	87°38'47.6990"	2582148.08	566092.90	40.56
42.675	23°20'50.9179"	87°38'48.0585"	2582134.08	566103.17	40.47
42.692	23°20'50.4612"	87°38'48.4179"	2582120.08	566113.44	40.75
42.710	23°20'50.0048"	87°38'48.7774"	2582106.09	566123.71	40.36
42.727	23°20'49.5480"	87°38'49.1365"	2582092.09	566133.97	40.27
42.744	23°20'49.0913"	87°38'49.4960"	2582078.09	566144.24	40.56
42.766	23°20'48.6915"	87°38'49.9269"	2582065.85	566156.53	40.54
42.783	23°20'48.2882"	87°38'50.3546"	2582053.50	566168.73	40.74
42.801	23°20'47.8770"	87°38'50.7738"	2582040.91	566180.69	40.35

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
42.818	23°20'47.4737"	87°38'51.2015"	2582028.56	566192.89	40.55
42.835	23°20'47.0703"	87°38'51.6292"	2582016.21	566205.09	40.35
42.853	23°20'46.6669"	87°38'52.0569"	2582003.86	566217.29	40.55
42.870	23°20'46.2639"	87°38'52.4846"	2581991.52	566229.49	40.75
42.887	23°20'45.8605"	87°38'52.9126"	2581979.17	566241.70	40.35
42.905	23°20'45.4572"	87°38'53.3403"	2581966.82	566253.90	40.55
42.924	23°20'45.0849"	87°38'53.8009"	2581955.43	566267.03	40.44
42.941	23°20'44.7068"	87°38'54.2548"	2581943.86	566279.97	40.44
42.959	23°20'44.3206"	87°38'54.6998"	2581932.04	566292.66	40.38
42.976	23°20'43.9425"	87°38'55.1537"	2581920.47	566305.60	40.66
42.993	23°20'43.5644"	87°38'55.6075"	2581908.90	566318.54	40.66
43.011	23°20'43.1940"	87°38'56.0699"	2581897.57	566331.72	40.74
43.028	23°20'42.8156"	87°38'56.5238"	2581885.99	566344.66	40.74
43.046	23°20'42.4297"	87°38'56.9691"	2581874.18	566357.36	40.68
43.063	23°20'42.0506"	87°38'57.4223"	2581862.58	566370.28	40.57
43.080	23°20'41.6767"	87°38'57.8811"	2581851.14	566383.36	40.44
43.097	23°20'41.2870"	87°38'58.3226"	2581839.21	566395.95	40.27
43.115	23°20'40.9053"	87°38'58.7729"	2581827.53	566408.79	40.45

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
43.132	23°20'40.5233"	87°38'59.2232"	2581815.84	566421.63	40.35
43.149	23°20'40.1416"	87°38'59.6736"	2581804.16	566434.47	40.77
43.167	23°20'39.7596"	87°39'00.1239"	2581792.47	566447.31	40.56
43.184	23°20'39.3780"	87°39'00.5742"	2581780.79	566460.15	40.46
43.201	23°20'38.2761"	87°39'0.3068"	2581746.87	566452.71	0.43
43.228	23°20'37.7065"	87°39'0.9859"	2581729.44	566472.07	0.44
43.254	23°20'37.1562"	87°39'1.7086"	2581712.61	566492.67	0.45
43.275	23°20'36.7949"	87°39'2.3313"	2581701.58	566510.40	0.43
43.299	23°20'36.3895"	87°39'3.0343"	2581689.20	566530.42	0.47
43.319	23°20'36.0514"	87°39'3.6384"	2581678.88	566547.62	0.45
43.340	23°20'35.6939"	87°39'4.2751"	2581667.97	566565.75	0.43
43.366	23°20'35.2432"	87°39'5.0635"	2581654.21	566588.20	0.44
43.398	23°20'34.6955"	87°39'6.0283"	2581637.49	566615.67	0.44
43.435	23°20'34.0744"	87°39'7.1257"	2581618.53	566646.92	0.45
43.455	23°20'33.7204"	87°39'7.7357"	2581607.72	566664.29	0.43
43.482	23°20'33.2722"	87°39'8.5255"	2581594.04	566686.78	0.44
43.502	23°20'32.9347"	87°39'9.1462"	2581583.74	566704.45	0.43
43.523	23°20'32.6475"	87°39'9.7966"	2581574.99	566722.96	0.42

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
43.549	23°20'32.2688"	87°39'10.6276"	2581563.45	566746.61	0.44
43.572	23°20'31.9346"	87°39'11.3676"	2581553.27	566767.67	0.44
43.593	23°20'31.6435"	87°39'12.0159"	2581544.40	566786.12	0.43
43.629	23°20'31.1281"	87°39'13.1759"	2581528.70	566819.13	0.45
43.650	23°20'30.8373"	87°39'13.8246"	2581519.84	566837.59	0.42
43.670	23°20'30.5491"	87°39'14.4743"	2581511.06	566856.08	0.41
43.697	23°20'30.1759"	87°39'15.3081"	2581499.69	566879.81	0.43
43.736	23°20'29.6133"	87°39'16.5580"	2581482.55	566915.38	0.43
43.762	23°20'29.3846"	87°39'17.4465"	2581475.63	566940.64	0.44
43.797	23°20'29.1451"	87°39'18.6542"	2581468.42	566974.97	0.45
43.818	23°20'29.0033"	87°39'19.3586"	2581464.15	566994.99	0.42
43.840	23°20'28.8528"	87°39'20.1136"	2581459.62	567016.45	0.44
43.862	23°20'28.7069"	87°39'20.8693"	2581455.23	567037.93	0.45
43.884	23°20'28.5545"	87°39'21.6243"	2581450.64	567059.39	0.45
43.904	23°20'28.3909"	87°39'22.3221"	2581445.70	567079.23	0.44
43.925	23°20'28.2719"	87°39'23.0312"	2581442.13	567099.38	0.43
43.945	23°20'28.1298"	87°39'23.7351"	2581437.85	567119.39	0.43
43.966	23°20'27.9841"	87°39'24.4384"	2581433.46	567139.38	0.47

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
43.986	23°20'27.8793"	87°39'25.1499"	2581430.33	567159.60	0.46
44.024	23°20'27.7521"	87°39'26.4812"	2581426.59	567197.42	0.45
44.045	23°20'27.6681"	87°39'27.1963"	2581424.10	567217.74	0.45
44.065	23°20'27.6056"	87°39'27.9141"	2581422.27	567238.13	0.44
44.087	23°20'27.5302"	87°39'28.6821"	2581420.05	567259.95	0.45
44.107	23°20'27.4576"	87°39'29.3984"	2581417.91	567280.30	0.45
44.128	23°20'27.3850"	87°39'30.1154"	2581415.77	567300.67	0.43
44.148	23°20'27.3124"	87°39'30.8317"	2581413.63	567321.02	0.42
44.173	23°20'27.2242"	87°39'31.7018"	2581411.03	567345.74	0.45
44.194	23°20'27.1516"	87°39'32.4180"	2581408.89	567366.09	0.43
44.214	23°20'27.0335"	87°39'33.1281"	2581405.35	567386.27	0.44
44.235	23°20'26.9147"	87°39'33.8371"	2581401.79	567406.42	0.44
44.255	23°20'26.7979"	87°39'34.5465"	2581398.29	567426.58	0.44
44.276	23°20'26.6678"	87°39'35.2537"	2581394.38	567446.68	0.43
44.314	23°20'26.4610"	87°39'36.5725"	2581388.19	567484.16	0.44
44.334	23°20'26.3201"	87°39'37.2769"	2581383.95	567504.18	0.46
44.365	23°20'26.1404"	87°39'38.3402"	2581378.56	567534.40	0.46
44.385	23°20'26.0141"	87°39'39.0481"	2581374.77	567554.52	0.45

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
44.406	23°20'25.8512"	87°39'39.7470"	2581369.85	567574.39	0.44
44.426	23°20'25.6879"	87°39'40.4456"	2581364.92	567594.25	0.42
44.449	23°20'25.5034"	87°39'41.2441"	2581359.35	567616.95	0.44
44.474	23°20'25.3165"	87°39'42.0957"	2581353.71	567641.16	0.44
44.506	23°20'25.0484"	87°39'43.1900"	2581345.61	567672.27	0.44
44.527	23°20'24.8943"	87°39'43.8914"	2581340.96	567692.21	0.43
44.553	23°20'24.6830"	87°39'44.7897"	2581334.58	567717.75	0.44
44.575	23°20'24.5078"	87°39'45.5386"	2581329.29	567739.04	0.44
44.596	23°20'24.3433"	87°39'46.2368"	2581324.32	567758.89	0.43
44.629	23°20'24.0110"	87°39'47.3649"	2581314.25	567790.97	0.46
44.650	23°20'23.8133"	87°39'48.0531"	2581308.26	567810.54	0.45
44.686	23°20'23.4488"	87°39'49.2782"	2581297.21	567845.38	0.46
44.707	23°20'23.2492"	87°39'49.9653"	2581291.16	567864.92	0.45
44.739	23°20'22.8062"	87°39'50.9903"	2581277.67	567894.09	0.45
44.759	23°20'22.5004"	87°39'51.6308"	2581268.35	567912.32	0.45
44.780	23°20'22.1985"	87°39'52.2730"	2581259.15	567930.60	0.45
44.814	23°20'21.7166"	87°39'53.3355"	2581244.47	567960.84	0.44
44.843	23°20'21.2812"	87°39'54.2514"	2581231.20	567986.91	0.44

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
44.882	23°20'20.6553"	87°39'55.4650"	2581212.11	568021.46	0.46
44.903	23°20'20.3314"	87°39'56.0951"	2581202.23	568039.40	0.45
44.923	23°20'20.0162"	87°39'56.7299"	2581192.62	568057.47	0.44
44.944	23°20'19.6851"	87°39'57.3547"	2581182.52	568075.26	0.44
44.977	23°20'19.1572"	87°39'58.3906"	2581166.42	568104.75	0.44
45.002	23°20'18.7368"	87°39'59.1368"	2581153.59	568126.00	0.45
45.023	23°20'18.3619"	87°39'59.7325"	2581142.14	568142.97	0.44
45.043	23°20'17.9851"	87°40'0.3265"	2581130.63	568159.89	0.44
45.080	23°20'17.3221"	87°40'1.3941"	2581110.38	568190.30	0.46
45.100	23°20'16.9673"	87°40'2.0036"	2581099.55	568207.66	0.44
45.120	23°20'16.5798"	87°40'2.5891"	2581087.71	568224.34	0.44
45.141	23°20'16.2144"	87°40'3.1922"	2581076.55	568241.52	0.46
45.161	23°20'15.8496"	87°40'3.7947"	2581065.41	568258.68	0.44
45.194	23°20'15.2560"	87°40'4.7263"	2581047.28	568285.22	0.46
45.214	23°20'14.8919"	87°40'5.3295"	2581036.16	568302.40	0.46
45.234	23°20'14.5170"	87°40'5.9252"	2581024.71	568319.37	0.45
45.255	23°20'14.1434"	87°40'6.5231"	2581013.30	568336.40	0.45
45.275	23°20'13.7789"	87°40'7.1255"	2581002.17	568353.56	0.44

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
45.299	23°20'13.3520"	87°40'7.8073"	2580989.13	568372.98	0.46
45.319	23°20'12.9882"	87°40'8.4108"	2580978.02	568390.17	0.45
45.340	23°20'12.6204"	87°40'9.0107"	2580966.79	568407.26	0.45
45.362	23°20'12.2310"	87°40'9.6567"	2580954.90	568425.66	0.47
45.397	23°20'11.4666"	87°40'10.5688"	2580931.51	568451.67	0.46
45.427	23°20'10.7696"	87°40'11.3429"	2580910.18	568473.75	0.46
45.448	23°20'10.3054"	87°40'11.8596"	2580895.97	568488.49	0.44
45.468	23°20'9.8404"	87°40'12.3753"	2580881.74	568503.20	0.44
45.490	23°20'9.3431"	87°40'12.9281"	2580866.52	568518.97	0.46
45.511	23°20'8.8779"	87°40'13.4448"	2580852.28	568533.71	0.46
45.531	23°20'8.4143"	87°40'13.9602"	2580838.09	568548.41	0.45
45.552	23°20'7.9487"	87°40'14.4772"	2580823.84	568563.16	0.44
45.590	23°20'7.0926"	87°40'15.4413"	2580797.64	568590.66	0.45
45.616	23°20'6.4303"	87°40'16.0278"	2580777.35	568607.41	0.45
45.636	23°20'5.9184"	87°40'16.4887"	2580761.67	568620.57	0.44
45.657	23°20'5.4066"	87°40'16.9495"	2580745.99	568633.73	0.44
45.689	23°20'4.6016"	87°40'17.6727"	2580721.33	568654.38	0.45
45.717	23°20'3.8989"	87°40'18.2878"	2580699.80	568671.95	0.46

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
45.737	23°20'3.3935"	87°40'18.7561"	2580684.32	568685.32	0.45
45.758	23°20'2.8862"	87°40'19.2230"	2580668.78	568698.65	0.43
45.778	23°20'2.3626"	87°40'19.6777"	2580652.74	568711.64	0.43
45.800	23°20'1.8058"	87°40'20.1620"	2580635.68	568725.47	0.46
45.821	23°20'1.3493"	87°40'20.6777"	2580621.71	568740.18	0.43
45.848	23°20'0.7493"	87°40'21.3743"	2580603.35	568760.05	0.45
45.870	23°20'0.2582"	87°40'21.9388"	2580588.32	568776.15	0.47
45.890	23°19'59.8111"	87°40'22.4563"	2580574.64	568790.91	0.44
45.911	23°19'59.3349"	87°40'23.0152"	2580560.07	568806.85	0.46
45.932	23°19'58.8832"	87°40'23.5450"	2580546.25	568821.96	0.46
45.952	23°19'58.4290"	87°40'24.0720"	2580532.35	568836.99	0.43
45.973	23°19'57.9789"	87°40'24.6021"	2580518.58	568852.11	0.43
46.012	23°19'57.2106"	87°40'25.7163"	2580495.10	568883.86	0.44
46.045	23°19'56.5674"	87°40'26.6363"	2580475.44	568910.08	0.44
46.065	23°19'56.1727"	87°40'27.2122"	2580463.38	568926.49	0.43
46.086	23°19'55.7778"	87°40'27.7877"	2580451.31	568942.89	0.42
46.117	23°19'55.1659"	87°40'28.6649"	2580432.61	568967.89	0.46
46.138	23°19'54.7713"	87°40'29.2489"	2580420.55	568984.53	0.43

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
46.171	23°19'54.1655"	87°40'30.2082"	2580402.05	569011.86	0.43
46.191	23°19'53.7877"	87°40'30.8018"	2580390.51	569028.77	0.43
46.220	23°19'53.2495"	87°40'31.6501"	2580374.07	569052.94	0.43
46.241	23°19'52.8769"	87°40'32.2472"	2580362.69	569069.95	0.42
46.274	23°19'52.2458"	87°40'33.2145"	2580343.41	569097.51	0.43
46.309	23°19'51.6001"	87°40'34.2331"	2580323.69	569126.53	0.43
46.343	23°19'50.9833"	87°40'35.2110"	2580304.85	569154.39	0.44
46.369	23°19'50.5062"	87°40'35.9784"	2580290.28	569176.25	0.44
46.390	23°19'50.1725"	87°40'36.6024"	2580280.10	569194.02	0.43
46.410	23°19'49.8420"	87°40'37.2275"	2580270.02	569211.82	0.43
46.437	23°19'49.4200"	87°40'38.0346"	2580257.15	569234.80	0.42
46.457	23°19'49.0889"	87°40'38.6594"	2580247.05	569252.59	0.45
46.478	23°19'48.7581"	87°40'39.2848"	2580236.96	569270.40	0.42
46.514	23°19'48.1702"	87°40'40.4041"	2580219.03	569302.27	0.46
46.535	23°19'47.8407"	87°40'41.0299"	2580208.98	569320.09	0.42
46.570	23°19'47.3072"	87°40'42.1223"	2580192.72	569351.19	0.43
46.593	23°19'46.9538"	87°40'42.8512"	2580181.95	569371.94	0.45
46.614	23°19'46.6473"	87°40'43.4915"	2580172.61	569390.17	0.44

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
46.647	23°19'46.1449"	87°40'44.5432"	2580157.30	569420.11	0.42
46.682	23°19'45.6176"	87°40'45.6389"	2580141.23	569451.30	0.45
46.716	23°19'45.0812"	87°40'46.6710"	2580124.87	569480.69	0.40
46.736	23°19'44.7555"	87°40'47.2997"	2580114.94	569498.59	0.40
46.761	23°19'44.3559"	87°40'48.0607"	2580102.75	569520.26	0.42
46.795	23°19'43.8213"	87°40'49.0932"	2580086.45	569549.66	0.44
46.815	23°19'43.4944"	87°40'49.7215"	2580076.48	569567.55	0.43
46.836	23°19'43.1685"	87°40'50.3501"	2580066.54	569585.45	0.42
46.875	23°19'42.5398"	87°40'51.5618"	2580047.37	569619.95	0.43
46.896	23°19'42.2103"	87°40'52.1879"	2580037.32	569637.78	0.42
46.916	23°19'41.8344"	87°40'52.7829"	2580025.84	569654.73	0.40
46.943	23°19'41.3443"	87°40'53.5423"	2580010.87	569676.37	0.44
46.969	23°19'40.8497"	87°40'54.2990"	2579995.76	569697.93	0.45
46.989	23°19'40.4848"	87°40'54.9014"	2579984.62	569715.09	0.44
47.010	23°19'40.0979"	87°40'55.4882"	2579972.80	569731.81	0.42
47.030	23°19'39.7207"	87°40'56.0817"	2579961.28	569748.72	0.41
47.051	23°19'39.3231"	87°40'56.6582"	2579949.13	569765.15	0.41
47.073	23°19'38.8724"	87°40'57.2569"	2579935.35	569782.22	0.44

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
47.093	23°19'38.4560"	87°40'57.8193"	2579922.62	569798.25	0.43
47.114	23°19'38.0348"	87°40'58.3780"	2579909.74	569814.18	0.45
47.134	23°19'37.6190"	87°40'58.9407"	2579897.03	569830.22	0.43
47.155	23°19'37.1971"	87°40'59.4981"	2579884.13	569846.11	0.42
47.175	23°19'36.7791"	87°41'0.0586"	2579871.35	569862.09	0.41
47.203	23°19'36.2181"	87°41'0.8251"	2579854.20	569883.94	0.44
47.223	23°19'35.7700"	87°41'1.3584"	2579840.49	569899.15	0.42
47.247	23°19'35.2487"	87°41'1.9575"	2579824.54	569916.24	0.42
47.273	23°19'34.6653"	87°41'2.6355"	2579806.69	569935.58	0.47
47.293	23°19'34.2100"	87°41'3.1617"	2579792.76	569950.59	0.42
47.317	23°19'33.6881"	87°41'3.7608"	2579776.79	569967.68	0.42
47.352	23°19'32.9093"	87°41'4.6642"	2579752.96	569993.45	0.42
47.381	23°19'32.2595"	87°41'5.4172"	2579733.08	570014.93	0.44
47.406	23°19'31.7354"	87°41'6.0832"	2579717.05	570033.92	0.45
47.429	23°19'31.2471"	87°41'6.7145"	2579702.12	570051.92	0.44
47.450	23°19'30.8181"	87°41'7.2662"	2579689.00	570067.65	0.44
47.470	23°19'30.3884"	87°41'7.8154"	2579675.86	570083.31	0.44
47.491	23°19'29.9600"	87°41'8.3674"	2579662.76	570099.05	0.43

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
47.519	23°19'29.3779"	87°41'9.1148"	2579644.96	570120.36	0.43
47.541	23°19'28.9191"	87°41'9.7065"	2579630.93	570137.23	0.46
47.561	23°19'28.4978"	87°41'10.2631"	2579618.05	570153.10	0.44
47.600	23°19'27.7052"	87°41'11.3566"	2579593.82	570184.27	0.44
47.640	23°19'26.9193"	87°41'12.4557"	2579569.80	570215.60	0.45
47.660	23°19'26.5106"	87°41'13.0244"	2579557.31	570231.81	0.45
47.681	23°19'26.1026"	87°41'13.5945"	2579544.84	570248.06	0.43
47.704	23°19'25.6316"	87°41'14.2406"	2579530.44	570266.48	0.44
47.734	23°19'25.0459"	87°41'15.0524"	2579512.54	570289.62	0.45
47.767	23°19'24.3788"	87°41'15.9902"	2579492.15	570316.35	0.44
47.788	23°19'23.9727"	87°41'16.5609"	2579479.74	570332.62	0.46
47.808	23°19'23.5615"	87°41'17.1278"	2579467.17	570348.78	0.44
47.829	23°19'23.1584"	87°41'17.7015"	2579454.85	570365.13	0.42
47.852	23°19'22.6873"	87°41'18.3487"	2579440.45	570383.58	0.44
47.872	23°19'22.2725"	87°41'18.9110"	2579427.77	570399.61	0.44
47.905	23°19'21.8293"	87°41'19.9368"	2579414.28	570428.81	0.45
47.925	23°19'21.5523"	87°41'20.5917"	2579405.85	570447.45	0.43
47.945	23°19'21.2750"	87°41'21.2470"	2579397.41	570466.10	0.42

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
47.985	23°19'20.7459"	87°41'22.5136"	2579381.31	570502.15	0.44
48.007	23°19'20.4449"	87°41'23.2138"	2579372.15	570522.08	0.44
48.039	23°19'20.0037"	87°41'24.2404"	2579358.72	570551.30	0.43
48.076	23°19'19.5140"	87°41'25.4135"	2579343.82	570584.69	0.45
48.099	23°19'19.2086"	87°41'26.1676"	2579334.53	570606.15	0.44
48.125	23°19'18.8599"	87°41'27.0143"	2579323.92	570630.25	0.47
48.146	23°19'18.5907"	87°41'27.6732"	2579315.73	570649.00	0.45
48.166	23°19'18.3192"	87°41'28.3312"	2579307.47	570667.73	0.43
48.200	23°19'17.8796"	87°41'29.4152"	2579294.10	570698.58	0.46
48.220	23°19'17.6130"	87°41'30.0761"	2579285.99	570717.39	0.43
48.247	23°19'17.2675"	87°41'30.9236"	2579275.48	570741.51	0.46
48.267	23°19'16.9970"	87°41'31.5821"	2579267.25	570760.25	0.44
48.288	23°19'16.7232"	87°41'32.2391"	2579258.92	570778.95	0.42
48.310	23°19'16.4336"	87°41'32.9453"	2579250.11	570799.05	0.43
48.330	23°19'16.1718"	87°41'33.6077"	2579242.15	570817.90	0.42
48.350	23°19'15.9049"	87°41'34.2675"	2579234.03	570836.68	0.42
48.381	23°19'15.4892"	87°41'35.2499"	2579221.38	570864.64	0.44
48.402	23°19'15.2018"	87°41'35.9001"	2579212.63	570883.15	0.44

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
48.422	23°19'14.9114"	87°41'36.5490"	2579203.79	570901.62	0.44
48.443	23°19'14.6192"	87°41'37.1964"	2579194.89	570920.05	0.40
48.463	23°19'14.3301"	87°41'37.8455"	2579186.09	570938.53	0.38
48.503	23°19'13.7751"	87°41'39.0990"	2579169.19	570974.21	0.42
48.524	23°19'13.4598"	87°41'39.7920"	2579159.59	570993.94	0.44
48.545	23°19'13.1721"	87°41'40.4412"	2579150.83	571012.42	0.41
48.565	23°19'12.8805"	87°41'41.0897"	2579141.95	571030.88	0.40
48.593	23°19'12.4896"	87°41'41.9711"	2579130.05	571055.97	0.43
48.614	23°19'12.1989"	87°41'42.6195"	2579121.20	571074.43	0.42
48.634	23°19'11.9080"	87°41'43.2676"	2579112.34	571092.88	0.41
48.655	23°19'11.6222"	87°41'43.9186"	2579103.64	571111.41	0.45
48.691	23°19'11.1045"	87°41'45.0771"	2579087.88	571144.39	0.44
48.717	23°19'10.7227"	87°41'45.9064"	2579076.25	571168.00	0.43
48.750	23°19'10.2733"	87°41'46.9294"	2579062.57	571197.12	0.44
48.774	23°19'9.9228"	87°41'47.7177"	2579051.90	571219.56	0.47
48.805	23°19'9.4886"	87°41'48.6918"	2579038.68	571247.29	0.45
48.826	23°19'9.1993"	87°41'49.3403"	2579029.87	571265.75	0.44
48.859	23°19'8.7282"	87°41'50.4089"	2579015.53	571296.17	0.44

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
48.880	23°19'8.4690"	87°41'51.0723"	2579007.65	571315.05	0.42
48.905	23°19'8.1666"	87°41'51.8841"	2578998.46	571338.15	0.43
48.943	23°19'7.6961"	87°41'53.1221"	2578984.16	571373.38	0.45
48.963	23°19'7.4447"	87°41'53.7894"	2578976.52	571392.37	0.44
48.989	23°19'7.1261"	87°41'54.6496"	2578966.84	571416.85	0.44
49.010	23°19'6.8821"	87°41'55.3198"	2578959.43	571435.92	0.43
49.030	23°19'6.6372"	87°41'55.9900"	2578951.99	571454.99	0.42
49.067	23°19'6.1939"	87°41'57.1841"	2578938.52	571488.97	0.46
49.095	23°19'5.8565"	87°41'58.0918"	2578928.27	571514.80	0.45
49.115	23°19'5.6048"	87°41'58.7584"	2578920.62	571533.77	0.42
49.136	23°19'5.3478"	87°41'59.4239"	2578912.81	571552.71	0.41
49.163	23°19'5.0124"	87°42'0.3316"	2578902.62	571578.54	0.42
49.191	23°19'4.6835"	87°42'1.2429"	2578892.63	571604.47	0.45
49.212	23°19'4.4353"	87°42'1.9113"	2578885.09	571623.49	0.45
49.232	23°19'4.1826"	87°42'2.5779"	2578877.41	571642.46	0.44
49.263	23°19'3.8100"	87°42'3.5811"	2578866.09	571671.01	0.46
49.283	23°19'3.5580"	87°42'4.2484"	2578858.43	571690.00	0.45
49.304	23°19'3.3043"	87°42'4.9143"	2578850.72	571708.95	0.43

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
49.324	23°19'3.0564"	87°42'5.5834"	2578843.19	571727.99	0.43
49.345	23°19'2.7979"	87°42'6.2472"	2578835.33	571746.88	0.45
49.365	23°19'2.5559"	87°42'6.9191"	2578827.98	571766.00	0.43
49.386	23°19'2.3158"	87°42'7.5896"	2578820.69	571785.08	0.41
49.406	23°19'2.0696"	87°42'8.2594"	2578813.21	571804.14	0.40
49.427	23°19'1.8253"	87°42'8.9296"	2578805.79	571823.21	0.43
49.447	23°19'1.5619"	87°42'9.5915"	2578797.78	571842.05	0.43
49.478	23°19'1.3339"	87°42'10.6174"	2578790.91	571871.22	0.46
49.513	23°19'0.9011"	87°42'11.7605"	2578777.76	571903.75	0.46
49.533	23°19'0.6487"	87°42'12.4274"	2578770.09	571922.73	0.45
49.554	23°19'0.3993"	87°42'13.0954"	2578762.51	571941.74	0.43
49.574	23°19'0.1361"	87°42'13.7574"	2578754.51	571960.58	0.42
49.606	23°18'59.7331"	87°42'14.8024"	2578742.26	571990.32	0.43
49.646	23°18'59.2409"	87°42'16.0863"	2578727.30	572026.86	0.44
49.666	23°18'58.9872"	87°42'16.7529"	2578719.59	572045.83	0.42
49.687	23°18'58.7305"	87°42'17.4177"	2578711.79	572064.75	0.41
49.714	23°18'58.3860"	87°42'18.3218"	2578701.32	572090.48	0.43
49.735	23°18'58.1346"	87°42'18.9881"	2578693.68	572109.44	0.42

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
49.761	23°18'57.8052"	87°42'19.8444"	2578683.67	572133.81	0.43
49.782	23°18'57.5525"	87°42'20.5113"	2578675.99	572152.79	0.42
49.805	23°18'57.2639"	87°42'21.2734"	2578667.22	572174.48	0.44
49.831	23°18'56.9381"	87°42'22.1301"	2578657.32	572198.86	0.44
49.852	23°18'56.6838"	87°42'22.7963"	2578649.59	572217.82	0.43
49.874	23°18'56.4113"	87°42'23.5096"	2578641.31	572238.12	0.44
49.913	23°18'55.9181"	87°42'24.7929"	2578626.32	572274.64	0.45
49.934	23°18'55.6663"	87°42'25.4601"	2578618.67	572293.63	0.45
49.956	23°18'55.3951"	87°42'26.1741"	2578610.43	572313.95	0.45
49.988	23°18'54.9872"	87°42'27.2170"	2578598.03	572343.63	0.47
50.008	23°18'54.7238"	87°42'27.8793"	2578590.02	572362.48	0.48
50.029	23°18'54.4561"	87°42'28.5387"	2578581.88	572381.25	0.46
50.049	23°18'54.2017"	87°42'29.2049"	2578574.15	572400.21	0.45
50.070	23°18'53.9305"	87°42'29.8630"	2578565.90	572418.94	0.45
50.092	23°18'53.6551"	87°42'30.5759"	2578557.53	572439.23	0.45
50.112	23°18'53.3923"	87°42'31.2375"	2578549.54	572458.06	0.44
50.147	23°18'52.9410"	87°42'32.3727"	2578535.82	572490.37	0.45
50.172	23°18'52.6220"	87°42'33.1758"	2578526.12	572513.23	0.43

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
50.200	23°18'52.2648"	87°42'34.0749"	2578515.26	572538.82	0.46
50.220	23°18'52.0055"	87°42'34.7386"	2578507.38	572557.71	0.46
50.241	23°18'51.7424"	87°42'35.4009"	2578499.38	572576.56	0.43
50.264	23°18'51.4434"	87°42'36.1588"	2578490.29	572598.13	0.45
50.288	23°18'51.1430"	87°42'36.9159"	2578481.16	572619.68	0.46
50.308	23°18'50.8728"	87°42'37.5747"	2578472.94	572638.43	0.43
50.345	23°18'50.4521"	87°42'38.7776"	2578460.17	572672.66	0.44
50.365	23°18'50.2318"	87°42'39.4581"	2578453.49	572692.02	0.44
50.396	23°18'49.9023"	87°42'40.4777"	2578443.50	572721.03	0.43
50.435	23°18'49.4788"	87°42'41.7898"	2578430.66	572758.36	0.45
50.473	23°18'49.0702"	87°42'43.0533"	2578418.27	572794.31	0.43
50.505	23°18'48.7265"	87°42'44.1225"	2578407.85	572824.73	0.44
50.526	23°18'48.5062"	87°42'44.8023"	2578401.17	572844.07	0.42
50.546	23°18'48.2891"	87°42'45.4831"	2578394.59	572863.44	0.41
50.570	23°18'48.0388"	87°42'46.2620"	2578387.00	572885.60	0.45
50.593	23°18'47.7875"	87°42'47.0391"	2578379.38	572907.71	0.47
50.614	23°18'47.5678"	87°42'47.7196"	2578372.72	572927.07	0.46
50.634	23°18'47.3494"	87°42'48.4004"	2578366.10	572946.44	0.41

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
50.659	23°18'47.0868"	87°42'49.2278"	2578358.14	572969.98	0.41
50.681	23°18'46.8510"	87°42'49.9567"	2578350.99	572990.72	0.43
50.706	23°18'46.5852"	87°42'50.7831"	2578342.93	573014.23	0.46
50.726	23°18'46.3405"	87°42'51.4528"	2578335.50	573033.29	0.44
50.747	23°18'46.0777"	87°42'52.1147"	2578327.51	573052.13	0.43
50.769	23°18'45.7958"	87°42'52.8244"	2578318.94	573072.33	0.45
50.789	23°18'45.5323"	87°42'53.4863"	2578310.93	573091.17	0.46
50.809	23°18'45.2695"	87°42'54.1479"	2578302.94	573110.00	0.44
50.830	23°18'45.0060"	87°42'54.8105"	2578294.93	573128.86	0.39
50.850	23°18'44.7431"	87°42'55.4721"	2578286.94	573147.69	0.41
50.872	23°18'44.4703"	87°42'56.1857"	2578278.65	573168.00	0.44
50.899	23°18'44.1325"	87°42'57.0363"	2578268.38	573192.21	0.44
50.921	23°18'43.8505"	87°42'57.7463"	2578259.81	573212.42	0.45
50.941	23°18'43.5871"	87°42'58.4086"	2578251.80	573231.27	0.39
50.965	23°18'43.2864"	87°42'59.1653"	2578242.66	573252.81	0.45
50.986	23°18'43.0045"	87°42'59.8743"	2578234.09	573272.99	0.46
51.007	23°18'42.7416"	87°43'0.5362"	2578226.10	573291.83	0.44
51.027	23°18'42.4801"	87°43'1.1992"	2578218.15	573310.70	0.44

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
51.049	23°18'42.1998"	87°43'1.9096"	2578209.63	573330.92	0.46
51.070	23°18'41.9370"	87°43'2.5715"	2578201.64	573349.76	0.44
51.109	23°18'41.4427"	87°43'3.8543"	2578186.62	573386.27	0.43
51.139	23°18'41.0860"	87°43'4.8445"	2578175.79	573414.45	0.42
51.173	23°18'40.6869"	87°43'5.9342"	2578163.67	573445.46	0.45
51.195	23°18'40.4211"	87°43'6.6739"	2578155.60	573466.51	0.47
51.235	23°18'39.9481"	87°43'7.9870"	2578141.24	573503.88	0.37
51.266	23°18'39.5815"	87°43'9.0068"	2578130.11	573532.90	0.38
51.289	23°18'39.3065"	87°43'9.7623"	2578121.76	573554.40	0.38
51.327	23°18'38.8561"	87°43'10.9829"	2578108.08	573589.14	0.43
51.347	23°18'38.6212"	87°43'11.6436"	2578100.95	573607.94	0.42
51.367	23°18'38.3772"	87°43'12.2999"	2578093.54	573626.62	0.40
51.396	23°18'38.0383"	87°43'13.2424"	2578083.25	573653.44	0.44
51.416	23°18'37.8011"	87°43'13.9019"	2578076.05	573672.21	0.39
51.449	23°18'37.4128"	87°43'14.9860"	2578064.26	573703.06	0.37
51.485	23°18'36.9876"	87°43'16.1628"	2578051.35	573736.55	0.40
51.505	23°18'36.7689"	87°43'16.8299"	2578044.72	573755.53	0.40
51.539	23°18'36.4024"	87°43'17.9763"	2578033.61	573788.15	0.39

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
51.561	23°18'36.1714"	87°43'18.6923"	2578026.61	573808.52	0.39
51.585	23°18'35.9050"	87°43'19.5024"	2578018.53	573831.57	0.42
51.623	23°18'35.5061"	87°43'20.7430"	2578006.44	573866.87	0.41
51.644	23°18'35.2804"	87°43'21.4607"	2577999.60	573887.29	0.44
51.677	23°18'34.9300"	87°43'22.5598"	2577988.98	573918.56	0.46
51.697	23°18'34.7146"	87°43'23.2282"	2577982.45	573937.58	0.43
51.727	23°18'34.3929"	87°43'24.2313"	2577972.70	573966.12	0.39
51.756	23°18'34.0848"	87°43'25.1859"	2577963.36	573993.28	0.43
51.789	23°18'33.7301"	87°43'26.2835"	2577952.61	574024.51	0.46
51.809	23°18'33.5141"	87°43'26.9512"	2577946.06	574043.51	0.42
51.829	23°18'33.2957"	87°43'27.6183"	2577939.44	574062.49	0.39
51.851	23°18'33.0401"	87°43'28.3246"	2577931.68	574082.59	0.40
51.877	23°18'32.7293"	87°43'29.1699"	2577922.24	574106.65	0.40
51.910	23°18'32.3344"	87°43'30.2511"	2577910.25	574137.42	0.41
51.940	23°18'31.9786"	87°43'31.2406"	2577899.45	574165.58	0.45
51.960	23°18'31.7333"	87°43'31.8963"	2577892.00	574184.24	0.45
51.980	23°18'31.4945"	87°43'32.5554"	2577884.75	574203.00	0.42
52.019	23°18'31.0289"	87°43'33.8242"	2577870.61	574239.11	0.40

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
52.039	23°18'30.7913"	87°43'34.4838"	2577863.40	574257.88	0.37
52.066	23°18'30.4620"	87°43'35.3759"	2577853.40	574283.27	0.39
52.105	23°18'30.0035"	87°43'36.6472"	2577839.48	574319.45	0.38
52.142	23°18'29.5660"	87°43'37.8732"	2577826.20	574354.34	0.38
52.163	23°18'29.3382"	87°43'38.5366"	2577819.29	574373.22	0.37
52.184	23°18'29.0839"	87°43'39.2429"	2577811.57	574393.32	0.38
52.210	23°18'28.7789"	87°43'40.0911"	2577802.31	574417.46	0.38
52.234	23°18'28.4909"	87°43'40.8923"	2577793.57	574440.26	0.46
52.254	23°18'28.2599"	87°43'41.5540"	2577786.56	574459.09	0.45
52.279	23°18'27.9720"	87°43'42.3551"	2577777.82	574481.89	0.44
52.299	23°18'27.7374"	87°43'43.0157"	2577770.70	574500.69	0.42
52.325	23°18'27.4356"	87°43'43.8654"	2577761.54	574524.87	0.44
52.361	23°18'27.0155"	87°43'45.0443"	2577748.79	574558.42	0.44
52.382	23°18'26.7628"	87°43'45.7523"	2577741.12	574578.57	0.42
52.407	23°18'26.4940"	87°43'46.5602"	2577732.97	574601.56	0.42
52.427	23°18'26.2779"	87°43'47.2283"	2577726.42	574620.57	0.41
52.447	23°18'26.0680"	87°43'47.8982"	2577720.06	574639.63	0.40
52.467	23°18'25.8519"	87°43'48.5667"	2577713.51	574658.65	0.36

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
52.499	23°18'25.5173"	87°43'49.6186"	2577703.37	574688.58	0.41
52.519	23°18'25.3012"	87°43'50.2863"	2577696.82	574707.58	0.41
52.539	23°18'25.0913"	87°43'50.9565"	2577690.46	574726.65	0.43
52.559	23°18'24.8751"	87°43'51.6250"	2577683.91	574745.67	0.41
52.598	23°18'24.4630"	87°43'52.9148"	2577671.42	574782.37	0.42
52.618	23°18'24.2469"	87°43'53.5829"	2577664.87	574801.38	0.42
52.638	23°18'24.0340"	87°43'54.2517"	2577658.42	574820.41	0.41
52.668	23°18'23.7136"	87°43'55.2555"	2577648.71	574848.97	0.38
52.688	23°18'23.4887"	87°43'55.9200"	2577641.89	574867.88	0.37
52.708	23°18'23.2518"	87°43'56.5791"	2577634.70	574886.64	0.36
52.728	23°18'23.0140"	87°43'57.2390"	2577627.48	574905.42	0.35
52.751	23°18'22.7532"	87°43'57.9970"	2577619.57	574926.99	0.38
52.790	23°18'22.3002"	87°43'59.2707"	2577605.82	574963.24	0.41
52.810	23°18'22.0678"	87°43'59.9327"	2577598.77	574982.08	0.41
52.840	23°18'21.7175"	87°44'0.9236"	2577588.14	575010.28	0.42
52.860	23°18'21.4806"	87°44'1.5839"	2577580.95	575029.07	0.41
52.885	23°18'21.1966"	87°44'2.3861"	2577572.33	575051.90	0.43
52.905	23°18'20.9639"	87°44'3.0477"	2577565.27	575070.73	0.41

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
52.941	23°18'20.5470"	87°44'4.2280"	2577552.62	575104.32	0.46
52.970	23°18'20.2097"	87°44'5.1711"	2577542.38	575131.16	0.47
52.990	23°18'19.9783"	87°44'5.8331"	2577535.36	575150.00	0.44
53.010	23°18'19.7404"	87°44'6.4926"	2577528.14	575168.77	0.43
53.033	23°18'19.4790"	87°44'7.2502"	2577520.21	575190.33	0.43
53.070	23°18'19.0576"	87°44'8.4833"	2577507.43	575225.42	0.41
53.100	23°18'18.7180"	87°44'9.4791"	2577497.13	575253.76	0.47
53.120	23°18'18.4905"	87°44'10.1433"	2577490.23	575272.66	0.46
53.140	23°18'18.2640"	87°44'10.8074"	2577483.36	575291.56	0.46
53.161	23°18'18.0372"	87°44'11.4712"	2577476.48	575310.45	0.44
53.186	23°18'17.7461"	87°44'12.3251"	2577467.65	575334.75	0.47
53.207	23°18'17.5192"	87°44'12.9882"	2577460.77	575353.62	0.43
53.228	23°18'17.2762"	87°44'13.6998"	2577453.40	575373.87	0.46
53.248	23°18'17.0494"	87°44'14.3632"	2577446.52	575392.75	0.44
53.278	23°18'16.7549"	87°44'15.3759"	2577437.61	575421.56	0.43
53.307	23°18'16.4775"	87°44'16.3414"	2577429.22	575449.03	0.43
53.337	23°18'16.1895"	87°44'17.3559"	2577420.51	575477.89	0.48
53.357	23°18'15.9952"	87°44'18.0311"	2577414.63	575497.10	0.45

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
53.377	23°18'15.8008"	87°44'18.7077"	2577408.75	575516.35	0.43
53.398	23°18'15.6064"	87°44'19.3833"	2577402.87	575535.57	0.39
53.423	23°18'15.3568"	87°44'20.2526"	2577395.32	575560.30	0.43
53.456	23°18'15.0374"	87°44'21.3626"	2577385.66	575591.88	0.46
53.492	23°18'14.6660"	87°44'22.5600"	2577374.41	575625.95	0.44
53.512	23°18'14.4018"	87°44'23.2074"	2577366.38	575644.38	0.40
53.533	23°18'14.1409"	87°44'23.8565"	2577358.45	575662.86	0.42
53.553	23°18'13.8725"	87°44'24.5014"	2577350.29	575681.22	0.44
53.574	23°18'13.5954"	87°44'25.1980"	2577341.87	575701.05	0.45
53.594	23°18'13.3367"	87°44'25.8486"	2577334.01	575719.57	0.43
53.620	23°18'12.9992"	87°44'26.6818"	2577323.75	575743.29	0.42
53.640	23°18'12.7830"	87°44'27.3470"	2577317.20	575762.22	0.37
53.660	23°18'12.6367"	87°44'28.0370"	2577312.80	575781.84	0.40
53.680	23°18'12.4884"	87°44'28.7255"	2577308.34	575801.42	0.38
53.703	23°18'12.3182"	87°44'29.5135"	2577303.22	575823.83	0.41
53.731	23°18'12.1141"	87°44'30.4485"	2577297.08	575850.42	0.43
53.751	23°18'11.9684"	87°44'31.1384"	2577292.70	575870.04	0.40
53.781	23°18'11.7457"	87°44'32.1722"	2577286.00	575899.44	0.41

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
53.814	23°18'11.5481"	87°44'33.3153"	2577280.09	575931.94	0.41
53.834	23°18'11.4450"	87°44'34.0135"	2577277.02	575951.79	0.40
53.854	23°18'11.3301"	87°44'34.7110"	2577273.59	575971.62	0.38
53.877	23°18'11.2093"	87°44'35.5088"	2577269.99	575994.30	0.42
53.914	23°18'11.0009"	87°44'36.8035"	2577263.77	576031.11	0.43
53.937	23°18'10.8863"	87°44'37.5757"	2577260.36	576053.06	0.43
53.958	23°18'10.8665"	87°44'38.3286"	2577259.86	576074.45	0.42
53.979	23°18'10.9163"	87°44'39.0643"	2577261.50	576095.34	0.41
53.999	23°18'10.9582"	87°44'39.7708"	2577262.89	576115.40	0.38
54.019	23°18'11.0056"	87°44'40.4762"	2577264.45	576135.43	0.38
54.041	23°18'11.0547"	87°44'41.2327"	2577266.07	576156.91	0.41
54.067	23°18'11.1131"	87°44'42.1406"	2577268.00	576182.69	0.43
54.087	23°18'11.1611"	87°44'42.8467"	2577269.58	576202.74	0.42
54.120	23°18'11.2249"	87°44'44.0060"	2577271.71	576235.66	0.43
54.140	23°18'11.2105"	87°44'44.7136"	2577271.37	576255.76	0.40
54.160	23°18'11.1954"	87°44'45.4215"	2577271.01	576275.87	0.39
54.186	23°18'11.1764"	87°44'46.3311"	2577270.56	576301.71	0.43
54.219	23°18'11.1497"	87°44'47.4938"	2577269.91	576334.74	0.45

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
54.246	23°18'11.1296"	87°44'48.4537"	2577269.43	576362.01	0.48
54.266	23°18'11.1116"	87°44'49.1612"	2577268.98	576382.11	0.46
54.287	23°18'11.0968"	87°44'49.8688"	2577268.63	576402.21	0.41
54.307	23°18'10.9232"	87°44'50.5504"	2577263.39	576421.60	0.41
54.338	23°18'10.6329"	87°44'51.6166"	2577254.62	576451.93	0.43
54.358	23°18'10.4411"	87°44'52.2929"	2577248.82	576471.17	0.39
54.378	23°18'10.2551"	87°44'52.9713"	2577243.20	576490.47	0.42
54.401	23°18'10.0436"	87°44'53.7471"	2577236.81	576512.54	0.45
54.437	23°18'9.7166"	87°44'54.9595"	2577226.93	576547.03	0.43
54.462	23°18'9.4500"	87°44'55.7670"	2577218.85	576570.01	0.46
54.482	23°18'9.1222"	87°44'56.3798"	2577208.86	576587.47	0.45
54.502	23°18'8.8136"	87°44'57.0023"	2577199.46	576605.20	0.40
54.529	23°18'8.4063"	87°44'57.8569"	2577187.06	576629.54	0.42
54.556	23°18'8.1304"	87°44'58.7584"	2577178.71	576655.19	0.41
54.577	23°18'7.6751"	87°44'59.3244"	2577164.79	576671.34	0.40
54.597	23°18'7.2022"	87°44'59.8136"	2577150.32	576685.31	0.38
54.622	23°18'6.5950"	87°45'0.4421"	2577131.74	576703.26	0.41
54.645	23°18'6.0545"	87°45'1.0009"	2577115.20	576719.22	0.40

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
54.666	23°18'5.5823"	87°45'1.4897"	2577100.75	576733.18	0.37
54.696	23°18'4.8732"	87°45'2.2236"	2577079.05	576754.14	0.40
54.716	23°18'4.4003"	87°45'2.7128"	2577064.58	576768.11	0.40
54.747	23°18'3.6582"	87°45'3.4807"	2577041.87	576790.04	0.42
54.783	23°18'2.8137"	87°45'4.3543"	2577016.03	576814.99	0.42
54.803	23°18'2.3868"	87°45'4.8891"	2577002.98	576830.25	0.40
54.842	23°18'1.6052"	87°45'5.9602"	2576979.10	576860.80	0.41
54.868	23°18'1.0844"	87°45'6.6748"	2576963.19	576881.18	0.44
54.888	23°18'0.6831"	87°45'7.2326"	2576950.93	576897.09	0.43
54.908	23°18'0.2714"	87°45'7.7830"	2576938.35	576912.79	0.39
54.928	23°17'59.8574"	87°45'8.3306"	2576925.70	576928.41	0.39
54.953	23°17'59.3606"	87°45'9.0009"	2576910.52	576947.53	0.44
54.973	23°17'58.9550"	87°45'9.5566"	2576898.13	576963.38	0.40
54.993	23°17'58.5498"	87°45'10.1120"	2576885.75	576979.22	0.40
55.030	23°17'57.7976"	87°45'11.1434"	2576862.77	577008.64	0.43
55.050	23°17'57.3924"	87°45'11.6991"	2576850.39	577024.49	0.41
55.072	23°17'56.9586"	87°45'12.2941"	2576837.14	577041.46	0.43
55.093	23°17'56.5374"	87°45'12.8712"	2576824.27	577057.92	0.40

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
55.114	23°17'56.1168"	87°45'13.4480"	2576811.42	577074.37	0.39
55.144	23°17'55.5115"	87°45'14.2775"	2576792.93	577098.03	0.42
55.165	23°17'55.0903"	87°45'14.8549"	2576780.06	577114.50	0.40
55.197	23°17'54.4356"	87°45'15.7591"	2576760.06	577140.29	0.40
55.227	23°17'53.8002"	87°45'16.5614"	2576740.64	577163.18	0.42
55.248	23°17'53.3605"	87°45'17.1218"	2576727.20	577179.17	0.39
55.282	23°17'52.6391"	87°45'18.0260"	2576705.15	577204.97	0.41
55.303	23°17'52.2000"	87°45'18.5868"	2576691.73	577220.97	0.41
55.325	23°17'51.7332"	87°45'19.1826"	2576677.46	577237.97	0.40
55.346	23°17'51.2941"	87°45'19.7437"	2576664.04	577253.98	0.40
55.371	23°17'50.7719"	87°45'20.4097"	2576648.08	577272.98	0.42
55.392	23°17'50.3192"	87°45'20.9573"	2576634.24	577288.61	0.39
55.424	23°17'49.6386"	87°45'21.8389"	2576613.44	577313.76	0.41
55.445	23°17'49.2102"	87°45'22.4096"	2576600.35	577330.04	0.43
55.466	23°17'48.7896"	87°45'22.9866"	2576587.50	577346.50	0.38
55.496	23°17'48.1843"	87°45'23.8165"	2576569.01	577370.17	0.41
55.526	23°17'47.5577"	87°45'24.6265"	2576549.86	577393.28	0.38
55.555	23°17'46.9764"	87°45'25.4178"	2576532.10	577415.85	0.38

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
55.588	23°17'46.3236"	87°45'26.3227"	2576512.16	577441.66	0.41
55.608	23°17'45.8629"	87°45'26.8629"	2576498.07	577457.08	0.41
55.641	23°17'45.1220"	87°45'27.6849"	2576475.41	577480.55	0.39
55.668	23°17'44.4950"	87°45'28.3710"	2576456.23	577500.14	0.38
55.696	23°17'43.8787"	87°45'29.0677"	2576437.38	577520.03	0.44
55.717	23°17'43.5115"	87°45'29.6866"	2576426.18	577537.67	0.41
55.748	23°17'42.9825"	87°45'30.6292"	2576410.05	577564.53	0.42
55.770	23°17'42.6089"	87°45'31.2970"	2576398.66	577583.56	0.44
55.791	23°17'42.2355"	87°45'31.9113"	2576387.27	577601.07	0.38
55.830	23°17'41.5367"	87°45'33.0641"	2576365.95	577633.93	0.47
55.851	23°17'41.1604"	87°45'33.6762"	2576354.47	577651.38	0.44
55.880	23°17'40.6361"	87°45'34.5135"	2576338.47	577675.25	0.41
55.902	23°17'40.2405"	87°45'35.1654"	2576326.40	577693.83	0.41
55.923	23°17'39.8609"	87°45'35.7772"	2576314.82	577711.27	0.41
55.944	23°17'39.4853"	87°45'36.3897"	2576303.36	577728.73	0.43
55.965	23°17'39.1781"	87°45'37.0413"	2576294.01	577747.29	0.41
55.986	23°17'38.9316"	87°45'37.7263"	2576286.53	577766.79	0.41
56.006	23°17'38.6847"	87°45'38.4114"	2576279.04	577786.29	0.39

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
56.027	23°17'38.4382"	87°45'39.0968"	2576271.56	577805.80	0.37
56.051	23°17'38.1567"	87°45'39.8658"	2576263.02	577827.69	0.40
56.087	23°17'37.7266"	87°45'41.0652"	2576249.97	577861.83	0.42
56.108	23°17'37.4609"	87°45'41.7420"	2576241.90	577881.10	0.40
56.141	23°17'37.0408"	87°45'42.7971"	2576229.14	577911.14	0.40
56.167	23°17'36.6973"	87°45'43.6376"	2576218.70	577935.07	0.39
56.188	23°17'36.4176"	87°45'44.3076"	2576210.20	577954.15	0.37
56.213	23°17'36.0856"	87°45'45.1034"	2576200.11	577976.81	0.38
56.240	23°17'35.7198"	87°45'45.9835"	2576188.99	578001.87	0.39
56.264	23°17'35.4156"	87°45'46.7425"	2576179.75	578023.48	0.41
56.294	23°17'35.0249"	87°45'47.7101"	2576167.88	578051.03	0.40
56.318	23°17'34.7582"	87°45'48.5341"	2576159.80	578074.48	0.39
56.345	23°17'34.4776"	87°45'49.4017"	2576151.30	578099.17	0.36
56.365	23°17'34.2531"	87°45'50.0960"	2576144.50	578118.93	0.44
56.386	23°17'34.0289"	87°45'50.7899"	2576137.71	578138.68	0.42
56.407	23°17'33.8044"	87°45'51.4836"	2576130.91	578158.42	0.39
56.440	23°17'33.4551"	87°45'52.5626"	2576120.33	578189.13	0.41
56.463	23°17'33.2090"	87°45'53.3459"	2576112.88	578211.42	0.40

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
56.484	23°17'32.9934"	87°45'54.0308"	2576106.35	578230.91	0.40
56.510	23°17'32.7071"	87°45'54.9152"	2576097.68	578256.08	0.45
56.534	23°17'32.4564"	87°45'55.7181"	2576090.09	578278.93	0.44
56.571	23°17'32.0784"	87°45'56.9378"	2576078.65	578313.64	0.41
56.591	23°17'31.8674"	87°45'57.6076"	2576072.26	578332.70	0.40
56.612	23°17'31.6584"	87°45'58.3185"	2576065.94	578352.93	0.44
56.633	23°17'31.4582"	87°45'59.0306"	2576059.89	578373.19	0.43
56.655	23°17'31.2534"	87°45'59.7419"	2576053.70	578393.43	0.43
56.676	23°17'31.0510"	87°46'0.4529"	2576047.58	578413.66	0.44
56.705	23°17'30.7795"	87°46'1.4440"	2576039.38	578441.86	0.45
56.726	23°17'30.5871"	87°46'2.1586"	2576033.57	578462.19	0.42
56.749	23°17'30.3818"	87°46'2.9128"	2576027.37	578483.65	0.45
56.770	23°17'30.1741"	87°46'3.6224"	2576021.09	578503.84	0.43
56.796	23°17'29.9104"	87°46'4.4865"	2576013.11	578528.43	0.43
56.817	23°17'29.6965"	87°46'5.1939"	2576006.64	578548.56	0.40
56.838	23°17'29.4830"	87°46'5.9013"	2576000.18	578568.69	0.40
56.875	23°17'29.1168"	87°46'7.1636"	2575989.11	578604.61	0.44
56.897	23°17'28.9130"	87°46'7.8750"	2575982.95	578624.85	0.42

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
56.930	23°17'28.5705"	87°46'8.9716"	2575972.58	578656.06	0.42
56.958	23°17'28.2670"	87°46'9.9080"	2575963.39	578682.71	0.43
56.981	23°17'27.9891"	87°46'10.6788"	2575954.96	578704.65	0.45
57.002	23°17'27.7597"	87°46'11.3804"	2575948.01	578724.62	0.44
57.023	23°17'27.5325"	87°46'12.0832"	2575941.13	578744.62	0.46
57.045	23°17'27.3050"	87°46'12.7859"	2575934.24	578764.62	0.46
57.066	23°17'27.0775"	87°46'13.4883"	2575927.35	578784.61	0.44
57.100	23°17'26.7026"	87°46'14.6168"	2575915.99	578816.73	0.44
57.121	23°17'26.4686"	87°46'15.3170"	2575908.90	578836.66	0.41
57.156	23°17'26.0970"	87°46'16.4906"	2575897.65	578870.06	0.43
57.183	23°17'25.8357"	87°46'17.3984"	2575889.75	578895.89	0.45
57.204	23°17'25.6299"	87°46'18.1090"	2575883.53	578916.11	0.43
57.228	23°17'25.3965"	87°46'18.8969"	2575876.47	578938.53	0.45
57.249	23°17'25.1888"	87°46'19.6064"	2575870.19	578958.72	0.45
57.270	23°17'24.9967"	87°46'20.3213"	2575864.39	578979.06	0.43
57.311	23°17'24.5876"	87°46'21.6992"	2575852.02	579018.27	0.42
57.338	23°17'24.3211"	87°46'22.6055"	2575843.96	579044.06	0.44
57.360	23°17'24.1182"	87°46'23.3168"	2575837.83	579064.30	0.43

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
57.381	23°17'23.9180"	87°46'24.0292"	2575831.78	579084.57	0.42
57.404	23°17'23.6803"	87°46'24.8153"	2575824.59	579106.94	0.43
57.443	23°17'23.2980"	87°46'26.1159"	2575813.03	579143.95	0.45
57.464	23°17'23.0738"	87°46'26.8193"	2575806.24	579163.97	0.43
57.485	23°17'22.8352"	87°46'27.5171"	2575799.01	579183.83	0.41
57.510	23°17'22.5567"	87°46'28.3318"	2575790.57	579207.02	0.44
57.537	23°17'22.2418"	87°46'29.2198"	2575781.02	579232.30	0.44
57.577	23°17'21.7869"	87°46'30.5369"	2575767.23	579269.79	0.42
57.598	23°17'21.5480"	87°46'31.2353"	2575759.99	579289.67	0.42
57.619	23°17'21.3222"	87°46'31.9352"	2575753.15	579309.59	0.41
57.644	23°17'20.9807"	87°46'32.7214"	2575742.77	579331.98	0.45
57.672	23°17'20.5997"	87°46'33.6239"	2575731.19	579357.68	0.43
57.701	23°17'20.1916"	87°46'34.5586"	2575718.78	579384.30	0.45
57.722	23°17'19.8988"	87°46'35.2324"	2575709.88	579403.49	0.41
57.747	23°17'19.5814"	87°46'36.0303"	2575700.24	579426.21	0.42
57.772	23°17'19.2413"	87°46'36.8169"	2575689.90	579448.61	0.42
57.805	23°17'18.7841"	87°46'37.8639"	2575676.00	579478.43	0.41
57.840	23°17'18.2937"	87°46'38.9854"	2575661.09	579510.37	0.37

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
57.861	23°17'17.9938"	87°46'39.6553"	2575651.97	579529.45	0.31
57.899	23°17'17.4832"	87°46'40.8576"	2575636.45	579563.69	0.35
57.937	23°17'16.8650"	87°46'42.0474"	2575617.62	579597.59	0.43
57.964	23°17'16.4148"	87°46'42.8646"	2575603.90	579620.88	0.43
58.006	23°17'15.7206"	87°46'44.1007"	2575582.74	579656.11	0.47
58.033	23°17'15.2646"	87°46'44.9143"	2575568.84	579679.30	0.47
58.054	23°17'14.9180"	87°46'45.5568"	2575558.28	579697.61	0.46
58.075	23°17'14.5627"	87°46'46.1947"	2575547.45	579715.79	0.45
58.115	23°17'13.9235"	87°46'47.4185"	2575527.98	579750.66	0.47
58.143	23°17'13.4886"	87°46'48.2921"	2575514.74	579775.55	0.46
58.164	23°17'13.1628"	87°46'48.9477"	2575504.82	579794.23	0.46
58.192	23°17'12.7302"	87°46'49.8228"	2575491.65	579819.16	0.47
58.214	23°17'12.4037"	87°46'50.4781"	2575481.71	579837.83	0.47
58.235	23°17'12.0928"	87°46'51.1419"	2575472.25	579856.74	0.47
58.272	23°17'11.5779"	87°46'52.3421"	2575456.60	579890.92	0.47
58.293	23°17'11.2806"	87°46'53.0134"	2575447.56	579910.04	0.47
58.315	23°17'10.9966"	87°46'53.6914"	2575438.93	579929.35	0.46
58.336	23°17'10.7026"	87°46'54.3645"	2575429.99	579948.52	0.46

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
58.364	23°17'10.3157"	87°46'55.2644"	2575418.23	579974.15	0.48
58.385	23°17'9.9860"	87°46'55.9176"	2575408.19	579992.76	0.48
58.406	23°17'9.6475"	87°46'56.5654"	2575397.88	580011.22	0.47
58.427	23°17'9.3110"	87°46'57.2147"	2575387.63	580029.72	0.45
58.448	23°17'8.9796"	87°46'57.8671"	2575377.54	580048.31	0.40
58.470	23°17'8.6437"	87°46'58.5167"	2575367.31	580066.82	0.38
58.491	23°17'8.3072"	87°46'59.1660"	2575357.06	580085.32	0.35
58.526	23°17'7.7700"	87°47'0.2614"	2575340.71	580116.53	0.36
58.555	23°17'7.3378"	87°47'1.1826"	2575327.56	580142.77	0.39
58.577	23°17'7.0246"	87°47'1.8460"	2575318.03	580161.67	0.44
58.599	23°17'6.6947"	87°47'2.5463"	2575307.99	580181.62	0.48
58.620	23°17'6.3808"	87°47'3.2087"	2575298.44	580200.49	0.46
58.641	23°17'6.0676"	87°47'3.8711"	2575288.91	580219.36	0.45
58.662	23°17'5.7564"	87°47'4.5346"	2575279.44	580238.26	0.45
58.696	23°17'5.2224"	87°47'5.5860"	2575263.18	580268.22	0.47
58.729	23°17'4.7107"	87°47'6.6024"	2575247.60	580297.18	0.47
58.768	23°17'4.0866"	87°47'7.7886"	2575228.59	580330.98	0.47
58.789	23°17'3.7565"	87°47'8.4420"	2575218.54	580349.60	0.47

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
58.810	23°17'3.4573"	87°47'9.1116"	2575209.44	580368.67	0.47
58.842	23°17'3.0071"	87°47'10.1163"	2575195.75	580397.29	0.47
58.863	23°17'2.7114"	87°47'10.7883"	2575186.76	580416.43	0.47
58.889	23°17'2.3489"	87°47'11.6099"	2575175.74	580439.83	0.44
58.910	23°17'2.0519"	87°47'12.2808"	2575166.71	580458.94	0.39
58.935	23°17'1.7053"	87°47'13.0644"	2575156.17	580481.26	0.34
58.976	23°17'1.1040"	87°47'14.3570"	2575137.88	580518.08	0.34
58.998	23°17'0.7598"	87°47'15.0487"	2575127.40	580537.79	0.39
59.028	23°17'0.3019"	87°47'15.9556"	2575113.46	580563.63	0.43
59.065	23°16'59.7222"	87°47'17.1208"	2575095.81	580596.83	0.45
59.086	23°16'59.3956"	87°47'17.7768"	2575085.87	580615.52	0.44
59.130	23°16'58.7262"	87°47'19.1217"	2575065.49	580653.84	0.39
59.170	23°16'58.1042"	87°47'20.3472"	2575046.55	580688.76	0.39
59.191	23°16'57.7459"	87°47'20.9826"	2575035.63	580706.87	0.39
59.212	23°16'57.3889"	87°47'21.6186"	2575024.75	580725.00	0.35
59.233	23°16'57.0313"	87°47'22.2547"	2575013.85	580743.13	0.33
59.254	23°16'56.6736"	87°47'22.8908"	2575002.95	580761.26	0.33
59.275	23°16'56.3163"	87°47'23.5268"	2574992.06	580779.39	0.46

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
59.305	23°16'55.8199"	87°47'24.4102"	2574976.93	580804.57	0.47
59.326	23°16'55.4869"	87°47'25.0602"	2574966.79	580823.09	0.42
59.365	23°16'54.9282"	87°47'26.2836"	2574949.80	580857.94	0.48
59.386	23°16'54.6215"	87°47'26.9502"	2574940.47	580876.93	0.47
59.407	23°16'54.3193"	87°47'27.6186"	2574931.28	580895.97	0.46
59.428	23°16'54.0106"	87°47'28.2838"	2574921.89	580914.92	0.45
59.449	23°16'53.6964"	87°47'28.9462"	2574912.33	580933.79	0.39
59.482	23°16'53.2002"	87°47'29.9714"	2574897.23	580963.00	0.47
59.513	23°16'52.7476"	87°47'30.9293"	2574883.46	580990.29	0.47
59.534	23°16'52.4124"	87°47'31.5785"	2574873.25	581008.79	0.47
59.560	23°16'52.0661"	87°47'32.4075"	2574862.73	581032.40	0.48
59.581	23°16'51.7830"	87°47'33.0855"	2574854.13	581051.71	0.47
59.602	23°16'51.5188"	87°47'33.7732"	2574846.11	581071.29	0.46
59.631	23°16'51.1637"	87°47'34.7327"	2574835.34	581098.61	0.48
59.652	23°16'50.9027"	87°47'35.4214"	2574827.42	581118.22	0.47
59.674	23°16'50.6121"	87°47'36.0966"	2574818.59	581137.45	0.47
59.695	23°16'50.3184"	87°47'36.7689"	2574809.66	581156.60	0.47
59.722	23°16'49.9524"	87°47'37.6348"	2574798.54	581181.26	0.46

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
59.751	23°16'49.5594"	87°47'38.5768"	2574786.60	581208.09	0.44
59.772	23°16'49.2766"	87°47'39.2545"	2574778.01	581227.39	0.47
59.793	23°16'48.9848"	87°47'39.9289"	2574769.14	581246.60	0.42
59.819	23°16'48.5409"	87°47'40.7010"	2574755.61	581268.61	0.44
59.858	23°16'47.8668"	87°47'41.8547"	2574735.06	581301.50	0.43
59.887	23°16'47.3600"	87°47'42.7310"	2574719.61	581326.48	0.48
59.909	23°16'47.0024"	87°47'43.3667"	2574708.71	581344.60	0.47
59.930	23°16'46.6447"	87°47'44.0027"	2574697.81	581362.73	0.47
59.951	23°16'46.2699"	87°47'44.6263"	2574686.38	581380.51	0.46
59.972	23°16'45.8607"	87°47'45.2247"	2574673.89	581397.58	0.46
60.010	23°16'45.1214"	87°47'46.2787"	2574651.32	581427.65	0.47
60.031	23°16'44.7064"	87°47'46.8715"	2574638.65	581444.56	0.46
60.071	23°16'43.9239"	87°47'47.9942"	2574614.76	581476.59	0.47
60.093	23°16'43.4889"	87°47'48.6231"	2574601.48	581494.53	0.47
60.115	23°16'43.0497"	87°47'49.2488"	2574588.07	581512.38	0.47
60.136	23°16'42.6347"	87°47'49.8422"	2574575.40	581529.31	0.44
60.158	23°16'42.2057"	87°47'50.4243"	2574562.30	581545.92	0.44
60.199	23°16'41.3627"	87°47'51.5474"	2574536.55	581577.97	0.46

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
60.220	23°16'40.9299"	87°47'52.1263"	2574523.33	581594.49	0.46
60.241	23°16'40.4961"	87°47'52.7035"	2574510.08	581610.96	0.43
60.275	23°16'39.7984"	87°47'53.6356"	2574488.77	581637.56	0.42
60.295	23°16'39.3830"	87°47'54.1857"	2574476.08	581653.26	0.33
60.326	23°16'38.7813"	87°47'55.0301"	2574457.71	581677.35	0.42
60.348	23°16'38.3194"	87°47'55.6401"	2574443.60	581694.76	0.46
60.369	23°16'37.8879"	87°47'56.2197"	2574430.42	581711.30	0.43
60.403	23°16'37.2158"	87°47'57.1731"	2574409.90	581738.50	0.40
60.434	23°16'36.6041"	87°47'58.0202"	2574391.22	581762.67	0.42
60.456	23°16'36.1548"	87°47'58.6370"	2574377.50	581780.27	0.48
60.490	23°16'35.4348"	87°47'59.5485"	2574355.50	581806.29	0.48
60.523	23°16'34.7399"	87°48'0.4286"	2574334.27	581831.41	0.45
60.557	23°16'34.0086"	87°48'1.3298"	2574311.92	581857.14	0.47
60.578	23°16'33.5589"	87°48'1.8931"	2574298.18	581873.22	0.46
60.599	23°16'33.1128"	87°48'2.4596"	2574284.55	581889.39	0.46
60.621	23°16'32.6638"	87°48'3.0233"	2574270.83	581905.48	0.45
60.643	23°16'32.1941"	87°48'3.6223"	2574256.48	581922.58	0.45
60.669	23°16'31.6498"	87°48'4.3160"	2574239.85	581942.38	0.48

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
60.690	23°16'31.2054"	87°48'4.8835"	2574226.27	581958.58	0.41
60.715	23°16'30.6772"	87°48'5.5368"	2574210.13	581977.23	0.40
60.737	23°16'30.2869"	87°48'6.1997"	2574198.23	581996.13	0.47
60.758	23°16'29.9240"	87°48'6.8318"	2574187.17	582014.15	0.45
60.786	23°16'29.4339"	87°48'7.6704"	2574172.23	582038.06	0.45
60.807	23°16'29.0827"	87°48'8.3103"	2574161.53	582056.30	0.41
60.833	23°16'28.7315"	87°48'9.1368"	2574150.86	582079.84	0.47
60.854	23°16'28.4435"	87°48'9.8130"	2574142.11	582099.10	0.47
60.876	23°16'28.1562"	87°48'10.4891"	2574133.38	582118.36	0.45
60.897	23°16'27.8818"	87°48'11.1717"	2574125.05	582137.80	0.48
60.918	23°16'27.6046"	87°48'11.8529"	2574116.63	582157.20	0.46
60.958	23°16'27.0291"	87°48'13.1120"	2574099.13	582193.07	0.49
60.979	23°16'26.8618"	87°48'13.8262"	2574094.10	582213.39	0.49
61.000	23°16'26.7449"	87°48'14.5594"	2574090.62	582234.24	0.48
61.021	23°16'26.6212"	87°48'15.2918"	2574086.93	582255.07	0.47
61.042	23°16'26.5026"	87°48'16.0249"	2574083.40	582275.92	0.47
61.063	23°16'26.3796"	87°48'16.7577"	2574079.73	582296.76	0.47
61.084	23°16'26.2565"	87°48'17.4898"	2574076.06	582317.58	0.47

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
61.106	23°16'26.1334"	87°48'18.2222"	2574072.39	582338.41	0.47
61.130	23°16'25.9807"	87°48'19.0738"	2574067.83	582362.63	0.48
61.169	23°16'25.4836"	87°48'20.3277"	2574052.74	582398.34	0.46
61.194	23°16'25.1657"	87°48'21.1254"	2574043.09	582421.06	0.44
61.215	23°16'24.8939"	87°48'21.8087"	2574034.84	582440.52	0.43
61.239	23°16'24.5595"	87°48'22.5965"	2574024.68	582462.96	0.41
61.279	23°16'23.8647"	87°48'23.7852"	2574003.50	582496.85	0.43
61.302	23°16'23.4769"	87°48'24.4495"	2573991.68	582515.79	0.46
61.323	23°16'23.1092"	87°48'25.0777"	2573980.47	582533.70	0.45
61.351	23°16'22.6155"	87°48'25.9141"	2573965.42	582557.55	0.47
61.372	23°16'22.1823"	87°48'26.4926"	2573952.19	582574.06	0.46
61.412	23°16'21.3644"	87°48'27.5848"	2573927.21	582605.23	0.47
61.433	23°16'20.9345"	87°48'28.1654"	2573914.08	582621.80	0.47
61.460	23°16'20.3789"	87°48'28.9029"	2573897.11	582642.85	0.47
61.483	23°16'19.9212"	87°48'29.5126"	2573883.13	582660.25	0.47
61.504	23°16'19.4579"	87°48'30.0628"	2573868.97	582675.96	0.47
61.527	23°16'18.9436"	87°48'30.6742"	2573853.25	582693.42	0.47
61.548	23°16'18.4806"	87°48'31.2243"	2573839.10	582709.13	0.44

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
61.570	23°16'18.0173"	87°48'31.7752"	2573824.94	582724.86	0.35
61.591	23°16'17.5263"	87°48'32.2931"	2573809.92	582739.66	0.33
61.613	23°16'16.9676"	87°48'32.7948"	2573792.82	582754.01	0.37
61.634	23°16'16.4349"	87°48'33.2657"	2573776.51	582767.48	0.36
61.655	23°16'15.8979"	87°48'33.7309"	2573760.07	582780.79	0.35
61.678	23°16'15.3325"	87°48'34.2234"	2573742.76	582794.88	0.40
61.706	23°16'14.6223"	87°48'34.8509"	2573721.02	582812.83	0.44
61.727	23°16'14.0476"	87°48'35.2547"	2573703.41	582824.40	0.42
61.748	23°16'13.4381"	87°48'35.6001"	2573684.72	582834.32	0.39
61.769	23°16'12.8292"	87°48'35.9460"	2573666.05	582844.25	0.37
61.790	23°16'12.2219"	87°48'36.2949"	2573647.43	582854.27	0.37
61.815	23°16'11.5181"	87°48'36.7113"	2573625.85	582866.22	0.40
61.849	23°16'10.5120"	87°48'37.2127"	2573594.99	582880.64	0.44
61.876	23°16'9.7072"	87°48'37.5943"	2573570.30	582891.62	0.47
61.897	23°16'9.0726"	87°48'37.8815"	2573550.83	582899.89	0.49
61.918	23°16'8.4431"	87°48'38.1804"	2573531.52	582908.49	0.49
61.940	23°16'7.8159"	87°48'38.4864"	2573512.28	582917.29	0.45
61.962	23°16'7.1257"	87°48'38.7169"	2573491.09	582923.96	0.49

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
61.983	23°16'6.4503"	87°48'38.8550"	2573470.34	582928.00	0.47
62.004	23°16'5.7739"	87°48'38.9917"	2573449.56	582932.00	0.47
62.025	23°16'5.0972"	87°48'39.1224"	2573428.77	582935.83	0.47
62.047	23°16'4.4226"	87°48'39.2693"	2573408.05	582940.12	0.47
62.068	23°16'3.7466"	87°48'39.4074"	2573387.28	582944.16	0.47
62.089	23°16'3.0714"	87°48'39.5498"	2573366.54	582948.32	0.46
62.110	23°16'2.3960"	87°48'39.6896"	2573345.79	582952.41	0.46
62.131	23°16'1.7208"	87°48'39.8305"	2573325.05	582956.53	0.47
62.152	23°16'1.0411"	87°48'39.9148"	2573304.16	582959.04	0.46
62.173	23°16'0.3573"	87°48'39.8424"	2573283.12	582957.10	0.48
62.195	23°15'59.6743"	87°48'39.7509"	2573262.10	582954.62	0.45
62.235	23°15'58.3818"	87°48'39.6104"	2573222.33	582950.85	0.47
62.256	23°15'57.6963"	87°48'39.5542"	2573201.24	582949.37	0.47
62.291	23°15'56.5525"	87°48'39.4737"	2573166.05	582947.28	0.47
62.327	23°15'55.3705"	87°48'39.4029"	2573129.69	582945.47	0.48
62.348	23°15'54.6939"	87°48'39.2717"	2573108.86	582941.86	0.47
62.370	23°15'54.0165"	87°48'39.1451"	2573088.01	582938.38	0.44
62.395	23°15'53.1932"	87°48'38.9635"	2573062.66	582933.36	0.44

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
62.434	23°15'51.9499"	87°48'38.7388"	2573024.39	582927.19	0.43
62.459	23°15'51.1544"	87°48'38.6284"	2572999.91	582924.19	0.41
62.498	23°15'49.8867"	87°48'38.4159"	2572960.89	582918.37	0.44
62.525	23°15'49.0218"	87°48'38.4047"	2572934.29	582918.20	0.43
62.545	23°15'48.3569"	87°48'38.4510"	2572913.85	582919.63	0.42
62.572	23°15'47.5115"	87°48'38.5149"	2572887.86	582921.59	0.46
62.592	23°15'46.8615"	87°48'38.5715"	2572867.88	582923.31	0.44
62.625	23°15'45.7677"	87°48'38.6799"	2572834.26	582926.58	0.45
62.659	23°15'44.6775"	87°48'38.7993"	2572800.75	582930.16	0.45
62.689	23°15'43.7439"	87°48'39.1150"	2572772.09	582939.29	0.47
62.709	23°15'43.1224"	87°48'39.3273"	2572753.01	582945.43	0.46
62.747	23°15'41.9802"	87°48'39.7955"	2572717.96	582958.93	0.47
62.783	23°15'40.8951"	87°48'40.2986"	2572684.67	582973.41	0.45
62.814	23°15'39.9596"	87°48'40.7353"	2572655.97	582985.98	0.46
62.834	23°15'39.3638"	87°48'41.0199"	2572637.69	582994.17	0.46
62.855	23°15'38.7756"	87°48'41.3261"	2572619.65	583002.97	0.43
62.875	23°15'38.1884"	87°48'41.6322"	2572601.64	583011.77	0.41
62.895	23°15'37.5992"	87°48'41.9345"	2572583.57	583020.46	0.44

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
62.923	23°15'36.7538"	87°48'42.3732"	2572557.64	583033.07	0.47
62.944	23°15'36.1926"	87°48'42.7323"	2572540.44	583043.37	0.46
62.977	23°15'35.2465"	87°48'43.3400"	2572511.44	583060.80	0.47
63.016	23°15'34.1597"	87°48'44.0380"	2572478.13	583080.82	0.48
63.036	23°15'33.6053"	87°48'44.4080"	2572461.14	583091.43	0.48
63.056	23°15'33.0564"	87°48'44.7897"	2572444.32	583102.37	0.48
63.076	23°15'32.5079"	87°48'45.1707"	2572427.51	583113.29	0.47
63.096	23°15'31.9596"	87°48'45.5510"	2572410.71	583124.19	0.46
63.116	23°15'31.3856"	87°48'45.8867"	2572393.11	583133.83	0.44
63.137	23°15'30.8077"	87°48'46.2141"	2572375.39	583143.23	0.43
63.165	23°15'29.9773"	87°48'46.6859"	2572349.93	583156.78	0.42
63.187	23°15'29.3636"	87°48'47.0334"	2572331.11	583166.76	0.45
63.208	23°15'28.7479"	87°48'47.3763"	2572312.23	583176.61	0.48
63.228	23°15'28.1832"	87°48'47.7280"	2572294.92	583186.70	0.47
63.248	23°15'27.6275"	87°48'48.0973"	2572277.89	583197.29	0.47
63.268	23°15'27.0702"	87°48'48.4642"	2572260.81	583207.81	0.41
63.289	23°15'26.4745"	87°48'48.8463"	2572242.55	583218.77	0.44
63.316	23°15'25.7375"	87°48'49.3179"	2572219.96	583232.30	0.42

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
63.352	23°15'24.6800"	87°48'49.8859"	2572187.53	583248.62	0.47
63.372	23°15'24.0828"	87°48'50.1694"	2572169.21	583256.78	0.46
63.398	23°15'23.3011"	87°48'50.5469"	2572145.23	583267.64	0.46
63.422	23°15'22.5972"	87°48'50.8966"	2572123.64	583277.70	0.47
63.442	23°15'22.0026"	87°48'51.1855"	2572105.40	583286.01	0.46
63.462	23°15'21.4093"	87°48'51.4771"	2572087.20	583294.40	0.43
63.484	23°15'20.7769"	87°48'51.7830"	2572067.80	583303.20	0.47
63.504	23°15'20.1897"	87°48'52.0884"	2572049.79	583311.98	0.47
63.530	23°15'19.4035"	87°48'52.4531"	2572025.67	583322.48	0.48
63.550	23°15'18.8159"	87°48'52.7603"	2572007.65	583331.31	0.47
63.570	23°15'18.2309"	87°48'53.0710"	2571989.71	583340.24	0.44
63.590	23°15'17.6411"	87°48'53.3715"	2571971.62	583348.88	0.43
63.625	23°15'16.6105"	87°48'53.9019"	2571940.01	583364.13	0.47
63.645	23°15'16.0291"	87°48'54.2201"	2571922.18	583373.27	0.46
63.667	23°15'15.4002"	87°48'54.5358"	2571902.89	583382.35	0.46
63.694	23°15'14.5910"	87°48'54.9521"	2571878.07	583394.32	0.46
63.724	23°15'13.7090"	87°48'55.4109"	2571851.02	583407.51	0.46
63.753	23°15'12.8761"	87°48'55.8746"	2571825.48	583420.83	0.48

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
63.773	23°15'12.3088"	87°48'56.2234"	2571808.09	583430.84	0.46
63.796	23°15'11.6704"	87°48'56.6144"	2571788.52	583442.06	0.46
63.821	23°15'10.9619"	87°48'57.0503"	2571766.80	583454.57	0.45
63.841	23°15'10.3943"	87°48'57.3974"	2571749.40	583464.53	0.46
63.861	23°15'9.8280"	87°48'57.7466"	2571732.04	583474.55	0.46
63.886	23°15'9.1159"	87°48'58.1769"	2571710.21	583486.90	0.43
63.906	23°15'8.5493"	87°48'58.5260"	2571692.84	583496.92	0.43
63.926	23°15'7.9830"	87°48'58.8752"	2571675.48	583506.94	0.46
63.946	23°15'7.4125"	87°48'59.2170"	2571657.99	583516.75	0.46
63.966	23°15'6.8455"	87°48'59.5651"	2571640.61	583526.74	0.46
63.986	23°15'6.2445"	87°48'59.8370"	2571622.17	583534.57	0.47
64.006	23°15'5.6418"	87°49'0.1071"	2571603.68	583542.35	0.46
64.026	23°15'5.0401"	87°49'0.3793"	2571585.22	583550.19	0.41
64.054	23°15'4.2126"	87°49'0.7529"	2571559.83	583560.95	0.41
64.075	23°15'3.5738"	87°49'1.0422"	2571540.23	583569.28	0.44
64.105	23°15'2.6712"	87°49'1.4502"	2571512.54	583581.03	0.47
64.134	23°15'1.8062"	87°49'1.8415"	2571486.00	583592.30	0.47
64.154	23°15'1.2116"	87°49'2.1303"	2571467.76	583600.61	0.47

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
64.174	23°15'0.6240"	87°49'2.4364"	2571449.74	583609.41	0.45
64.194	23°15'0.0362"	87°49'2.7418"	2571431.71	583618.19	0.45
64.214	23°14'59.4493"	87°49'3.0472"	2571413.71	583626.97	0.44
64.244	23°14'58.5666"	87°49'3.5057"	2571386.64	583640.15	0.48
64.264	23°14'57.9788"	87°49'3.8110"	2571368.61	583648.93	0.49
64.284	23°14'57.3723"	87°49'4.0671"	2571350.00	583656.31	0.48
64.305	23°14'56.7578"	87°49'4.3047"	2571331.14	583663.17	0.47
64.325	23°14'56.1439"	87°49'4.5420"	2571312.30	583670.02	0.47
64.350	23°14'55.3760"	87°49'4.8368"	2571288.73	583678.53	0.49
64.370	23°14'54.7614"	87°49'5.0745"	2571269.87	583685.39	0.48
64.390	23°14'54.1473"	87°49'5.3100"	2571251.02	583692.19	0.47
64.427	23°14'52.9760"	87°49'5.6879"	2571215.06	583703.13	0.47
64.447	23°14'52.3525"	87°49'5.8941"	2571195.92	583709.10	0.47
64.467	23°14'51.7249"	87°49'6.0849"	2571176.65	583714.63	0.46
64.487	23°14'51.0993"	87°49'6.2824"	2571157.44	583720.35	0.45
64.508	23°14'50.4742"	87°49'6.4844"	2571138.25	583726.20	0.47
64.528	23°14'49.8511"	87°49'6.6921"	2571119.12	583732.21	0.46
64.548	23°14'49.2334"	87°49'6.9182"	2571100.16	583738.74	0.43

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
64.575	23°14'48.3840"	87°49'7.2290"	2571074.09	583747.72	0.46
64.595	23°14'47.7625"	87°49'7.4416"	2571055.01	583753.87	0.44
64.632	23°14'46.6472"	87°49'7.8645"	2571020.78	583766.08	0.45
64.652	23°14'46.0299"	87°49'8.0905"	2571001.83	583772.61	0.42
64.674	23°14'45.3375"	87°49'8.3516"	2570980.58	583780.15	0.45
64.694	23°14'44.7217"	87°49'8.5857"	2570961.68	583786.91	0.45
64.714	23°14'44.1056"	87°49'8.8153"	2570942.77	583793.54	0.44
64.745	23°14'43.1723"	87°49'9.2100"	2570914.13	583804.92	0.46
64.773	23°14'42.4623"	87°49'9.8028"	2570892.39	583821.89	0.49
64.793	23°14'41.9530"	87°49'10.2431"	2570876.80	583834.49	0.48
64.813	23°14'41.4370"	87°49'10.6746"	2570861.00	583846.84	0.48
64.833	23°14'40.9007"	87°49'11.0728"	2570844.57	583858.25	0.47
64.853	23°14'40.3237"	87°49'11.4004"	2570826.88	583867.66	0.46
64.886	23°14'39.3851"	87°49'11.9331"	2570798.10	583882.96	0.47
64.906	23°14'38.8085"	87°49'12.2621"	2570780.42	583892.41	0.46
64.926	23°14'38.2290"	87°49'12.5855"	2570762.65	583901.70	0.45
64.948	23°14'37.5928"	87°49'12.9789"	2570743.15	583912.99	0.47
64.971	23°14'36.9718"	87°49'13.4019"	2570724.12	583925.12	0.47

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
65.001	23°14'36.1588"	87°49'13.9892"	2570699.21	583941.95	0.48
65.021	23°14'35.6098"	87°49'14.3701"	2570682.39	583952.87	0.48
65.049	23°14'34.8579"	87°49'14.8975"	2570659.35	583967.99	0.49
65.069	23°14'34.3193"	87°49'15.2929"	2570642.85	583979.32	0.47
65.089	23°14'33.7642"	87°49'15.6632"	2570625.84	583989.94	0.47
65.121	23°14'32.9546"	87°49'16.3941"	2570601.06	584010.85	0.48
65.141	23°14'32.4858"	87°49'16.8839"	2570586.72	584024.85	0.47
65.161	23°14'32.0240"	87°49'17.3818"	2570572.60	584039.08	0.47
65.181	23°14'31.5536"	87°49'17.8708"	2570558.21	584053.06	0.47
65.201	23°14'31.1051"	87°49'18.3811"	2570544.50	584067.64	0.46
65.225	23°14'30.6214"	87°49'19.0355"	2570529.73	584086.32	0.48
65.245	23°14'30.2117"	87°49'19.5847"	2570517.22	584102.00	0.47
65.268	23°14'29.7552"	87°49'20.2058"	2570503.28	584119.73	0.47
65.288	23°14'29.3394"	87°49'20.7487"	2570490.58	584135.23	0.46
65.309	23°14'28.9097"	87°49'21.3366"	2570477.46	584152.01	0.48
65.329	23°14'28.4993"	87°49'21.8858"	2570464.93	584167.69	0.48
65.349	23°14'28.1088"	87°49'22.4503"	2570453.01	584183.80	0.46
65.373	23°14'27.6497"	87°49'23.1252"	2570439.00	584203.06	0.47

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
65.402	23°14'27.0874"	87°49'23.9371"	2570421.84	584226.23	0.46
65.422	23°14'26.6998"	87°49'24.5040"	2570410.01	584242.41	0.44
65.461	23°14'26.0113"	87°49'25.6463"	2570389.02	584274.99	0.46
65.481	23°14'25.6926"	87°49'26.2619"	2570379.32	584292.54	0.43
65.502	23°14'25.3549"	87°49'26.9164"	2570369.04	584311.20	0.47
65.522	23°14'25.0376"	87°49'27.5327"	2570359.38	584328.77	0.46
65.547	23°14'24.6414"	87°49'28.3037"	2570347.32	584350.75	0.47
65.575	23°14'24.2242"	87°49'29.1615"	2570334.63	584375.20	0.47
65.595	23°14'23.9555"	87°49'29.8049"	2570326.47	584393.53	0.46
65.620	23°14'23.6268"	87°49'30.6118"	2570316.49	584416.52	0.47
65.640	23°14'23.3519"	87°49'31.2512"	2570308.14	584434.74	0.47
65.660	23°14'23.0987"	87°49'31.9024"	2570300.46	584453.29	0.47
65.681	23°14'22.7941"	87°49'32.5755"	2570291.20	584472.47	0.47
65.703	23°14'22.4885"	87°49'33.2429"	2570281.91	584491.49	0.47
65.729	23°14'22.1082"	87°49'34.0759"	2570270.35	584515.23	0.49
65.750	23°14'21.8039"	87°49'34.7401"	2570261.10	584534.16	0.49
65.771	23°14'21.5039"	87°49'35.3995"	2570251.98	584552.95	0.47
65.791	23°14'21.2099"	87°49'36.0335"	2570243.04	584571.02	0.46

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
65.819	23°14'21.8033"	87°49'37.2652"	2570261.49	584605.92	30.89
65.838	23°14'21.6381"	87°49'37.8842"	2570256.51	584623.54	31.05
65.856	23°14'21.4652"	87°49'38.4944"	2570251.29	584640.91	30.96
65.874	23°14'21.3000"	87°49'39.1130"	2570246.31	584658.52	30.94
65.892	23°14'21.1190"	87°49'39.7147"	2570240.84	584675.65	30.77
65.910	23°14'20.9460"	87°49'40.3252"	2570235.62	584693.03	30.75
65.923	23°14'20.7432"	87°49'40.9221"	2570229.48	584710.03	30.75
65.941	23°14'20.4684"	87°49'41.4869"	2570221.12	584726.13	30.85
65.957	23°14'19.3732"	87°49'41.4830"	2570187.44	584726.21	0.47
65.977	23°14'19.0649"	87°49'42.1064"	2570178.06	584743.98	0.46
66.014	23°14'18.5558"	87°49'43.3155"	2570162.60	584778.43	0.45
66.035	23°14'18.2783"	87°49'43.9658"	2570154.17	584796.96	0.43
66.055	23°14'18.0001"	87°49'44.6161"	2570145.72	584815.49	0.41
66.090	23°14'17.4863"	87°49'45.7238"	2570130.10	584847.06	0.39
66.123	23°14'16.8843"	87°49'46.6677"	2570111.74	584873.99	0.46
66.143	23°14'16.5112"	87°49'47.2600"	2570100.36	584890.89	0.45
66.172	23°14'15.9833"	87°49'48.0844"	2570084.26	584914.41	0.44
66.192	23°14'15.6454"	87°49'48.7009"	2570073.97	584931.99	0.44

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
66.222	23°14'15.1587"	87°49'49.6100"	2570059.15	584957.91	0.41
66.256	23°14'14.5348"	87°49'50.5854"	2570040.12	584985.74	0.41
66.291	23°14'13.7389"	87°49'51.4819"	2570015.79	585011.36	0.43
66.324	23°14'13.0262"	87°49'52.3301"	2569994.01	585035.59	0.43
66.362	23°14'12.0983"	87°49'53.2125"	2569965.62	585060.83	0.45
66.382	23°14'11.5883"	87°49'53.6703"	2569950.01	585073.93	0.44
66.403	23°14'11.0812"	87°49'54.1309"	2569934.49	585087.11	0.38
66.430	23°14'10.4023"	87°49'54.7411"	2569913.71	585104.57	0.42
66.454	23°14'9.7523"	87°49'55.2346"	2569893.80	585118.71	0.45
66.494	23°14'8.6927"	87°49'56.0116"	2569861.34	585140.98	0.45
66.514	23°14'8.1517"	87°49'56.4246"	2569844.77	585152.81	0.39
66.548	23°14'7.2081"	87°49'57.0148"	2569815.85	585169.75	0.42
66.586	23°14'6.1171"	87°49'57.6445"	2569782.40	585187.84	0.42
66.614	23°14'5.3029"	87°49'58.1240"	2569757.44	585201.61	0.43
66.634	23°14'4.7210"	87°49'58.4656"	2569739.60	585211.42	0.36
66.660	23°14'3.9855"	87°49'58.9023"	2569717.05	585223.96	0.39
66.681	23°14'3.4119"	87°49'59.2611"	2569699.47	585234.26	0.38
66.701	23°14'2.8329"	87°49'59.6076"	2569681.72	585244.21	0.43

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
66.736	23°14'1.8382"	87°50'0.2278"	2569651.23	585262.01	0.39
66.763	23°14'1.0705"	87°50'0.7005"	2569627.70	585275.58	0.40
66.793	23°14'0.2282"	87°50'1.2238"	2569601.88	585290.60	0.41
66.818	23°13'59.5282"	87°50'1.6293"	2569580.42	585302.25	0.40
66.838	23°13'58.9466"	87°50'1.9730"	2569562.59	585312.12	0.37
66.860	23°13'58.3233"	87°50'2.3330"	2569543.48	585322.46	0.42
66.891	23°13'57.4292"	87°50'2.8534"	2569516.07	585337.41	0.42
66.915	23°13'56.7315"	87°50'3.2643"	2569494.68	585349.21	0.43
66.936	23°13'56.1502"	87°50'3.6080"	2569476.86	585359.08	0.41
66.960	23°13'55.4654"	87°50'4.0460"	2569455.87	585371.65	0.45
66.981	23°13'54.9018"	87°50'4.4222"	2569438.60	585382.44	0.37
67.001	23°13'54.3337"	87°50'4.7899"	2569421.19	585392.99	0.37
67.023	23°13'53.7336"	87°50'5.1936"	2569402.80	585404.57	0.39
67.047	23°13'53.0616"	87°50'5.6510"	2569382.21	585417.69	0.44
67.067	23°13'52.4942"	87°50'6.0194"	2569364.82	585428.26	0.39
67.099	23°13'51.6307"	87°50'6.5981"	2569338.36	585444.86	0.43
67.119	23°13'51.0614"	87°50'6.9626"	2569320.91	585455.32	0.40
67.139	23°13'50.4801"	87°50'7.3063"	2569303.09	585465.19	0.38

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
67.160	23°13'49.8991"	87°50'7.6503"	2569285.28	585475.07	0.42
67.196	23°13'48.8533"	87°50'8.2687"	2569253.22	585492.83	0.45
67.217	23°13'48.2734"	87°50'8.6138"	2569235.44	585502.74	0.49
67.237	23°13'47.6959"	87°50'8.9659"	2569217.74	585512.85	0.47
67.258	23°13'47.1085"	87°50'9.2965"	2569199.73	585522.35	0.41
67.278	23°13'46.5279"	87°50'9.6405"	2569181.93	585532.23	0.40
67.300	23°13'45.9062"	87°50'10.0047"	2569162.87	585542.69	0.43
67.320	23°13'45.3204"	87°50'10.3371"	2569144.91	585552.24	0.37
67.343	23°13'44.6599"	87°50'10.7235"	2569124.66	585563.34	0.41
67.369	23°13'43.9179"	87°50'11.1464"	2569101.91	585575.49	0.45
67.399	23°13'43.0581"	87°50'11.6361"	2569075.55	585589.56	0.41
67.431	23°13'42.1198"	87°50'12.1682"	2569046.78	585604.85	0.45
67.460	23°13'41.3024"	87°50'12.6410"	2569021.72	585618.43	0.38
67.483	23°13'40.6531"	87°50'13.0489"	2569001.82	585630.14	0.41
67.520	23°13'39.6282"	87°50'13.7072"	2568970.41	585649.03	0.39
67.551	23°13'38.7587"	87°50'14.2647"	2568943.76	585665.03	0.36
67.573	23°13'38.1241"	87°50'14.6619"	2568924.31	585676.43	0.40
67.611	23°13'37.0693"	87°50'15.3308"	2568891.98	585695.63	0.35

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
67.633	23°13'36.4321"	87°50'15.7237"	2568872.45	585706.91	0.41
67.653	23°13'35.8722"	87°50'16.0862"	2568855.29	585717.31	0.38
67.684	23°13'35.0278"	87°50'16.6192"	2568829.41	585732.61	0.41
67.719	23°13'34.0525"	87°50'17.2602"	2568799.52	585751.00	0.42
67.739	23°13'33.5374"	87°50'17.6901"	2568783.75	585763.31	0.40
67.766	23°13'32.8525"	87°50'18.3160"	2568762.79	585781.22	0.40
67.791	23°13'32.2853"	87°50'18.9373"	2568745.45	585798.98	0.43
67.825	23°13'31.6338"	87°50'19.8966"	2568725.57	585826.36	0.38
67.846	23°13'31.2231"	87°50'20.5002"	2568713.04	585843.59	0.38
67.879	23°13'30.5615"	87°50'21.3951"	2568692.84	585869.14	0.41
67.899	23°13'30.1392"	87°50'21.9332"	2568679.94	585884.51	0.39
67.932	23°13'29.4558"	87°50'22.8092"	2568659.07	585909.53	0.43
67.952	23°13'29.0215"	87°50'23.3346"	2568645.80	585924.54	0.40
67.991	23°13'28.1671"	87°50'24.3415"	2568619.69	585953.31	0.40
68.011	23°13'27.7247"	87°50'24.8599"	2568606.17	585968.12	0.38
68.037	23°13'27.1400"	87°50'25.5363"	2568588.30	585987.45	0.43
68.057	23°13'26.6928"	87°50'26.0493"	2568574.63	586002.11	0.39
68.084	23°13'26.0774"	87°50'26.7548"	2568555.82	586022.27	0.38

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
68.113	23°13'25.4370"	87°50'27.4959"	2568536.25	586043.45	0.42
68.137	23°13'24.9290"	87°50'28.1275"	2568520.73	586061.49	0.37
68.168	23°13'24.2557"	87°50'28.9550"	2568500.16	586085.13	0.39
68.205	23°13'23.5313"	87°50'29.9652"	2568478.05	586113.97	0.40
68.225	23°13'23.1307"	87°50'30.5221"	2568465.82	586129.87	0.39
68.247	23°13'22.6608"	87°50'31.1317"	2568451.47	586147.28	0.43
68.267	23°13'22.2394"	87°50'31.6698"	2568438.60	586162.65	0.37
68.304	23°13'21.4817"	87°50'32.6509"	2568415.46	586190.67	0.40
68.325	23°13'21.0144"	87°50'33.2035"	2568401.18	586206.46	0.44
68.345	23°13'20.5484"	87°50'33.6963"	2568386.93	586220.55	0.36
68.373	23°13'19.9200"	87°50'34.3880"	2568367.72	586240.32	0.40
68.400	23°13'19.2829"	87°50'35.0697"	2568348.24	586259.81	0.36
68.433	23°13'18.5689"	87°50'35.9174"	2568326.42	586284.03	0.37
68.462	23°13'17.9376"	87°50'36.6667"	2568307.13	586305.44	0.41
68.482	23°13'17.5020"	87°50'37.1913"	2568293.82	586320.43	0.40
68.517	23°13'16.7317"	87°50'38.0942"	2568270.28	586346.23	0.39
68.540	23°13'16.1864"	87°50'38.6882"	2568253.61	586363.21	0.37
68.567	23°13'15.5875"	87°50'39.3501"	2568235.30	586382.13	0.45

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
68.587	23°13'15.1309"	87°50'39.8542"	2568221.34	586396.54	0.40
68.613	23°13'14.5504"	87°50'40.5331"	2568203.60	586415.94	0.39
68.643	23°13'13.9417"	87°50'41.3610"	2568185.02	586439.58	0.44
68.663	23°13'13.5297"	87°50'41.9083"	2568172.44	586455.21	0.37
68.695	23°13'12.8904"	87°50'42.7663"	2568152.92	586479.71	0.47
68.715	23°13'12.4706"	87°50'43.3051"	2568140.10	586495.10	0.43
68.742	23°13'11.8668"	87°50'44.0226"	2568121.65	586515.60	0.40
68.765	23°13'11.3730"	87°50'44.6095"	2568106.56	586532.37	0.40
68.785	23°13'10.9315"	87°50'45.1285"	2568093.07	586547.20	0.40
68.814	23°13'10.3019"	87°50'45.8792"	2568073.83	586568.65	0.41
68.834	23°13'9.8520"	87°50'46.3879"	2568060.08	586583.19	0.40
68.861	23°13'9.2615"	87°50'47.1170"	2568042.04	586604.02	0.40
68.881	23°13'8.8488"	87°50'47.6629"	2568029.44	586619.61	0.37
68.901	23°13'8.4352"	87°50'48.2085"	2568016.81	586635.19	0.37
68.940	23°13'7.6354"	87°50'49.2666"	2567992.39	586665.41	0.42
68.961	23°13'7.1969"	87°50'49.8465"	2567979.00	586681.97	0.39
68.989	23°13'6.6300"	87°50'50.5986"	2567961.69	586703.45	0.39
69.017	23°13'6.0618"	87°50'51.3487"	2567944.34	586724.87	0.41

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
69.037	23°13'5.6485"	87°50'51.8945"	2567931.72	586740.46	0.36
69.062	23°13'5.1317"	87°50'52.5763"	2567915.94	586759.93	0.38
69.082	23°13'4.7171"	87°50'53.1211"	2567903.28	586775.49	0.38
69.104	23°13'4.3129"	87°50'53.7814"	2567890.96	586794.33	0.40
69.137	23°13'3.7892"	87°50'54.7773"	2567875.02	586822.73	0.40
69.161	23°13'3.4009"	87°50'55.5020"	2567863.20	586843.40	0.39
69.188	23°13'2.9581"	87°50'56.3457"	2567849.72	586867.46	0.34
69.208	23°13'2.6364"	87°50'56.9597"	2567839.93	586884.97	0.44
69.228	23°13'2.3073"	87°50'57.5680"	2567829.91	586902.32	0.43
69.249	23°13'1.9792"	87°50'58.1778"	2567819.92	586919.71	0.37
69.275	23°13'1.5320"	87°50'58.9673"	2567806.30	586942.23	0.40
69.306	23°13'1.0057"	87°50'59.9058"	2567790.27	586969.00	0.41
69.327	23°13'0.6521"	87°51'0.5301"	2567779.50	586986.81	0.39
69.341	23°13'01.2507"	87°51'01.4944"	2567798.07	587014.11	24.98
69.372	23°12'59.8823"	87°51'1.8850"	2567756.05	587025.46	0.40
69.374	23°13'00.6824"	87°51'02.5005"	2567780.76	587042.81	25.08
69.399	23°12'59.4479"	87°51'2.7214"	2567742.83	587049.31	0.34
69.420	23°12'59.1655"	87°51'3.3944"	2567734.26	587068.49	0.35

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
69.448	23°12'58.7933"	87°51'4.2849"	2567722.96	587093.87	0.37
69.485	23°12'58.3063"	87°51'5.4580"	2567708.18	587127.30	0.38
69.507	23°12'57.9963"	87°51'6.1519"	2567698.76	587147.08	0.33
69.534	23°12'57.6062"	87°51'7.0339"	2567686.91	587172.22	0.33
69.566	23°12'57.1537"	87°51'8.0260"	2567673.16	587200.50	0.35
69.591	23°12'56.7953"	87°51'8.8093"	2567662.27	587222.83	0.39
69.611	23°12'56.4972"	87°51'9.4611"	2567653.21	587241.41	0.33
69.646	23°12'56.8686"	87°51'11.0136"	2567664.89	587285.47	25.32
69.664	23°12'56.5174"	87°51'11.6136"	2567654.19	587302.59	24.91
69.686	23°12'56.2327"	87°51'12.3007"	2567645.55	587322.17	25.02
69.706	23°12'55.8540"	87°51'12.8851"	2567634.00	587338.85	25.11
69.725	23°12'55.4128"	87°51'13.4009"	2567620.52	587353.59	25.3
69.748	23°12'55.2377"	87°51'14.2082"	2567615.27	587376.57	25.23
69.770	23°12'54.9169"	87°51'14.8500"	2567605.51	587394.87	25.13
69.791	23°12'54.6197"	87°51'15.5053"	2567596.48	587413.55	25.22
69.820	23°12'53.3442"	87°51'15.9500"	2567557.33	587426.42	0.37
69.840	23°12'53.0579"	87°51'16.5839"	2567548.63	587444.49	0.44
69.860	23°12'52.7689"	87°51'17.2160"	2567539.85	587462.51	0.39

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
69.882	23°12'52.4490"	87°51'17.9303"	2567530.13	587482.87	0.41
69.903	23°12'52.1546"	87°51'18.5589"	2567521.18	587500.79	0.41
69.923	23°12'51.8251"	87°51'19.1679"	2567511.15	587518.16	0.39
69.959	23°12'51.2390"	87°51'20.2780"	2567493.31	587549.82	0.37
69.993	23°12'50.7107"	87°51'21.3213"	2567477.24	587579.57	0.42
70.022	23°12'50.2782"	87°51'22.2213"	2567464.09	587605.23	0.40
70.042	23°12'49.9906"	87°51'22.8538"	2567455.35	587623.26	0.36
70.068	23°12'49.6984"	87°51'23.7237"	2567446.51	587648.04	0.41
70.094	23°12'49.4043"	87°51'24.5929"	2567437.61	587672.80	0.39
70.122	23°12'49.1024"	87°51'25.5064"	2567428.48	587698.82	0.36
70.144	23°12'48.8522"	87°51'26.2527"	2567420.91	587720.08	0.38
70.168	23°12'48.5923"	87°51'27.0416"	2567413.05	587742.55	0.41
70.188	23°12'48.3776"	87°51'27.7076"	2567406.56	587761.52	0.40
70.208	23°12'48.1510"	87°51'28.3690"	2567399.70	587780.36	0.41
70.228	23°12'47.9269"	87°51'29.0307"	2567392.92	587799.21	0.40
70.255	23°12'47.6983"	87°51'29.9204"	2567386.04	587824.54	0.45
70.275	23°12'47.5482"	87°51'30.6069"	2567381.54	587844.08	0.38
70.295	23°12'47.3952"	87°51'31.2926"	2567376.95	587863.60	0.41

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
70.327	23°12'47.1511"	87°51'32.4081"	2567369.63	587895.35	0.43
70.359	23°12'46.9803"	87°51'33.4934"	2567364.56	587926.23	0.39
70.380	23°12'46.8934"	87°51'34.2372"	2567362.01	587947.39	0.41
70.400	23°12'46.8131"	87°51'34.9368"	2567359.66	587967.29	0.38
70.436	23°12'46.6667"	87°51'36.2059"	2567355.37	588003.39	0.40
70.456	23°12'46.5929"	87°51'36.9105"	2567353.22	588023.43	0.37
70.482	23°12'46.6271"	87°51'37.7990"	2567354.42	588048.68	0.40
70.519	23°12'46.6740"	87°51'39.0915"	2567356.08	588085.41	0.41
70.539	23°12'46.6973"	87°51'39.8181"	2567356.92	588106.06	0.41
70.560	23°12'46.7249"	87°51'40.5452"	2567357.89	588126.72	0.37
70.581	23°12'46.7502"	87°51'41.2718"	2567358.79	588147.37	0.33
70.615	23°12'46.7998"	87°51'42.4834"	2567360.52	588181.80	0.34
70.648	23°12'46.8694"	87°51'43.6533"	2567362.86	588215.04	0.36
70.670	23°12'46.9143"	87°51'44.4194"	2567364.37	588236.81	0.42
70.710	23°12'46.9980"	87°51'45.8314"	2567367.18	588276.93	0.40
70.748	23°12'47.0765"	87°51'47.1621"	2567369.82	588314.74	0.35
70.777	23°12'47.1383"	87°51'48.1701"	2567371.89	588343.38	0.38
70.810	23°12'47.1745"	87°51'49.3419"	2567373.20	588376.68	0.46

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
70.846	23°12'47.2144"	87°51'50.5935"	2567374.64	588412.25	0.40
70.866	23°12'47.2348"	87°51'51.3163"	2567375.39	588432.79	0.40
70.887	23°12'47.2609"	87°51'52.0211"	2567376.31	588452.82	0.38
70.922	23°12'47.3022"	87°51'53.2548"	2567377.79	588487.88	0.39
70.945	23°12'47.3265"	87°51'54.0923"	2567378.68	588511.68	0.36
70.973	23°12'47.3180"	87°51'55.0622"	2567378.58	588539.25	0.37
71.001	23°12'47.3120"	87°51'56.0317"	2567378.56	588566.81	0.40
71.038	23°12'47.2933"	87°51'57.3541"	2567378.21	588604.40	0.36
71.058	23°12'47.2849"	87°51'58.0597"	2567378.07	588624.46	0.35
71.098	23°12'47.2833"	87°51'59.4684"	2567378.26	588664.50	0.36
71.123	23°12'47.3214"	87°52'0.3499"	2567379.58	588689.55	0.43
71.144	23°12'47.3567"	87°52'1.0738"	2567380.79	588710.12	0.38
71.164	23°12'47.3872"	87°52'1.7899"	2567381.85	588730.47	0.35
71.203	23°12'48.1974"	87°52'03.1232"	2567406.99	588768.22	24.09
71.222	23°12'48.2373"	87°52'03.8387"	2567408.34	588788.55	23.98
71.242	23°12'48.2191"	87°52'04.5377"	2567407.90	588808.42	23.69
71.262	23°12'48.2100"	87°52'05.2539"	2567407.74	588828.78	23.75
71.282	23°12'48.1931"	87°52'05.9616"	2567407.34	588848.90	23.86

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
71.303	23°12'48.1842"	87°52'06.6778"	2567407.19	588869.26	23.64
71.323	23°12'48.1596"	87°52'07.3767"	2567406.55	588889.13	23.75
71.345	23°12'48.1426"	87°52'08.0845"	2567406.15	588909.25	23.87
71.365	23°12'48.1433"	87°52'08.7916"	2567406.29	588929.35	23.97
71.385	23°12'48.1830"	87°52'09.4979"	2567407.63	588949.42	24.05
71.405	23°12'48.2229"	87°52'10.2046"	2567408.98	588969.50	24.06
71.425	23°12'48.2626"	87°52'10.9110"	2567410.32	588989.57	23.98
71.445	23°12'48.3023"	87°52'11.6177"	2567411.66	589009.65	23.67
71.465	23°12'48.3198"	87°52'12.3253"	2567412.32	589029.76	23.78
71.485	23°12'48.3273"	87°52'13.0244"	2567412.67	589049.63	23.89
71.505	23°12'48.3584"	87°52'13.7489"	2567413.75	589070.22	23.54
71.525	23°12'48.3660"	87°52'14.4480"	2567414.10	589090.09	23.66
71.544	23°12'48.3812"	87°52'15.1556"	2567414.69	589110.20	23.77
71.564	23°12'48.3886"	87°52'15.8720"	2567415.04	589130.56	23.94
71.584	23°12'48.3692"	87°52'16.5712"	2567414.56	589150.44	24.06
71.604	23°12'48.3578"	87°52'17.2790"	2567414.33	589170.56	23.98
71.625	23°12'48.3464"	87°52'17.9864"	2567414.10	589190.67	23.68
71.645	23°12'48.3346"	87°52'18.6942"	2567413.86	589210.79	23.76

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
71.665	23°12'48.3310"	87°52'19.4105"	2567413.87	589231.15	23.54
71.685	23°12'48.3115"	87°52'20.1097"	2567413.39	589251.03	23.65
71.705	23°12'48.3001"	87°52'20.8175"	2567413.16	589271.15	23.77
71.727	23°12'48.2806"	87°52'21.5168"	2567412.68	589291.03	23.89
71.747	23°12'48.2919"	87°52'22.2324"	2567413.15	589311.37	23.98
71.768	23°12'48.3387"	87°52'22.9385"	2567414.71	589331.43	24.06
71.788	23°12'48.3859"	87°52'23.6445"	2567416.28	589351.49	24.05
71.808	23°12'48.4327"	87°52'24.3505"	2567417.84	589371.55	23.97
71.828	23°12'48.4795"	87°52'25.0566"	2567419.40	589391.61	23.97
71.848	23°12'48.5185"	87°52'25.7541"	2567420.72	589411.43	23.69
71.868	23°12'48.5734"	87°52'26.4686"	2567422.53	589431.73	23.75
71.888	23°12'48.6202"	87°52'27.1747"	2567424.09	589451.79	23.75
71.908	23°12'48.6670"	87°52'27.8807"	2567425.65	589471.85	23.87
71.929	23°12'48.7141"	87°52'28.5864"	2567427.22	589491.90	23.87
71.948	23°12'48.7532"	87°52'29.2839"	2567428.54	589511.72	23.59
71.967	23°12'48.8071"	87°52'29.9985"	2567430.32	589532.02	23.65
71.987	23°12'48.8129"	87°52'30.7063"	2567430.62	589552.14	23.77
72.008	23°12'48.8190"	87°52'31.4142"	2567430.93	589572.26	23.88

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
72.028	23°12'48.8252"	87°52'32.1221"	2567431.24	589592.38	23.98
72.048	23°12'48.8313"	87°52'32.8296"	2567431.55	589612.49	24.06
72.068	23°12'48.8452"	87°52'33.5460"	2567432.10	589632.85	23.64
72.088	23°12'48.8436"	87°52'34.2454"	2567432.17	589652.73	23.75
72.108	23°12'48.8497"	87°52'34.9533"	2567432.48	589672.85	23.87
72.128	23°12'48.8478"	87°52'35.6523"	2567432.54	589692.72	23.59
72.148	23°12'48.8617"	87°52'36.3687"	2567433.09	589713.08	23.65
72.169	23°12'48.8684"	87°52'37.0766"	2567433.42	589733.20	23.76
72.189	23°12'48.8901"	87°52'37.7930"	2567434.21	589753.56	23.94
72.209	23°12'48.8960"	87°52'38.4921"	2567434.51	589773.43	24.05
72.229	23°12'48.9099"	87°52'39.1997"	2567435.06	589793.54	23.96
72.249	23°12'48.9239"	87°52'39.9073"	2567435.61	589813.65	23.67
72.269	23°12'48.9297"	87°52'40.6063"	2567435.91	589833.52	23.79
72.290	23°12'48.9514"	87°52'41.3228"	2567436.70	589853.88	23.88
72.310	23°12'48.9653"	87°52'42.0303"	2567437.25	589873.99	23.55
72.330	23°12'48.9793"	87°52'42.7379"	2567437.80	589894.10	23.67
72.350	23°12'49.0000"	87°52'43.4456"	2567438.56	589914.21	23.77
72.370	23°12'49.0250"	87°52'44.1529"	2567439.45	589934.31	23.87

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
72.391	23°12'49.0503"	87°52'44.8602"	2567440.35	589954.41	23.97
72.411	23°12'49.0756"	87°52'45.5675"	2567441.25	589974.51	24.07
72.431	23°12'49.1010"	87°52'46.2748"	2567442.15	589994.61	23.97
72.451	23°12'49.1259"	87°52'46.9821"	2567443.04	590014.71	23.67
72.470	23°12'49.1512"	87°52'47.6894"	2567443.94	590034.81	23.77
72.490	23°12'49.1645"	87°52'48.4054"	2567444.47	590055.16	23.54
72.510	23°12'49.1541"	87°52'49.1047"	2567444.27	590075.04	23.66
72.530	23°12'49.1517"	87°52'49.8126"	2567444.32	590095.16	23.78
72.551	23°12'49.1571"	87°52'50.5289"	2567444.61	590115.52	23.84
72.571	23°12'49.1467"	87°52'51.2282"	2567444.41	590135.40	23.96
72.591	23°12'49.1521"	87°52'51.9445"	2567444.70	590155.76	23.94
72.611	23°12'49.1420"	87°52'52.6439"	2567444.51	590175.64	23.66
72.633	23°12'49.1397"	87°52'53.3517"	2567444.56	590195.76	23.78
72.653	23°12'49.1946"	87°52'54.0571"	2567446.37	590215.80	23.76
72.673	23°12'49.2495"	87°52'54.7625"	2567448.18	590235.84	23.86
72.693	23°12'49.3044"	87°52'55.4678"	2567449.99	590255.88	23.88
72.714	23°12'49.3670"	87°52'56.1817"	2567452.04	590276.16	23.54
72.734	23°12'49.4139"	87°52'56.8783"	2567453.60	590295.95	23.58

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
72.751	23°12'49.4688"	87°52'57.5837"	2567455.41	590315.99	23.56
72.771	23°12'49.5077"	87°52'58.2896"	2567456.73	590336.05	23.67
72.791	23°12'49.4872"	87°52'58.9886"	2567456.22	590355.92	23.79
72.812	23°12'49.4825"	87°52'59.7052"	2567456.20	590376.29	23.85
72.832	23°12'49.4698"	87°53'00.4126"	2567455.93	590396.40	23.97
72.852	23°12'49.4570"	87°53'01.1203"	2567455.66	590416.52	23.95
72.872	23°12'49.4446"	87°53'01.8281"	2567455.40	590436.64	23.66
72.893	23°12'49.4318"	87°53'02.5358"	2567455.13	590456.76	23.78
72.913	23°12'49.4227"	87°53'03.2436"	2567454.97	590476.88	23.88
72.933	23°12'49.4288"	87°53'03.9512"	2567455.28	590496.99	23.56
72.953	23°12'49.4426"	87°53'04.6675"	2567455.83	590517.35	23.74
72.973	23°12'49.4410"	87°53'05.3669"	2567455.90	590537.23	23.85
72.993	23°12'49.4471"	87°53'06.0748"	2567456.21	590557.35	23.97
73.013	23°12'49.4454"	87°53'06.7738"	2567456.28	590577.22	24.09
73.035	23°12'49.4592"	87°53'07.4902"	2567456.83	590597.58	23.95
73.055	23°12'49.4845"	87°53'08.1975"	2567457.73	590617.68	23.68
73.075	23°12'49.5112"	87°53'08.8957"	2567458.67	590637.52	23.79
73.095	23°12'49.5536"	87°53'09.6112"	2567460.10	590657.85	23.87

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
73.115	23°12'49.5883"	87°53'10.3179"	2567461.29	590677.93	23.56
73.136	23°12'49.6308"	87°53'11.0334"	2567462.72	590698.26	23.64
73.155	23°12'49.6574"	87°53'11.7315"	2567463.66	590718.10	23.67
73.176	23°12'49.6921"	87°53'12.4386"	2567464.85	590738.19	23.75
73.180	23°12'48.9486"	87°53'12.6475"	2567442.02	590744.27	0.37
73.202	23°12'48.9876"	87°53'13.4007"	2567443.35	590765.67	0.41
73.222	23°12'49.0297"	87°53'14.1208"	2567444.77	590786.13	0.37
73.259	23°12'49.0250"	87°53'15.4214"	2567444.85	590823.10	0.44
73.280	23°12'48.9619"	87°53'16.1626"	2567443.04	590844.18	0.41
73.304	23°12'48.8848"	87°53'16.9849"	2567440.81	590867.57	0.41
73.325	23°12'48.8205"	87°53'17.7254"	2567438.96	590888.63	0.38
73.357	23°12'48.8015"	87°53'18.8391"	2567438.57	590920.29	0.37
73.383	23°12'48.8399"	87°53'19.7474"	2567439.91	590946.10	0.40
73.404	23°12'48.8718"	87°53'20.4906"	2567441.02	590967.22	0.40
73.425	23°12'48.9034"	87°53'21.2335"	2567442.12	590988.33	0.39
73.454	23°12'48.8622"	87°53'22.2542"	2567441.03	591017.35	0.42
73.475	23°12'48.6919"	87°53'22.9750"	2567435.92	591037.87	0.37
73.512	23°12'48.3955"	87°53'24.2153"	2567427.02	591073.18	0.39

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
73.537	23°12'48.1914"	87°53'25.0551"	2567420.89	591097.09	0.38
73.558	23°12'48.0212"	87°53'25.7755"	2567415.78	591117.60	0.38
73.579	23°12'47.8548"	87°53'26.4974"	2567410.79	591138.15	0.44
73.600	23°12'47.7005"	87°53'27.2228"	2567406.17	591158.80	0.43
73.621	23°12'47.5290"	87°53'27.9429"	2567401.02	591179.30	0.40
73.661	23°12'47.0920"	87°53'29.2487"	2567387.81	591216.50	0.39
73.689	23°12'46.6984"	87°53'30.1397"	2567375.86	591241.90	0.37
73.710	23°12'46.4023"	87°53'30.8111"	2567366.87	591261.04	0.42
73.731	23°12'46.0938"	87°53'31.4761"	2567357.50	591280.00	0.41
73.772	23°12'45.4752"	87°53'32.7554"	2567338.70	591316.48	0.39
73.809	23°12'44.8454"	87°53'33.8393"	2567319.52	591347.41	0.44
73.830	23°12'44.4754"	87°53'34.4659"	2567308.25	591365.29	0.41
73.853	23°12'44.0766"	87°53'35.1721"	2567296.11	591385.44	0.45
73.889	23°12'43.4837"	87°53'36.2320"	2567278.06	591415.68	0.43
73.917	23°12'43.0488"	87°53'37.1051"	2567264.84	591440.58	0.41
73.938	23°12'42.7255"	87°53'37.7616"	2567255.01	591459.30	0.43
73.974	23°12'42.1685"	87°53'38.8924"	2567238.08	591491.55	0.46
73.996	23°12'41.8523"	87°53'39.5535"	2567228.47	591510.40	0.40

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
74.021	23°12'41.4582"	87°53'40.3565"	2567216.49	591533.30	0.42
74.043	23°12'41.1371"	87°53'41.0147"	2567206.73	591552.07	0.41
74.064	23°12'40.8215"	87°53'41.6754"	2567197.14	591570.91	0.41
74.088	23°12'40.4364"	87°53'42.4373"	2567185.43	591592.64	0.45
74.122	23°12'39.9098"	87°53'43.4916"	2567169.42	591622.71	0.42
74.149	23°12'39.4907"	87°53'44.3272"	2567156.68	591646.54	0.42
74.171	23°12'39.1567"	87°53'44.9776"	2567146.52	591665.09	0.37
74.193	23°12'38.8123"	87°53'45.6690"	2567136.05	591684.81	0.39
74.225	23°12'38.3112"	87°53'46.6444"	2567120.81	591712.63	0.38
74.249	23°12'37.9351"	87°53'47.4109"	2567109.38	591734.49	0.39
74.270	23°12'37.6043"	87°53'48.0631"	2567099.32	591753.09	0.37
74.310	23°12'37.0102"	87°53'49.3122"	2567081.27	591788.71	0.38
74.341	23°12'36.5706"	87°53'50.2753"	2567067.92	591816.17	0.45
74.362	23°12'36.2813"	87°53'50.9502"	2567059.14	591835.41	0.45
74.383	23°12'35.9764"	87°53'51.6166"	2567049.88	591854.41	0.42
74.404	23°12'35.6809"	87°53'52.2880"	2567040.91	591873.55	0.44
74.434	23°12'35.2626"	87°53'53.2175"	2567028.21	591900.05	0.43
74.455	23°12'34.9655"	87°53'53.8881"	2567019.19	591919.17	0.40

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
74.489	23°12'34.4535"	87°53'54.9492"	2567003.63	591949.43	0.43
74.510	23°12'34.0951"	87°53'55.5840"	2566992.72	591967.54	0.42
74.538	23°12'33.6074"	87°53'56.4247"	2566977.87	591991.53	0.45
74.560	23°12'33.2467"	87°53'57.0590"	2566966.89	592009.63	0.39
74.599	23°12'32.5632"	87°53'58.2533"	2566946.08	592043.71	0.42
74.632	23°12'32.0071"	87°53'59.2396"	2566929.15	592071.85	0.40
74.655	23°12'31.6620"	87°53'59.9310"	2566918.66	592091.57	0.44
74.682	23°12'31.2407"	87°54'0.7651"	2566905.85	592115.36	0.44
74.703	23°12'30.9144"	87°54'1.4197"	2566895.93	592134.03	0.42
74.724	23°12'30.5868"	87°54'2.0740"	2566885.97	592152.69	0.38
74.750	23°12'30.1819"	87°54'2.8709"	2566873.66	592175.42	0.38
74.789	23°12'29.5829"	87°54'4.0714"	2566855.45	592209.66	0.42
74.814	23°12'29.1823"	87°54'4.8708"	2566843.27	592232.46	0.46
74.836	23°12'28.8534"	87°54'5.5240"	2566833.27	592251.09	0.42
74.857	23°12'28.5277"	87°54'6.1793"	2566823.37	592269.78	0.41
74.898	23°12'27.8899"	87°54'7.4496"	2566803.98	592306.01	0.42
74.919	23°12'27.5681"	87°54'8.1085"	2566794.20	592324.80	0.41
74.940	23°12'27.2321"	87°54'8.7570"	2566783.98	592343.30	0.37

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
74.979	23°12'26.6243"	87°54'9.9522"	2566765.50	592377.39	0.40
75.012	23°12'26.1158"	87°54'10.9704"	2566750.04	592406.43	0.39
75.033	23°12'25.7784"	87°54'11.6189"	2566739.78	592424.93	0.39
75.061	23°12'25.3315"	87°54'12.4849"	2566726.19	592449.63	0.38
75.083	23°12'24.9881"	87°54'13.1766"	2566715.75	592469.36	0.39
75.105	23°12'24.6589"	87°54'13.8298"	2566705.74	592487.99	0.36
75.126	23°12'24.3205"	87°54'14.4773"	2566695.45	592506.46	0.34
75.147	23°12'24.0004"	87°54'15.1361"	2566685.72	592525.25	0.34
75.168	23°12'23.6633"	87°54'15.7836"	2566675.47	592543.72	0.37
75.207	23°12'23.0238"	87°54'16.9589"	2566656.01	592577.25	0.44
75.228	23°12'22.6657"	87°54'17.5943"	2566645.11	592595.38	0.39
75.250	23°12'22.2924"	87°54'18.2682"	2566633.75	592614.61	0.41
75.271	23°12'21.9451"	87°54'18.9100"	2566623.18	592632.92	0.39
75.297	23°12'21.5156"	87°54'19.6913"	2566610.11	592655.21	0.41
75.318	23°12'21.1701"	87°54'20.3345"	2566599.60	592673.56	0.41
75.344	23°12'20.7325"	87°54'21.1111"	2566586.28	592695.72	0.41
75.371	23°12'20.2878"	87°54'21.9313"	2566572.75	592719.12	0.41
75.392	23°12'19.9298"	87°54'22.5659"	2566561.85	592737.23	0.37

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
75.414	23°12'19.6144"	87°54'23.2269"	2566552.27	592756.08	0.41
75.436	23°12'19.2804"	87°54'23.9244"	2566542.12	592775.97	0.44
75.463	23°12'18.8639"	87°54'24.7613"	2566529.46	592799.84	0.46
75.493	23°12'18.4002"	87°54'25.7111"	2566515.37	592826.93	0.49
75.515	23°12'18.0817"	87°54'26.3700"	2566505.69	592845.72	0.47
75.542	23°12'17.6772"	87°54'27.2140"	2566493.40	592869.79	0.49
75.563	23°12'17.3440"	87°54'27.8647"	2566483.27	592888.35	0.46
75.585	23°12'17.0142"	87°54'28.5643"	2566473.25	592908.30	0.42
75.614	23°12'16.5758"	87°54'29.4823"	2566459.93	592934.48	0.46
75.636	23°12'16.2452"	87°54'30.1344"	2566449.88	592953.08	0.41
75.673	23°12'15.6121"	87°54'31.2660"	2566430.61	592985.37	0.40
75.703	23°12'15.1189"	87°54'32.1509"	2566415.60	593010.62	0.43
75.724	23°12'14.7624"	87°54'32.7870"	2566404.75	593028.77	0.39
75.745	23°12'14.4043"	87°54'33.4223"	2566393.85	593046.90	0.39
75.766	23°12'14.0478"	87°54'34.0584"	2566383.00	593065.05	0.43
75.787	23°12'13.6910"	87°54'34.6945"	2566372.14	593083.20	0.43
75.808	23°12'13.3352"	87°54'35.3309"	2566361.31	593101.36	0.38
75.829	23°12'12.9771"	87°54'35.9663"	2566350.41	593119.49	0.31

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
75.851	23°12'12.6206"	87°54'36.6023"	2566339.56	593137.64	0.30
75.872	23°12'12.2774"	87°54'37.2466"	2566329.12	593156.02	0.34
75.912	23°12'11.6783"	87°54'38.4935"	2566310.92	593191.58	0.35
75.933	23°12'11.3604"	87°54'39.1530"	2566301.26	593210.39	0.38
75.965	23°12'10.8829"	87°54'40.1425"	2566286.75	593238.61	0.35
75.988	23°12'10.5300"	87°54'40.8757"	2566276.03	593259.52	0.35
76.009	23°12'10.2137"	87°54'41.5359"	2566266.42	593278.35	0.35
76.036	23°12'9.8102"	87°54'42.3803"	2566254.16	593302.43	0.37
76.057	23°12'9.4644"	87°54'43.0235"	2566243.64	593320.78	0.39
76.097	23°12'8.8206"	87°54'44.2440"	2566224.06	593355.60	0.41
76.135	23°12'8.2118"	87°54'45.3912"	2566205.54	593388.33	0.44
76.156	23°12'7.8708"	87°54'46.0372"	2566195.17	593406.76	0.41
76.180	23°12'7.4898"	87°54'46.7533"	2566183.58	593427.19	0.43
76.201	23°12'7.1459"	87°54'47.3976"	2566173.12	593445.57	0.43
76.228	23°12'6.7106"	87°54'48.2234"	2566159.88	593469.13	0.44
76.249	23°12'6.3677"	87°54'48.8687"	2566149.45	593487.54	0.43
76.270	23°12'6.0349"	87°54'49.5193"	2566139.33	593506.10	0.41
76.292	23°12'5.6839"	87°54'50.2068"	2566128.66	593525.71	0.46

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
76.316	23°12'5.3120"	87°54'50.9285"	2566117.35	593546.30	0.47
76.336	23°12'4.9861"	87°54'51.5535"	2566107.44	593564.13	0.45
76.357	23°12'4.6627"	87°54'52.1990"	2566097.61	593582.54	0.38
76.378	23°12'4.3338"	87°54'52.8422"	2566087.61	593600.89	0.41
76.400	23°12'3.9888"	87°54'53.5171"	2566077.12	593620.14	0.41
76.434	23°12'3.4665"	87°54'54.5899"	2566061.25	593650.74	0.46
76.471	23°12'2.9142"	87°54'55.7284"	2566044.47	593683.21	0.45
76.503	23°12'2.4226"	87°54'56.7357"	2566029.53	593711.94	0.48
76.524	23°12'2.1066"	87°54'57.3861"	2566019.93	593730.49	0.46
76.550	23°12'1.7123"	87°54'58.1995"	2566007.95	593753.69	0.42
76.572	23°12'1.3767"	87°54'58.8800"	2565997.75	593773.10	0.44
76.598	23°12'0.9882"	87°54'59.6966"	2565985.95	593796.39	0.46
76.619	23°12'0.6707"	87°55'0.3459"	2565976.30	593814.91	0.45
76.640	23°12'0.3580"	87°55'0.9988"	2565966.80	593833.53	0.45
76.661	23°12'0.0466"	87°55'1.6401"	2565957.34	593851.82	0.44
76.681	23°11'59.7385"	87°55'2.2793"	2565947.98	593870.05	0.34
76.704	23°12'00.0652"	87°55'03.3695"	2565958.22	593900.98	23.6
76.723	23°11'59.7507"	87°55'03.9882"	2565948.66	593918.63	23.8

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
76.745	23°11'59.5716"	87°55'04.7623"	2565943.29	593940.67	23.29
76.765	23°11'59.2516"	87°55'05.3817"	2565933.56	593958.34	23.72
76.785	23°11'58.9235"	87°55'05.9926"	2565923.58	593975.77	23.53
76.805	23°11'58.5957"	87°55'06.6035"	2565913.61	593993.20	23.52
76.825	23°11'58.1427"	87°55'07.0655"	2565899.76	594006.42	23.4
76.847	23°11'57.9520"	87°55'07.8085"	2565894.03	594027.58	23.41
76.867	23°11'57.7064"	87°55'08.4917"	2565886.60	594047.05	23.42
76.887	23°11'57.4136"	87°55'09.1233"	2565877.71	594065.06	23.43
76.908	23°11'57.1290"	87°55'09.7633"	2565869.07	594083.31	23.44
76.928	23°11'56.8284"	87°55'10.3863"	2565859.94	594101.08	23.43
76.946	23°11'56.3871"	87°55'10.8547"	2565846.45	594114.48	23.4
76.967	23°11'56.2309"	87°55'11.6423"	2565841.79	594136.90	23.62
76.986	23°11'55.8735"	87°55'12.2125"	2565830.90	594153.18	23.41
77.007	23°11'55.6181"	87°55'12.8943"	2565823.17	594172.61	23.74
77.026	23°11'55.2529"	87°55'13.4556"	2565812.04	594188.64	23.41
77.045	23°11'54.8328"	87°55'13.9568"	2565799.21	594202.97	23.6
77.067	23°11'54.6789"	87°55'14.7501"	2565794.62	594225.55	23.73
77.085	23°11'54.3644"	87°55'15.3727"	2565785.06	594243.31	23.44

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
77.105	23°11'54.0095"	87°55'15.9623"	2565774.25	594260.14	23.52
77.124	23°11'53.5056"	87°55'16.3890"	2565758.83	594272.37	23.6
77.145	23°11'53.2679"	87°55'17.1075"	2565751.65	594292.84	23.61
77.166	23°11'52.9679"	87°55'17.7572"	2565742.54	594311.37	23.73
77.188	23°11'52.6515"	87°55'18.3706"	2565732.92	594328.87	23.49
77.209	23°11'52.3622"	87°55'19.0085"	2565724.14	594347.06	23.43
77.229	23°11'52.0652"	87°55'19.6376"	2565715.12	594365.00	23.32
77.249	23°11'51.7682"	87°55'20.2669"	2565706.10	594382.95	23.32
77.267	23°11'51.3146"	87°55'20.7243"	2565692.23	594396.04	23.6
77.288	23°11'51.1271"	87°55'21.4737"	2565686.60	594417.38	23.61
77.309	23°11'50.8782"	87°55'22.1590"	2565679.07	594436.91	23.44
77.328	23°11'50.5192"	87°55'22.7239"	2565668.13	594453.04	23.81
77.347	23°11'50.1052"	87°55'23.2290"	2565655.49	594467.48	23.7
77.369	23°11'49.9578"	87°55'24.0258"	2565651.10	594490.16	23.53
77.385	23°11'49.4934"	87°55'24.4771"	2565636.90	594503.08	23.3
77.405	23°11'49.1404"	87°55'25.0712"	2565626.15	594520.04	23.6
77.426	23°11'48.9437"	87°55'25.8371"	2565620.24	594541.85	23.62
77.454	23°11'48.5906"	87°55'26.4313"	2565609.49	594558.81	23.52

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
77.473	23°11'48.3347"	87°55'27.0475"	2565601.73	594576.38	23.61
77.493	23°11'48.1350"	87°55'27.7201"	2565595.71	594595.54	23.31
77.523	23°11'48.0526"	87°55'28.4558"	2565593.31	594616.47	23.83
77.550	23°11'48.0586"	87°55'29.1622"	2565593.62	594636.55	23.73
77.570	23°11'48.1309"	87°55'29.8567"	2565595.97	594656.28	23.63
77.592	23°11'48.3364"	87°55'30.5272"	2565602.41	594675.30	23.62
77.613	23°11'48.6138"	87°55'31.1763"	2565611.06	594693.70	23.84
77.633	23°11'48.8680"	87°55'31.7388"	2565618.98	594709.64	23.41
77.648	23°11'49.1127"	87°55'32.2062"	2565626.59	594722.88	23.5
77.673	23°11'49.6640"	87°55'32.8467"	2565643.66	594740.98	23.81
77.688	23°11'49.9966"	87°55'33.2461"	2565653.96	594752.27	23.5
77.715	23°11'50.6330"	87°55'33.8971"	2565673.65	594770.65	23.43
77.728	23°11'50.9560"	87°55'34.2050"	2565683.64	594779.34	23.5
77.754	23°11'51.5464"	87°55'34.8989"	2565701.92	594798.95	23.33
77.771	23°11'51.9149"	87°55'35.4822"	2565713.36	594815.46	23.83
77.791	23°11'52.2912"	87°55'36.0740"	2565725.04	594832.21	23.34
77.805	23°11'52.3639"	87°55'36.5479"	2565727.36	594845.67	23.7
77.818	23°11'52.5745"	87°55'37.2167"	2565733.96	594864.64	23.8

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
77.838	23°11'52.6297"	87°55'37.9076"	2565735.78	594884.27	23.5
77.863	23°11'52.7519"	87°55'38.7928"	2565739.70	594909.41	23.54
77.867	23°11'52.5397"	87°55'39.3214"	2565733.27	594924.48	23.4
77.889	23°11'52.3011"	87°55'40.0360"	2565726.06	594944.84	23.61
77.909	23°11'51.9606"	87°55'40.6387"	2565715.70	594962.04	23.81
77.929	23°11'51.6670"	87°55'41.2930"	2565706.79	594980.70	23.42
77.946	23°11'51.1408"	87°55'41.7038"	2565690.68	594992.48	23.7
77.967	23°11'50.8755"	87°55'42.4019"	2565682.65	595012.38	23.61
77.988	23°11'50.5473"	87°55'43.0318"	2565672.67	595030.35	23.73
78.011	23°11'50.1823"	87°55'43.6167"	2565661.55	595047.05	23.43
78.027	23°11'49.8036"	87°55'44.1917"	2565650.01	595063.47	23.83
78.047	23°11'49.4185"	87°55'44.7624"	2565638.27	595079.77	23.53
78.067	23°11'49.0337"	87°55'45.3331"	2565626.54	595096.07	23.43
78.090	23°11'48.6833"	87°55'45.9280"	2565615.87	595113.05	23.43
78.111	23°11'48.3616"	87°55'46.5466"	2565606.09	595130.70	23.84
78.131	23°11'48.0325"	87°55'47.1568"	2565596.08	595148.11	23.64
78.151	23°11'47.6953"	87°55'47.7584"	2565585.82	595165.28	23.63
78.169	23°11'47.2173"	87°55'48.2054"	2565571.20	595178.08	23.4

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
78.190	23°11'46.9903"	87°55'48.9274"	2565564.35	595198.65	23.41
78.211	23°11'46.7006"	87°55'49.5804"	2565555.56	595217.27	23.69
78.231	23°11'46.3327"	87°55'50.1480"	2565544.35	595233.48	23.31
78.251	23°11'46.0508"	87°55'50.8098"	2565535.80	595252.35	23.72
78.271	23°11'45.7298"	87°55'51.4285"	2565526.04	595270.00	23.54
78.291	23°11'45.3933"	87°55'52.0305"	2565515.80	595287.18	23.53
78.311	23°11'45.0176"	87°55'52.5893"	2565504.35	595303.14	23.71
78.331	23°11'44.7279"	87°55'53.2426"	2565495.56	595321.77	23.39
78.350	23°11'44.2506"	87°55'53.6899"	2565480.96	595334.58	23.8
78.372	23°11'44.0785"	87°55'54.4721"	2565475.81	595356.85	23.62
78.393	23°11'43.7574"	87°55'55.0911"	2565466.05	595374.51	23.64
78.413	23°11'43.4368"	87°55'55.7023"	2565456.30	595391.95	23.33
78.433	23°11'43.1261"	87°55'56.3238"	2565446.86	595409.68	23.43
78.453	23°11'42.8152"	87°55'56.9450"	2565437.41	595427.40	23.72
78.471	23°11'42.3478"	87°55'57.3944"	2565423.12	595440.27	23.5
78.493	23°11'42.1936"	87°55'58.1876"	2565418.52	595462.85	23.62
78.513	23°11'41.8904"	87°55'58.8173"	2565409.31	595480.81	23.74
78.530	23°11'41.3890"	87°55'59.2454"	2565393.97	595493.08	23.4

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
78.551	23°11'41.1403"	87°55'59.9528"	2565386.45	595513.24	23.41
78.571	23°11'40.8363"	87°56'00.6001"	2565377.22	595531.70	23.42
78.591	23°11'40.4778"	87°56'01.1875"	2565366.30	595548.47	23.49
78.610	23°11'39.9783"	87°56'01.6202"	2565351.02	595560.87	23.5
78.632	23°11'39.7429"	87°56'02.3400"	2565343.91	595581.38	23.61
78.652	23°11'39.4108"	87°56'02.9484"	2565333.81	595598.74	23.51
78.673	23°11'39.1260"	87°56'03.6084"	2565325.17	595617.56	23.73
78.693	23°11'38.7862"	87°56'04.2079"	2565314.83	595634.67	23.29
78.713	23°11'38.4619"	87°56'04.8251"	2565304.97	595652.28	23.63
78.732	23°11'38.0830"	87°56'05.3817"	2565293.42	595668.18	23.41
78.753	23°11'37.7510"	87°56'05.9901"	2565283.32	595685.54	23.31
78.772	23°11'37.4444"	87°56'06.6355"	2565274.01	595703.95	23.32
78.792	23°11'37.0865"	87°56'07.2261"	2565263.11	595720.81	23.52
78.812	23°11'36.7282"	87°56'07.8166"	2565252.20	595737.67	23.43
78.832	23°11'36.3231"	87°56'08.3559"	2565239.84	595753.08	23.71
78.852	23°11'35.9649"	87°56'08.9464"	2565228.93	595769.94	23.71
78.872	23°11'35.6615"	87°56'09.5972"	2565219.72	595788.50	23.64
78.891	23°11'35.1388"	87°56'10.0079"	2565203.72	595800.28	23.5

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
78.911	23°11'34.7809"	87°56'10.5985"	2565192.82	595817.14	23.3
78.934	23°11'34.5793"	87°56'11.3607"	2565186.76	595838.85	23.63
78.954	23°11'34.2514"	87°56'11.9715"	2565176.79	595856.28	23.63
78.973	23°11'33.7708"	87°56'12.4131"	2565162.09	595868.93	23.5
78.993	23°11'33.4466"	87°56'13.0265"	2565152.23	595886.43	23.6
79.013	23°11'33.1226"	87°56'13.6398"	2565142.38	595903.93	23.5
79.033	23°11'32.7990"	87°56'14.2534"	2565132.54	595921.44	23.6
79.055	23°11'32.6373"	87°56'15.0378"	2565127.71	595943.77	23.39
79.076	23°11'32.3347"	87°56'15.6681"	2565118.52	595961.75	23.52
79.096	23°11'32.0244"	87°56'16.2896"	2565109.09	595979.48	23.83
79.116	23°11'31.7140"	87°56'16.9111"	2565099.66	595997.21	23.52
79.136	23°11'31.4037"	87°56'17.5326"	2565090.23	596014.94	23.32
79.157	23°11'31.1044"	87°56'18.1605"	2565081.14	596032.85	23.62
79.177	23°11'30.8067"	87°56'18.7891"	2565072.10	596050.78	23.53
79.197	23°11'30.5009"	87°56'19.4092"	2565062.81	596068.47	23.49
79.217	23°11'30.2109"	87°56'20.0463"	2565054.01	596086.64	23.42
79.237	23°11'29.9132"	87°56'20.6752"	2565044.97	596104.58	23.73
79.257	23°11'29.6078"	87°56'21.2953"	2565035.69	596122.27	23.69

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
79.272	23°11'29.1216"	87°56'21.7355"	2565020.82	596134.88	23.5
79.293	23°11'28.9168"	87°56'22.4984"	2565014.66	596156.61	23.74
79.313	23°11'28.5401"	87°56'23.0723"	2565003.18	596173.00	23.32
79.331	23°11'28.1708"	87°56'23.6575"	2564991.93	596189.71	23.84
79.351	23°11'27.7520"	87°56'24.1977"	2564979.15	596205.15	23.52
79.371	23°11'27.2938"	87°56'24.6950"	2564965.15	596219.38	23.61
79.388	23°11'26.9063"	87°56'25.2737"	2564953.34	596235.91	23.44
79.409	23°11'26.4413"	87°56'25.7696"	2564939.13	596250.10	23.42
79.428	23°11'25.9172"	87°56'26.1930"	2564923.09	596262.24	23.41
79.439	23°11'25.3794"	87°56'26.5592"	2564906.62	596272.76	23.53
79.461	23°11'24.6385"	87°56'26.7025"	2564883.86	596276.98	23.6
79.479	23°11'24.2016"	87°56'27.1774"	2564870.51	596290.57	23.59
79.497	23°11'23.5975"	87°56'27.4325"	2564851.98	596297.94	23.32
79.517	23°11'22.9854"	87°56'27.6790"	2564833.20	596305.07	23.43
79.537	23°11'22.3736"	87°56'27.9255"	2564814.43	596312.20	23.52
79.560	23°11'21.5911"	87°56'27.9492"	2564790.37	596313.03	23.6
79.573	23°11'21.1173"	87°56'28.2790"	2564775.86	596322.50	23.64
79.594	23°11'20.4713"	87°56'28.4201"	2564756.02	596326.64	23.42

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
79.614	23°11'19.8375"	87°56'28.5887"	2564736.56	596331.56	23.73
79.636	23°11'19.2220"	87°56'28.8078"	2564717.67	596337.91	23.44
79.656	23°11'18.5987"	87°56'29.0180"	2564698.54	596344.01	23.54
79.676	23°11'17.9875"	87°56'29.2680"	2564679.79	596351.24	23.62
79.702	23°11'17.4273"	87°56'29.6313"	2564662.63	596361.68	23.43
79.723	23°11'16.8594"	87°56'29.9857"	2564645.23	596371.87	23.49
79.743	23°11'16.3070"	87°56'30.3575"	2564628.31	596382.55	23.72
79.768	23°11'15.8101"	87°56'30.8099"	2564613.11	596395.51	23.64
79.788	23°11'15.2707"	87°56'31.2236"	2564596.60	596407.38	23.61
79.808	23°11'14.7867"	87°56'31.6975"	2564581.80	596420.95	23.71
79.839	23°11'14.5319"	87°56'32.3753"	2564574.09	596440.27	23.63
79.859	23°11'14.2306"	87°56'33.0021"	2564564.94	596458.15	23.52
79.877	23°11'13.7801"	87°56'33.4654"	2564551.17	596471.41	23.4
79.899	23°11'13.5806"	87°56'34.2037"	2564545.17	596492.44	23.61
79.920	23°11'13.3339"	87°56'34.8903"	2564537.71	596512.01	23.54
79.940	23°11'13.0245"	87°56'35.5082"	2564528.31	596529.64	23.42
79.960	23°11'12.7152"	87°56'36.1265"	2564518.91	596547.28	23.69
79.979	23°11'12.3745"	87°56'36.7101"	2564508.54	596563.94	23.71

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
80.000	23°11'12.1281"	87°56'37.3967"	2564501.09	596583.51	23.64
80.022	23°11'11.8414"	87°56'38.0268"	2564492.39	596601.48	23.83
80.041	23°11'11.5303"	87°56'38.6211"	2564482.93	596618.44	23.61
80.062	23°11'11.3053"	87°56'39.3100"	2564476.14	596638.07	23.69
80.080	23°11'10.8921"	87°56'39.7929"	2564463.52	596651.88	23.5
80.100	23°11'10.7514"	87°56'40.5928"	2564459.34	596674.65	23.42
80.120	23°11'10.4290"	87°56'41.2032"	2564449.54	596692.07	23.69
80.140	23°11'10.1225"	87°56'41.8310"	2564440.23	596709.98	23.33
80.159	23°11'09.7611"	87°56'42.3983"	2564429.22	596726.18	23.41
80.180	23°11'09.4934"	87°56'43.0689"	2564421.11	596745.30	23.62
80.200	23°11'09.1869"	87°56'43.6967"	2564411.80	596763.21	23.34
80.219	23°11'08.8155"	87°56'44.2544"	2564400.48	596779.14	23.71
80.238	23°11'08.3891"	87°56'44.7520"	2564387.46	596793.37	23.6
80.260	23°11'08.2292"	87°56'45.5415"	2564382.69	596815.85	23.62
80.280	23°11'07.9127"	87°56'46.1594"	2564373.07	596833.48	23.83
80.300	23°11'07.5962"	87°56'46.7773"	2564363.45	596851.11	23.42
80.320	23°11'07.2325"	87°56'47.3435"	2564352.37	596867.28	23.51
80.338	23°11'06.8019"	87°56'47.8385"	2564339.22	596881.44	23.6

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
80.360	23°11'06.6411"	87°56'48.6312"	2564334.42	596904.01	23.54
80.380	23°11'06.3081"	87°56'49.2353"	2564324.29	596921.25	23.62
80.398	23°11'05.8264"	87°56'49.6761"	2564309.56	596933.88	23.5
80.420	23°11'05.6578"	87°56'50.4603"	2564304.52	596956.21	23.52
80.439	23°11'05.1837"	87°56'50.9097"	2564290.02	596969.08	23.4
80.461	23°11'05.0154"	87°56'51.6939"	2564284.99	596991.41	23.54
80.483	23°11'04.6972"	87°56'52.3107"	2564275.32	597009.01	23.54
80.500	23°11'04.2428"	87°56'52.7633"	2564261.43	597021.97	23.6
80.523	23°11'04.1099"	87°56'53.5679"	2564257.49	597044.87	23.63
80.540	23°11'03.6632"	87°56'54.0294"	2564243.84	597058.08	23.3
80.561	23°11'03.3733"	87°56'54.6622"	2564235.04	597076.13	23.3
80.582	23°11'03.1928"	87°56'55.4154"	2564229.63	597097.58	23.41
80.601	23°11'02.8011"	87°56'55.9367"	2564217.68	597112.48	23.4
80.622	23°11'02.6601"	87°56'56.7327"	2564213.49	597135.14	23.52
80.640	23°11'02.1882"	87°56'57.1796"	2564199.06	597147.94	23.5
80.662	23°11'02.0260"	87°56'57.9677"	2564194.22	597170.38	23.73
80.682	23°11'01.7076"	87°56'58.5842"	2564184.54	597187.97	23.33
80.702	23°11'01.3968"	87°56'59.2094"	2564175.10	597205.81	23.74

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
80.722	23°11'01.0783"	87°56'59.8259"	2564165.42	597223.40	23.54
80.742	23°11'0.7518"	87°57'00.4342"	2564155.49	597240.76	23.53
80.762	23°11'00.4333"	87°57'01.0506"	2564145.81	597258.35	23.73
80.782	23°11'00.1145"	87°57'01.6674"	2564136.12	597275.95	23.32
80.802	23°10'59.7960"	87°57'02.2838"	2564126.44	597293.54	23.72
80.822	23°10'59.4814"	87°57'02.9066"	2564116.88	597311.31	23.44
80.840	23°10'58.9907"	87°57'03.3382"	2564101.87	597323.68	23.7
80.860	23°10'58.6641"	87°57'03.9500"	2564091.94	597341.14	23.3
80.882	23°10'58.4945"	87°57'04.7335"	2564086.87	597363.45	23.83
80.902	23°10'58.1605"	87°57'05.3369"	2564076.71	597380.67	23.29
80.922	23°10'57.8420"	87°57'05.9572"	2564067.03	597398.37	23.73
80.938	23°10'56.7757"	87°57'5.9113"	2564034.23	597397.28	0.58
80.959	23°10'56.4185"	87°57'6.5450"	2564023.36	597415.37	0.36
80.979	23°10'56.0724"	87°57'7.1581"	2564012.83	597432.87	0.44
81.011	23°10'55.5388"	87°57'8.1272"	2563996.60	597460.53	0.43
81.033	23°10'55.1828"	87°57'8.8112"	2563985.78	597480.05	0.35
81.068	23°10'54.6284"	87°57'9.8758"	2563968.93	597510.43	0.40
81.091	23°10'54.2728"	87°57'10.5602"	2563958.12	597529.96	0.38

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
81.113	23°10'53.9168"	87°57'11.2443"	2563947.30	597549.48	0.53
81.140	23°10'53.4812"	87°57'12.0807"	2563934.06	597573.35	0.60
81.162	23°10'53.1256"	87°57'12.7648"	2563923.25	597592.87	0.43
81.185	23°10'52.7690"	87°57'13.4491"	2563912.41	597612.40	0.34
81.212	23°10'52.3340"	87°57'14.2853"	2563899.19	597636.26	0.54
81.234	23°10'51.9858"	87°57'14.9743"	2563888.61	597655.92	0.42
81.257	23°10'51.6409"	87°57'15.6651"	2563878.13	597675.63	0.40
81.279	23°10'51.2959"	87°57'16.3562"	2563867.65	597695.35	0.60
81.319	23°10'50.6762"	87°57'17.5804"	2563848.82	597730.28	0.55
81.341	23°10'50.3205"	87°57'18.2648"	2563838.01	597749.81	0.49
81.363	23°10'49.9639"	87°57'18.9488"	2563827.17	597769.33	0.47
81.403	23°10'49.3309"	87°57'20.1651"	2563807.93	597804.04	0.43
81.425	23°10'48.9753"	87°57'20.8495"	2563797.12	597823.57	0.61
81.460	23°10'48.4215"	87°57'21.9141"	2563780.29	597853.95	0.59
81.482	23°10'48.0652"	87°57'22.5981"	2563769.46	597873.47	0.46
81.507	23°10'47.6698"	87°57'23.3581"	2563757.44	597895.16	0.49
81.547	23°10'47.0546"	87°57'24.5851"	2563738.75	597930.17	0.63
81.569	23°10'46.7096"	87°57'25.2766"	2563728.27	597949.90	0.57

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
81.604	23°10'46.1565"	87°57'26.3408"	2563711.46	597980.27	0.59
81.626	23°10'45.8002"	87°57'27.0256"	2563700.63	597999.81	0.57
81.651	23°10'45.3940"	87°57'27.7785"	2563688.28	598021.30	0.60
81.676	23°10'45.0063"	87°57'28.5439"	2563676.50	598043.14	0.65
81.701	23°10'44.6229"	87°57'29.3114"	2563664.85	598065.04	0.67
81.723	23°10'44.2779"	87°57'30.0022"	2563654.37	598084.75	0.64
81.745	23°10'43.9394"	87°57'30.6965"	2563644.09	598104.56	0.57
81.768	23°10'43.5957"	87°57'31.3887"	2563633.65	598124.31	0.49
81.790	23°10'43.2507"	87°57'32.0791"	2563623.17	598144.01	0.41
81.812	23°10'42.9057"	87°57'32.7699"	2563612.69	598163.72	0.37
81.835	23°10'42.5604"	87°57'33.4610"	2563602.20	598183.44	0.46
81.867	23°10'42.0627"	87°57'34.4588"	2563587.08	598211.91	0.56
81.889	23°10'41.7177"	87°57'35.1495"	2563576.60	598231.62	0.44
81.914	23°10'41.3342"	87°57'35.9167"	2563564.95	598253.51	0.50
81.936	23°10'40.9892"	87°57'36.6078"	2563554.47	598273.23	0.58
81.969	23°10'40.4905"	87°57'37.6059"	2563539.32	598301.71	0.58
81.991	23°10'40.1711"	87°57'38.3106"	2563529.63	598321.81	0.57
82.021	23°10'39.7119"	87°57'39.2320"	2563515.68	598348.10	0.60

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
82.043	23°10'39.3556"	87°57'39.9160"	2563504.85	598367.62	0.46
82.065	23°10'38.9996"	87°57'40.6007"	2563494.03	598387.16	0.40
82.093	23°10'38.5646"	87°57'41.4364"	2563480.81	598411.01	0.39
82.115	23°10'38.2135"	87°57'42.1239"	2563470.14	598430.63	0.35
82.137	23°10'37.8685"	87°57'42.8150"	2563459.66	598450.35	0.38
82.160	23°10'37.5235"	87°57'43.5054"	2563449.18	598470.05	0.45
82.182	23°10'37.1785"	87°57'44.1962"	2563438.70	598489.76	0.56
82.204	23°10'36.8234"	87°57'44.8816"	2563427.91	598509.32	0.66
82.232	23°10'36.3885"	87°57'45.7173"	2563414.69	598533.17	0.64
82.254	23°10'36.0379"	87°57'46.4048"	2563404.04	598552.79	0.57
82.276	23°10'35.7059"	87°57'47.1031"	2563393.96	598572.71	0.68
82.298	23°10'35.3839"	87°57'47.8063"	2563384.19	598592.77	0.70
82.321	23°10'35.0610"	87°57'48.5102"	2563374.39	598612.85	0.69
82.346	23°10'34.7027"	87°57'49.2912"	2563363.52	598635.13	0.67
82.368	23°10'34.3704"	87°57'49.9898"	2563353.43	598655.06	0.64
82.408	23°10'33.8053"	87°57'51.2442"	2563336.29	598690.84	0.46
82.430	23°10'33.4730"	87°57'51.9420"	2563326.20	598710.75	0.26
82.452	23°10'33.1487"	87°57'52.6449"	2563316.36	598730.80	0.24

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
82.475	23°10'32.8381"	87°57'53.3545"	2563306.94	598751.04	0.24
82.497	23°10'32.5105"	87°57'54.0549"	2563297.00	598771.02	0.30
82.519	23°10'32.1769"	87°57'54.7520"	2563286.87	598790.91	0.40
82.542	23°10'31.8426"	87°57'55.4492"	2563276.72	598810.80	0.62
82.566	23°10'31.4749"	87°57'56.2255"	2563265.56	598832.95	0.63
82.589	23°10'31.1413"	87°57'56.9227"	2563255.43	598852.84	0.54
82.611	23°10'30.9256"	87°57'57.6710"	2563248.94	598874.16	0.32
82.633	23°10'30.7188"	87°57'58.4235"	2563242.72	598895.60	0.24
82.656	23°10'30.5203"	87°57'59.1790"	2563236.76	598917.12	0.24
82.678	23°10'30.3219"	87°57'59.9337"	2563230.80	598938.62	0.24
82.700	23°10'30.1274"	87°58'0.6902"	2563224.96	598960.17	0.24
82.725	23°10'29.9030"	87°58'1.5285"	2563218.22	598984.05	0.29
82.747	23°10'29.6984"	87°58'2.2814"	2563212.07	599005.50	0.44
82.782	23°10'29.3801"	87°58'3.4535"	2563202.50	599038.89	0.36
82.805	23°10'29.2131"	87°58'4.2169"	2563197.51	599060.63	0.24
82.827	23°10'29.0825"	87°58'4.9893"	2563193.64	599082.62	0.24
82.849	23°10'28.9581"	87°58'5.7625"	2563189.96	599104.63	0.28
82.871	23°10'28.8275"	87°58'6.5346"	2563186.09	599126.61	0.50

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
82.906	23°10'28.6020"	87°58'7.7313"	2563179.38	599160.68	0.65
82.929	23°10'28.4350"	87°58'8.4957"	2563174.39	599182.45	0.55
82.951	23°10'28.2791"	87°58'9.2624"	2563169.74	599204.28	0.41
82.978	23°10'28.0890"	87°58'10.1997"	2563164.07	599230.97	0.51
83.018	23°10'27.8107"	87°58'11.5630"	2563155.77	599269.79	0.71
83.040	23°10'27.6461"	87°58'12.3095"	2563150.85	599291.05	0.54
83.061	23°10'27.4966"	87°58'13.0358"	2563146.39	599311.73	0.30
83.081	23°10'27.3554"	87°58'13.7332"	2563142.18	599331.59	0.47
83.117	23°10'27.1017"	87°58'14.9514"	2563134.61	599366.28	0.68
83.137	23°10'26.9663"	87°58'15.6704"	2563130.58	599386.75	0.46
83.173	23°10'26.6980"	87°58'16.8864"	2563122.56	599421.38	0.65
83.194	23°10'26.5408"	87°58'17.6010"	2563117.86	599441.73	0.65
83.215	23°10'26.3835"	87°58'18.3155"	2563113.16	599462.08	0.58
83.236	23°10'26.2266"	87°58'19.0301"	2563108.47	599482.43	0.61
83.257	23°10'26.0694"	87°58'19.7447"	2563103.77	599502.78	0.29
83.277	23°10'25.9121"	87°58'20.4593"	2563099.07	599523.13	0.26
83.315	23°10'25.6294"	87°58'21.7458"	2563090.62	599559.77	0.39
83.336	23°10'25.4722"	87°58'22.4604"	2563085.92	599580.12	0.29

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
83.367	23°10'25.2363"	87°58'23.5325"	2563078.87	599610.65	0.35
83.388	23°10'25.0794"	87°58'24.2470"	2563074.18	599631.00	0.65
83.409	23°10'24.9092"	87°58'24.9583"	2563069.08	599651.26	0.61
83.430	23°10'24.7208"	87°58'25.6639"	2563063.42	599671.36	0.45
83.453	23°10'24.5225"	87°58'26.4432"	2563057.47	599693.56	0.65
83.474	23°10'24.3366"	87°58'27.1499"	2563051.89	599713.69	0.53
83.495	23°10'24.1411"	87°58'27.8532"	2563046.01	599733.73	0.51
83.516	23°10'23.9657"	87°58'28.5631"	2563040.75	599753.95	0.47
83.536	23°10'23.7750"	87°58'29.2679"	2563035.02	599774.03	0.44
83.557	23°10'23.5830"	87°58'29.9724"	2563029.25	599794.10	0.51
83.578	23°10'23.3917"	87°58'30.6776"	2563023.50	599814.19	0.57
83.599	23°10'23.2003"	87°58'31.3824"	2563017.75	599834.27	0.68
83.633	23°10'22.8935"	87°58'32.5098"	2563008.53	599866.39	0.73
83.653	23°10'22.7064"	87°58'33.2161"	2563002.91	599886.51	0.65
83.674	23°10'22.5459"	87°58'33.9299"	2562998.11	599906.84	0.50
83.695	23°10'22.3890"	87°58'34.6459"	2562993.42	599927.23	0.27
83.716	23°10'22.2269"	87°58'35.3594"	2562988.57	599947.55	0.45
83.737	23°10'22.0582"	87°58'36.0707"	2562983.52	599967.81	0.59

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
83.766	23°10'21.8439"	87°58'37.0729"	2562977.12	599996.35	0.70
83.787	23°10'21.6987"	87°58'37.7903"	2562972.79	600016.78	0.68
83.827	23°10'21.4041"	87°58'39.1482"	2562963.99	600055.45	0.67
83.848	23°10'21.2472"	87°58'39.8628"	2562959.30	600075.80	0.73
83.871	23°10'21.0654"	87°58'40.6454"	2562953.86	600098.09	0.73
83.894	23°10'20.8794"	87°58'41.4294"	2562948.29	600120.42	0.76
83.915	23°10'20.7108"	87°58'42.1410"	2562943.24	600140.69	0.68
83.935	23°10'20.5321"	87°58'42.8498"	2562937.88	600160.88	0.56
83.956	23°10'20.3635"	87°58'43.5611"	2562932.83	600181.14	0.42
83.977	23°10'20.1942"	87°58'44.2728"	2562927.76	600201.41	0.36
83.998	23°10'20.0262"	87°58'44.9834"	2562922.73	600221.65	0.63
84.021	23°10'19.8402"	87°58'45.7670"	2562917.16	600243.97	0.67
84.052	23°10'19.5835"	87°58'46.8336"	2562909.47	600274.35	0.44
84.073	23°10'19.4035"	87°58'47.5416"	2562904.07	600294.52	0.25
84.094	23°10'19.2229"	87°58'48.2504"	2562898.65	600314.71	0.36
84.128	23°10'18.9443"	87°58'49.3861"	2562890.30	600347.06	0.55
84.151	23°10'18.7463"	87°58'50.1654"	2562884.36	600369.26	0.66
84.171	23°10'18.5663"	87°58'50.8735"	2562878.96	600389.43	0.46

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
84.209	23°10'18.2417"	87°58'52.1484"	2562869.22	600425.75	0.44
84.230	23°10'18.0617"	87°58'52.8572"	2562863.82	600445.94	0.58
84.270	23°10'17.7193"	87°58'54.2027"	2562853.55	600484.27	0.51
84.293	23°10'17.5213"	87°58'54.9817"	2562847.61	600506.46	0.49
84.313	23°10'17.3423"	87°58'55.6901"	2562842.24	600526.64	0.45
84.334	23°10'17.1730"	87°58'56.4018"	2562837.17	600546.91	0.43
84.357	23°10'16.9812"	87°58'57.1829"	2562831.42	600569.16	0.42
84.378	23°10'16.7911"	87°58'57.8880"	2562825.71	600589.25	0.37
84.399	23°10'16.5997"	87°58'58.5932"	2562819.96	600609.34	0.46
84.420	23°10'16.4184"	87°58'59.3009"	2562814.52	600629.50	0.59
84.447	23°10'16.2464"	87°59'0.2358"	2562809.41	600656.12	0.42
84.472	23°10'16.1567"	87°59'1.1116"	2562806.82	600681.04	0.42
84.504	23°10'16.0215"	87°59'2.2033"	2562802.87	600712.11	0.54
84.524	23°10'15.9139"	87°59'2.9284"	2562799.70	600732.75	0.41
84.545	23°10'15.8277"	87°59'3.6575"	2562797.19	600753.50	0.42
84.566	23°10'15.7165"	87°59'4.3823"	2562793.91	600774.13	0.38
84.587	23°10'15.6037"	87°59'5.1066"	2562790.58	600794.75	0.54
84.610	23°10'15.4690"	87°59'5.9015"	2562786.59	600817.38	0.44

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
84.631	23°10'15.3464"	87°59'6.6241"	2562782.96	600837.95	0.61
84.656	23°10'15.2109"	87°59'7.4931"	2562778.96	600862.69	0.67
84.683	23°10'15.0730"	87°59'8.4361"	2562774.90	600889.53	0.58
84.704	23°10'14.9391"	87°59'9.1561"	2562770.92	600910.03	0.38
84.725	23°10'14.8143"	87°59'9.8782"	2562767.22	600930.59	0.56
84.746	23°10'14.7066"	87°59'10.6037"	2562764.05	600951.24	0.31
84.775	23°10'14.5536"	87°59'11.6182"	2562759.54	600980.12	0.34
84.796	23°10'14.4661"	87°59'12.3467"	2562756.99	601000.85	0.32
84.817	23°10'14.3774"	87°59'13.0751"	2562754.40	601021.58	0.56
84.844	23°10'14.2346"	87°59'14.0176"	2562750.19	601048.41	0.74
84.865	23°10'14.1354"	87°59'14.7442"	2562747.28	601069.09	0.70
84.892	23°10'14.0072"	87°59'15.6882"	2562743.52	601095.96	0.73
84.913	23°10'13.9074"	87°59'16.4158"	2562740.59	601116.67	0.68
84.948	23°10'13.7263"	87°59'17.6489"	2562735.26	601151.77	0.68
84.969	23°10'13.6011"	87°59'18.3714"	2562731.55	601172.34	0.67
84.990	23°10'13.4672"	87°59'19.0914"	2562727.57	601192.84	0.72
85.011	23°10'13.3407"	87°59'19.8132"	2562723.82	601213.39	0.67
85.047	23°10'13.1197"	87°59'21.0390"	2562717.26	601248.29	0.71

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
85.067	23°10'12.9939"	87°59'21.7608"	2562713.53	601268.84	0.66
85.088	23°10'12.8600"	87°59'22.4808"	2562709.55	601289.34	0.54
85.124	23°10'12.6409"	87°59'23.7072"	2562703.05	601324.26	0.63
85.164	23°10'12.4040"	87°59'25.0788"	2562696.03	601363.31	0.49
85.187	23°10'12.2566"	87°59'25.8712"	2562691.65	601385.87	0.39
85.207	23°10'12.1220"	87°59'26.5915"	2562687.65	601406.38	0.37
85.241	23°10'11.9080"	87°59'27.7435"	2562681.29	601439.18	0.35
85.262	23°10'11.7734"	87°59'28.4634"	2562677.29	601459.68	0.43
85.283	23°10'11.6391"	87°59'29.1837"	2562673.30	601480.19	0.65
85.306	23°10'11.4943"	87°59'29.9764"	2562669.00	601502.76	0.71
85.326	23°10'11.3678"	87°59'30.6979"	2562665.25	601523.30	0.65
85.347	23°10'11.2335"	87°59'31.4182"	2562661.26	601543.81	0.41
85.368	23°10'11.0986"	87°59'32.1385"	2562657.25	601564.32	0.61
85.389	23°10'10.9526"	87°59'32.8559"	2562652.90	601584.75	0.52
85.410	23°10'10.8077"	87°59'33.5730"	2562648.58	601605.17	0.60
85.437	23°10'10.6535"	87°59'34.5130"	2562644.02	601631.93	0.51
85.475	23°10'10.4647"	87°59'35.8199"	2562638.47	601669.13	0.53
85.496	23°10'10.3655"	87°59'36.5464"	2562635.56	601689.81	0.58

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
85.523	23°10'10.2308"	87°59'37.4904"	2562631.60	601716.68	0.65
85.544	23°10'10.1202"	87°59'38.2151"	2562628.34	601737.31	0.42
85.565	23°10'9.9921"	87°59'38.9355"	2562624.54	601757.82	0.41
85.585	23°10'9.7890"	87°59'39.6367"	2562618.43	601777.80	0.55
85.608	23°10'9.5660"	87°59'40.4077"	2562611.72	601799.77	0.72
85.629	23°10'9.3632"	87°59'41.1078"	2562605.62	601819.72	0.69
85.650	23°10'9.1552"	87°59'41.8082"	2562599.36	601839.68	0.48
85.671	23°10'8.9567"	87°59'42.5087"	2562593.39	601859.64	0.38
85.694	23°10'8.7713"	87°59'43.2920"	2562587.84	601881.95	0.43
85.715	23°10'8.6081"	87°59'44.0047"	2562582.96	601902.25	0.51
85.755	23°10'8.3004"	87°59'45.3599"	2562573.76	601940.85	0.59
85.776	23°10'8.0069"	87°59'46.0083"	2562564.86	601959.35	0.47
85.797	23°10'7.5666"	87°59'46.5681"	2562551.43	601975.36	0.32
85.818	23°10'7.1267"	87°59'47.1276"	2562538.01	601991.36	0.39
85.843	23°10'6.5928"	87°59'47.7936"	2562521.72	602010.41	0.41
85.868	23°10'6.0470"	87°59'48.4482"	2562505.06	602029.14	0.47
85.889	23°10'5.6035"	87°59'49.0041"	2562491.53	602045.04	0.58
85.914	23°10'5.2039"	87°59'49.7671"	2562479.39	602066.82	0.61

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
85.937	23°10'4.8956"	87°59'50.5016"	2562470.05	602087.77	0.65
85.958	23°10'4.6146"	87°59'51.1720"	2562461.54	602106.89	0.57
85.978	23°10'4.3346"	87°59'51.8409"	2562453.06	602125.97	0.50
85.999	23°10'4.1046"	87°59'52.5306"	2562446.12	602145.63	0.34
86.020	23°10'3.9128"	87°59'53.2357"	2562440.36	602165.72	0.26
86.056	23°10'3.5876"	87°59'54.4332"	2562430.59	602199.84	0.32
86.081	23°10'3.3299"	87°59'55.2690"	2562422.83	602223.66	0.30
86.102	23°10'3.0927"	87°59'55.9580"	2562415.67	602243.30	0.41
86.125	23°10'2.8245"	87°59'56.7318"	2562407.57	602265.36	0.48
86.149	23°10'2.5448"	87°59'57.5038"	2562399.12	602287.37	0.36
86.169	23°10'2.2731"	87°59'58.1453"	2562390.89	602305.67	0.24
86.190	23°10'1.9503"	87°59'58.7971"	2562381.09	602324.27	0.21
86.220	23°10'02.3094"	88°00'00.2205"	2562392.41	602364.67	19.49
86.241	23°10'01.9965"	88°00'00.8509"	2562382.91	602382.66	19.63
86.261	23°10'01.6836"	88°00'01.4773"	2562373.41	602400.54	19.92
86.281	23°10'01.3245"	88°00'02.0525"	2562362.48	602416.97	20.01
86.299	23°10'00.8951"	88°00'02.5508"	2562349.37	602431.23	19.9
86.322	23°10'00.7472"	88°00'03.3578"	2562344.98	602454.21	19.73

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
86.335	23°10'00.3757"	88°00'03.9403"	2562333.67	602470.85	19.83
86.356	23°09'59.9447"	88°00'04.4787"	2562320.52	602486.25	19.83
86.376	23°09'59.4669"	88°00'04.9650"	2562305.92	602500.18	19.61
86.406	23°09'59.0359"	88°00'05.5034"	2562292.77	602515.58	19.61
86.427	23°09'58.8644"	88°00'06.2311"	2562287.64	602536.31	19.64
86.448	23°09'58.6410"	88°00'06.9008"	2562280.90	602555.40	19.74
86.468	23°09'58.4099"	88°00'07.5620"	2562273.92	602574.25	19.83
86.493	23°09'58.1868"	88°00'08.2321"	2562267.19	602593.35	19.93
86.514	23°09'58.1253"	88°00'08.9441"	2562265.44	602613.61	19.94
86.534	23°09'58.0113"	88°00'09.6382"	2562262.07	602633.37	19.95
86.554	23°09'57.9128"	88°00'10.3492"	2562259.18	602653.61	19.94
86.574	23°09'57.7988"	88°00'11.0433"	2562255.81	602673.37	19.93
86.594	23°09'57.6929"	88°00'11.7459"	2562252.69	602693.37	19.93
86.616	23°09'57.5944"	88°00'12.4573"	2562249.80	602713.62	19.94
86.636	23°09'57.4976"	88°00'13.1539"	2562246.96	602733.45	20.03
86.656	23°09'57.4134"	88°00'13.8602"	2562244.51	602753.55	19.93
86.676	23°09'57.3290"	88°00'14.5660"	2562242.05	602773.64	19.62
86.695	23°09'57.1980"	88°00'15.2206"	2562238.15	602792.28	19.71

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
86.717	23°09'57.1606"	88°00'15.9785"	2562237.15	602813.84	19.82
86.736	23°09'57.0293"	88°00'16.6331"	2562233.24	602832.48	19.51
86.753	23°09'56.8357"	88°00'17.2189"	2562227.40	602849.18	19.6
86.773	23°09'56.7515"	88°00'17.9252"	2562224.95	602869.28	19.7
86.797	23°09'56.8159"	88°00'18.7943"	2562227.10	602893.98	19.79
86.813	23°09'56.5751"	88°00'19.3285"	2562219.80	602909.22	19.9
86.837	23°09'56.6429"	88°00'20.2131"	2562222.06	602934.36	19.93
86.845	23°9'55.7281"	88°0'20.3374"	2562193.95	602938.09	0.61
86.866	23°9'55.6384"	88°0'21.0468"	2562191.33	602958.28	0.31
86.886	23°9'55.5532"	88°0'21.7572"	2562188.85	602978.50	0.57
86.910	23°9'55.4231"	88°0'22.5714"	2562185.01	603001.68	0.70
86.930	23°9'55.2931"	88°0'23.2735"	2562181.15	603021.67	0.65
86.967	23°9'55.0927"	88°0'24.5633"	2562175.24	603058.39	0.66
86.988	23°9'54.9902"	88°0'25.2898"	2562172.23	603079.07	0.62
87.009	23°9'54.8909"	88°0'26.0167"	2562169.32	603099.76	0.36
87.030	23°9'54.8069"	88°0'26.7451"	2562166.88	603120.49	0.12
87.051	23°9'54.7350"	88°0'27.4746"	2562164.81	603141.25	0.08
87.089	23°9'54.6288"	88°0'28.8274"	2562161.81	603179.74	0.11

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
87.110	23°9'54.4977"	88°0'29.5481"	2562157.92	603200.26	0.08
87.139	23°9'54.2615"	88°0'30.5240"	2562150.85	603228.06	0.10
87.160	23°9'54.1285"	88°0'31.2435"	2562146.90	603248.55	0.09
87.181	23°9'53.9828"	88°0'31.9613"	2562142.56	603268.99	0.11
87.204	23°9'53.8173"	88°0'32.7685"	2562137.63	603291.98	0.17
87.228	23°9'53.6411"	88°0'33.5722"	2562132.37	603314.87	0.23
87.251	23°9'53.5208"	88°0'34.3882"	2562128.83	603338.10	0.26
87.272	23°9'53.4212"	88°0'35.1147"	2562125.91	603358.78	0.31
87.293	23°9'53.3287"	88°0'35.8427"	2562123.21	603379.50	0.42
87.327	23°9'53.2554"	88°0'37.0336"	2562121.19	603413.38	0.57
87.348	23°9'53.1655"	88°0'37.7613"	2562118.57	603434.09	0.43
87.369	23°9'53.0659"	88°0'38.4881"	2562115.65	603454.78	0.58
87.405	23°9'52.8305"	88°0'39.7454"	2562108.66	603490.58	0.54
87.426	23°9'52.7355"	88°0'40.4691"	2562105.88	603511.18	0.53
87.447	23°9'52.7067"	88°0'41.2032"	2562105.14	603532.06	0.43
87.468	23°9'52.6559"	88°0'41.9350"	2562103.72	603552.88	0.56
87.504	23°9'52.5114"	88°0'43.2076"	2562099.53	603589.10	0.58
87.528	23°9'52.4746"	88°0'44.0327"	2562098.56	603612.57	0.72

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
87.549	23°9'52.4305"	88°0'44.7660"	2562097.35	603633.43	0.65
87.570	23°9'52.3979"	88°0'45.4990"	2562096.49	603654.28	0.51
87.590	23°9'52.3457"	88°0'46.2315"	2562095.03	603675.12	0.70
87.630	23°9'52.2182"	88°0'47.5992"	2562091.38	603714.04	0.75
87.650	23°9'52.0728"	88°0'48.3166"	2562087.05	603734.47	0.68
87.671	23°9'52.0008"	88°0'49.0468"	2562084.98	603755.25	0.60
87.692	23°9'51.8765"	88°0'49.7668"	2562081.30	603775.75	0.63
87.713	23°9'51.6957"	88°0'50.4755"	2562075.88	603795.94	0.68
87.734	23°9'51.5548"	88°0'51.1932"	2562071.69	603816.38	0.69
87.773	23°9'51.3364"	88°0'52.5498"	2562065.24	603855.00	0.55
87.794	23°9'51.2153"	88°0'53.2726"	2562061.66	603875.58	0.42
87.815	23°9'51.1144"	88°0'53.9991"	2562058.70	603896.26	0.40
87.841	23°9'50.9817"	88°0'54.9061"	2562054.80	603922.08	0.41
87.862	23°9'50.9149"	88°0'55.6371"	2562052.89	603942.88	0.41
87.883	23°9'50.8656"	88°0'56.3692"	2562051.52	603963.71	0.38
87.904	23°9'50.8726"	88°0'57.1036"	2562051.88	603984.59	0.37
87.925	23°9'50.8887"	88°0'57.8380"	2562052.52	604005.47	0.36
87.953	23°9'50.8792"	88°0'58.8451"	2562052.43	604034.11	0.39

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
87.974	23°9'50.7569"	88°0'59.5672"	2562048.81	604054.67	0.38
87.995	23°9'50.6416"	88°1'0.2915"	2562045.41	604075.29	0.38
88.016	23°9'50.4862"	88°1'1.0056"	2562040.77	604095.63	0.37
88.037	23°9'50.3589"	88°1'1.7231"	2562037.00	604116.06	0.37
88.058	23°9'50.3340"	88°1'2.4569"	2562036.38	604136.93	0.41
88.087	23°9'50.3581"	88°1'3.4667"	2562037.32	604165.64	0.38
88.108	23°9'50.3572"	88°1'4.2010"	2562037.44	604186.52	0.49
88.144	23°9'50.5937"	88°1'5.4551"	2562044.96	604222.13	0.47
88.165	23°9'50.8595"	88°1'6.1305"	2562053.27	604241.28	0.43
88.186	23°9'51.1420"	88°1'6.7959"	2562062.09	604260.14	0.39
88.207	23°9'51.5476"	88°1'7.3845"	2562074.68	604276.79	0.47
88.246	23°9'51.8952"	88°1'8.6830"	2562085.63	604313.64	0.43
88.267	23°9'51.9819"	88°1'9.4110"	2562088.44	604334.32	0.34
88.288	23°9'52.0887"	88°1'10.1359"	2562091.87	604354.91	0.46
88.314	23°9'52.3859"	88°1'10.9930"	2562101.18	604379.22	0.53
88.335	23°9'52.6925"	88°1'11.6487"	2562110.74	604397.80	0.48
88.356	23°9'52.9290"	88°1'12.3367"	2562118.15	604417.31	0.45
88.392	23°9'53.4457"	88°1'13.4926"	2562134.27	604450.07	0.45

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
88.413	23°9'53.6978"	88°1'14.1747"	2562142.16	604469.41	0.53
88.439	23°9'54.0034"	88°1'15.0316"	2562151.73	604493.71	0.55
88.460	23°9'54.2422"	88°1'15.7174"	2562159.21	604513.16	0.58
88.486	23°9'54.5289"	88°1'16.5829"	2562168.20	604537.71	0.51
88.507	23°9'54.7566"	88°1'17.2753"	2562175.34	604557.35	0.48
88.528	23°9'54.9520"	88°1'17.9784"	2562181.49	604577.30	0.46
88.562	23°9'55.2684"	88°1'19.1216"	2562191.45	604609.74	0.48
88.593	23°9'55.5721"	88°1'20.1733"	2562201.00	604639.58	0.46
88.614	23°9'55.7434"	88°1'20.8843"	2562206.41	604659.76	0.53
88.648	23°9'55.9670"	88°1'22.0529"	2562213.52	604692.94	0.62
88.669	23°9'56.0960"	88°1'22.7737"	2562217.63	604713.41	0.58
88.690	23°9'56.2357"	88°1'23.4929"	2562222.07	604733.83	0.55
88.724	23°9'56.4082"	88°1'24.6713"	2562227.61	604767.30	0.56
88.753	23°9'56.3977"	88°1'25.6808"	2562227.49	604796.01	0.58
88.774	23°9'56.3972"	88°1'26.4155"	2562227.62	604816.90	0.66
88.797	23°9'56.3755"	88°1'27.2411"	2562227.12	604840.38	0.69
88.818	23°9'56.2762"	88°1'27.9676"	2562224.21	604861.06	0.73
88.839	23°9'56.1768"	88°1'28.6944"	2562221.30	604881.75	0.67

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
88.860	23°9'56.0752"	88°1'29.4192"	2562218.32	604902.38	0.66
88.881	23°9'55.9307"	88°1'30.1386"	2562214.02	604922.87	0.71
88.902	23°9'55.7963"	88°1'30.8585"	2562210.03	604943.37	0.67
88.941	23°9'55.5277"	88°1'32.2045"	2562202.04	604981.70	0.68
88.962	23°9'55.3849"	88°1'32.9225"	2562197.79	605002.15	0.63
88.990	23°9'55.0892"	88°1'33.8804"	2562188.89	605029.45	0.66
89.011	23°9'54.8701"	88°1'34.5757"	2562182.29	605049.27	0.65
89.032	23°9'54.6558"	88°1'35.2728"	2562175.84	605069.14	0.63
89.053	23°9'54.4406"	88°1'35.9696"	2562169.36	605089.00	0.61
89.074	23°9'54.1949"	88°1'36.6542"	2562161.94	605108.52	0.60
89.095	23°9'53.9417"	88°1'37.3359"	2562154.29	605127.96	0.60
89.116	23°9'53.6787"	88°1'38.0134"	2562146.34	605147.28	0.60
89.137	23°9'53.4090"	88°1'38.6876"	2562138.18	605166.51	0.67
89.157	23°9'53.1396"	88°1'39.3614"	2562130.03	605185.73	0.67
89.178	23°9'52.8696"	88°1'40.0360"	2562121.86	605204.97	0.56
89.199	23°9'52.5995"	88°1'40.7098"	2562113.69	605224.19	0.47
89.236	23°9'52.0925"	88°1'41.8707"	2562098.33	605257.31	0.52
89.257	23°9'51.7385"	88°1'42.4975"	2562087.57	605275.21	0.58

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
89.291	23°9'51.1725"	88°1'43.5222"	2562070.37	605304.47	0.56
89.311	23°9'50.8212"	88°1'44.1504"	2562059.69	605322.41	0.43
89.332	23°9'50.4740"	88°1'44.7821"	2562049.14	605340.45	0.39
89.356	23°9'50.1106"	88°1'45.5087"	2562038.11	605361.19	0.49
89.377	23°9'49.8013"	88°1'46.1626"	2562028.73	605379.85	0.57
89.408	23°9'49.3170"	88°1'47.1323"	2562014.03	605407.53	0.61
89.437	23°9'48.9260"	88°1'48.0489"	2562002.19	605433.68	0.59
89.458	23°9'48.6359"	88°1'48.7131"	2561993.40	605452.63	0.49
89.479	23°9'48.3551"	88°1'49.3823"	2561984.90	605471.72	0.54
89.510	23°9'47.9190"	88°1'50.3777"	2561971.69	605500.12	0.61
89.531	23°9'47.6169"	88°1'51.0351"	2561962.53	605518.88	0.43
89.559	23°9'47.2116"	88°1'51.9453"	2561950.25	605544.85	0.48
89.580	23°9'46.9312"	88°1'52.6141"	2561941.76	605563.93	0.43
89.604	23°9'46.6527"	88°1'53.3835"	2561933.35	605585.87	0.51
89.625	23°9'46.4150"	88°1'54.0717"	2561926.18	605605.49	0.61
89.646	23°9'46.1781"	88°1'54.7598"	2561919.03	605625.11	0.54
89.667	23°9'45.9307"	88°1'55.4444"	2561911.56	605644.63	0.53
89.687	23°9'45.6937"	88°1'56.1325"	2561904.41	605664.25	0.47

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
89.708	23°9'45.4573"	88°1'56.8207"	2561897.28	605683.87	0.35
89.731	23°9'45.2041"	88°1'57.5576"	2561889.64	605704.88	0.33
89.751	23°9'44.9775"	88°1'58.2353"	2561882.81	605724.20	0.37
89.781	23°09'45.5232"	88°1'59.5740"	2561899.86	605762.15	23.85
89.802	23°09'45.2971"	88°2'00.2349"	2561893.04	605780.99	23.62
89.822	23°09'45.0995"	88°2'00.9117"	2561887.10	605800.28	23.74
89.842	23°09'44.8903"	88°2'01.5733"	2561880.80	605819.14	23.83
89.862	23°09'44.6969"	88°2'02.2520"	2561874.99	605838.48	23.94
89.882	23°09'44.4877"	88°2'02.9133"	2561868.69	605857.33	24.03
89.902	23°09'44.2863"	88°2'03.5834"	2561862.63	605876.43	24.12
89.922	23°09'44.0852"	88°2'04.2535"	2561856.58	605895.53	24.02
89.944	23°09'43.9003"	88°2'04.9287"	2561851.03	605914.77	23.86
89.964	23°09'43.7342"	88°2'05.6100"	2561846.06	605934.18	23.85
89.984	23°09'43.5678"	88°2'06.2910"	2561841.08	605953.58	24.02
90.004	23°09'43.4017"	88°2'06.9723"	2561836.11	605972.99	23.62
90.024	23°09'43.2430"	88°2'7.6621"	2561831.37	605992.64	24.04
90.044	23°09'43.0769"	88°2'08.3430"	2561826.40	606012.04	23.84
90.064	23°09'42.9105"	88°2'9.0243"	2561821.42	606031.45	23.84

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
90.083	23°09'42.6896"	88°2'09.6454"	2561814.75	606049.16	23.71
90.106	23°09'42.5722"	88°2'10.3784"	2561811.29	606070.03	23.73
90.126	23°09'42.4354"	88°2'11.0673"	2561807.22	606089.65	23.75
90.146	23°09'42.2988"	88°2'11.7563"	2561803.16	606109.27	23.95
90.166	23°09'42.1623"	88°2'12.4452"	2561799.10	606128.89	23.92
90.186	23°09'42.0257"	88°2'13.1341"	2561795.04	606148.51	24.15
90.206	23°09'41.8889"	88°2'13.8226"	2561790.97	606168.12	23.82
90.227	23°09'41.7549"	88°2'14.5123"	2561786.99	606187.76	23.85
90.247	23°09'41.6398"	88°2'15.2056"	2561783.59	606207.50	24.13
90.267	23°09'41.5321"	88°2'15.9074"	2561780.42	606227.48	23.94
90.287	23°09'41.4092"	88°2'16.5921"	2561776.78	606246.98	23.62
90.308	23°09'41.2938"	88°2'17.2858"	2561773.37	606266.73	23.82
90.328	23°09'41.1884"	88°2'17.9809"	2561770.27	606286.52	24.02
90.348	23°09'41.0966"	88°2'18.6783"	2561767.59	606306.37	24.06
90.368	23°09'41.0046"	88°2'19.3756"	2561764.90	606326.22	23.92
90.388	23°09'40.9128"	88°2'20.0733"	2561762.22	606346.08	23.75
90.408	23°09'40.8211"	88°2'20.7706"	2561759.54	606365.93	23.63
90.429	23°09'40.7297"	88°2'21.4683"	2561756.87	606385.79	23.83

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
90.449	23°09'40.6635"	88°2'22.1768"	2561754.98	606405.95	23.74
90.469	23°09'40.5819"	88°2'22.8682"	2561752.61	606425.63	23.72
90.489	23°09'40.5158"	88°2'23.5767"	2561750.72	606445.79	24.04
90.509	23°09'40.4341"	88°2'24.2681"	2561748.35	606465.47	24.16
90.529	23°09'40.3612"	88°2'24.9680"	2561746.25	606485.39	24.03
90.549	23°09'40.2906"	88°2'25.6684"	2561744.22	606505.32	24.02
90.569	23°09'40.2197"	88°2'26.3687"	2561742.18	606525.25	23.95
90.589	23°09'40.1487"	88°2'27.0690"	2561740.14	606545.18	23.82
90.608	23°09'40.0309"	88°2'27.7179"	2561736.65	606563.66	23.81
90.629	23°09'40.0148"	88°2'28.4785"	2561736.31	606585.29	23.74
90.648	23°09'39.9355"	88°2'29.1699"	2561734.01	606604.97	23.65
90.668	23°09'39.8359"	88°2'29.8661"	2561731.09	606624.79	23.83
90.687	23°09'39.6896"	88°2'30.5110"	2561726.72	606643.16	23.71
90.708	23°09'39.6372"	88°2'31.2586"	2561725.26	606664.43	24.13
90.728	23°09'39.5376"	88°2'31.9548"	2561722.34	606684.25	23.95
90.748	23°09'39.4384"	88°2'32.6510"	2561719.43	606704.07	23.75
90.768	23°09'39.3469"	88°2'33.3561"	2561716.76	606724.14	23.94
90.787	23°09'39.1925"	88°2'33.9921"	2561712.14	606742.26	23.81

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
90.808	23°09'39.1400"	88°2'34.7400"	2561710.68	606763.54	24.03
90.829	23°09'39.0408"	88°2'35.4363"	2561707.77	606783.36	24.05
90.848	23°09'38.9048"	88°2'36.0823"	2561703.72	606801.76	23.91
90.870	23°09'38.8861"	88°2'36.8424"	2561703.30	606823.38	23.84
90.890	23°09'38.8048"	88°2'37.5339"	2561700.94	606843.06	23.76
90.910	23°09'38.7316"	88°2'38.2341"	2561698.83	606862.99	23.63
90.930	23°09'38.6657"	88°2'38.9426"	2561696.95	606883.15	23.94
90.949	23°09'38.5848"	88°2'39.6340"	2561694.60	606902.83	23.92
90.969	23°09'38.5031"	88°2'40.3328"	2561692.23	606922.72	23.82
90.989	23°09'38.4184"	88°2'41.0316"	2561689.77	606942.61	24.05
91.009	23°09'38.3338"	88°2'41.7301"	2561687.31	606962.49	24.12
91.029	23°09'38.2492"	88°2'42.4285"	2561684.85	606982.37	24.05
91.054	23°09'38.1646"	88°2'43.1270"	2561682.39	607002.25	23.95
91.074	23°09'38.1686"	88°02'43.8387"	2561682.66	607022.49	23.94
91.094	23°09'38.1842"	88°2'44.5341"	2561683.28	607042.26	23.96
91.114	23°09'38.2075"	88°02'45.2383"	2561684.14	607062.28	23.95
91.134	23°09'38.2311"	88°2'45.9422"	2561685.01	607082.29	23.93
91.155	23°09'38.2621"	88°2'46.6549"	2561686.11	607102.55	23.94

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
91.175	23°09'38.3082"	88°2'47.3483"	2561687.67	607122.26	23.95
91.195	23°09'38.3750"	88°2'48.0585"	2561689.87	607142.44	23.84
91.215	23°09'38.4264"	88°2'48.7513"	2561691.59	607162.13	23.83
91.235	23°09'38.4854"	88°2'49.4530"	2561693.55	607182.07	23.75
91.257	23°09'38.5522"	88°2'50.1632"	2561695.75	607202.25	23.64
91.277	23°09'38.6129"	88°2'50.8645"	2561697.76	607222.18	23.64
91.296	23°09'38.7004"	88°2'51.5530"	2561700.59	607241.74	23.83
91.316	23°09'38.7956"	88°2'52.2500"	2561703.66	607261.54	24.03
91.336	23°09'38.8908"	88°2'52.9467"	2561706.73	607281.33	24.03
91.356	23°09'38.9859"	88°2'53.6437"	2561709.80	607301.13	23.83
91.377	23°09'39.0811"	88°2'54.3408"	2561712.87	607320.93	23.62
91.397	23°09'39.1877"	88°2'55.0358"	2561716.29	607340.67	23.76
91.417	23°09'39.2962"	88°2'55.7305"	2561719.77	607360.40	24.03
91.437	23°09'39.4048"	88°2'56.4251"	2561723.25	607380.13	23.82
91.457	23°09'39.5130"	88°2'57.1198"	2561726.72	607399.86	23.95
91.478	23°09'39.6215"	88°2'57.8145"	2561730.20	607419.59	24.02
91.498	23°09'39.7431"	88°2'58.5064"	2561734.08	607439.24	23.93
91.518	23°09'39.8750"	88°2'59.1964"	2561738.28	607458.83	23.92

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
91.536	23°09'39.9599"	88°2'59.8346"	2561741.02	607476.96	24.11
91.558	23°09'40.1464"	88°3'00.5847"	2561746.91	607498.25	23.64
91.580	23°09'40.2703"	88°3'01.2661"	2561750.86	607517.60	24.03
91.600	23°09'40.4149"	88°3'01.9527"	2561755.45	607537.09	23.72
91.620	23°09'40.5961"	88°3'02.6293"	2561761.16	607556.29	23.93
91.640	23°09'40.7776"	88°3'03.3059"	2561766.88	607575.49	24.13
91.660	23°09'40.9587"	88°3'03.9825"	2561772.59	607594.69	23.73
91.680	23°09'41.1479"	88°3'04.6679"	2561778.55	607614.14	23.94
91.700	23°09'41.3214"	88°3'05.3360"	2561784.02	607633.10	23.73
91.720	23°09'41.5025"	88°3'06.0126"	2561789.73	607652.30	23.93
91.740	23°09'41.6917"	88°3'06.6977"	2561795.69	607671.74	24.14
91.760	23°09'41.8732"	88°3'07.3744"	2561801.41	607690.94	23.74
91.780	23°09'42.0543"	88°3'08.0513"	2561807.12	607710.15	23.94
91.800	23°09'42.2343"	88°3'08.7174"	2561812.79	607729.05	23.75
91.820	23°09'42.4229"	88°3'09.3916"	2561818.73	607748.18	23.85
91.838	23°09'42.5644"	88°3'10.0144"	2561823.21	607765.86	24.01
91.861	23°09'42.8079"	88°3'10.7488"	2561830.85	607786.69	24.14
91.880	23°09'42.9885"	88°3'11.4145"	2561836.54	607805.58	24.02

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
91.900	23°09'43.1771"	88°3'12.0887"	2561842.48	607824.71	23.82
91.921	23°09'43.3735"	88°3'12.7718"	2561848.66	607844.09	23.94
91.940	23°09'43.5554"	88°3'13.4372"	2561854.39	607862.97	23.65
91.960	23°09'43.7466"	88°3'14.1107"	2561860.41	607882.08	23.75
91.981	23°09'43.9378"	88°3'14.7842"	2561866.43	607901.19	23.82
92.001	23°09'44.1291"	88°3'15.4577"	2561872.45	607920.30	23.93
92.019	23°09'44.3203"	88°3'16.1313"	2561878.47	607939.41	24.05
92.039	23°09'44.4660"	88°3'16.8153"	2561883.09	607958.83	23.92
92.059	23°09'44.6113"	88°3'17.5019"	2561887.70	607978.32	24.02
92.079	23°09'44.7566"	88°3'18.1887"	2561892.31	607997.82	23.92
92.098	23°09'44.8547"	88°3'18.8239"	2561895.46	608015.86	24.01
92.114	23°09'45.0000"	88°3'19.5108"	2561900.07	608035.36	23.91
92.134	23°09'45.0740"	88°3'20.2077"	2561902.49	608055.16	23.71
92.155	23°09'45.1457"	88°3'20.9632"	2561904.85	608076.63	23.73
92.176	23°09'45.1787"	88°3'21.6760"	2561906.01	608096.89	23.74
92.196	23°09'45.1958"	88°3'22.3713"	2561906.68	608116.66	23.75
92.210	23°09'45.2207"	88°03'23.0752"	2561907.59	608136.67	23.75
92.230	23°09'45.1493"	88°03'23.7710"	2561905.54	608156.47	24.15

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
92.250	23°09'45.0237"	88°3'24.4624"	2561901.82	608176.16	23.86
92.270	23°09'44.8981"	88°3'25.1538"	2561898.10	608195.85	23.95
92.285	23°09'44.7093"	88°3'25.8247"	2561892.43	608214.97	23.65
92.305	23°09'44.4682"	88°3'26.4790"	2561885.15	608233.63	23.73
92.327	23°09'44.2345"	88°3'27.1422"	2561878.10	608252.54	23.94
92.347	23°09'44.0301"	88°3'27.8049"	2561871.95	608271.43	24.12
92.367	23°09'43.8479"	88°3'28.4874"	2561866.49	608290.88	23.74
92.381	23°9'42.8631"	88°3'28.6686"	2561836.24	608296.25	0.46
92.393	23°09'43.6681"	88°3'29.1633"	2561861.10	608310.14	23.94
92.401	23°9'42.7822"	88°3'29.3790"	2561833.90	608316.47	0.34
92.422	23°9'42.7316"	88°3'30.0928"	2561832.49	608336.78	0.26
92.442	23°9'42.6920"	88°3'30.8074"	2561831.42	608357.11	0.39
92.481	23°9'42.6152"	88°3'32.1674"	2561829.34	608395.80	0.37
92.503	23°9'42.6416"	88°3'32.9409"	2561830.31	608417.79	0.41
92.532	23°9'42.7489"	88°3'33.9489"	2561833.82	608446.43	0.42
92.552	23°9'42.8229"	88°3'34.6525"	2561836.24	608466.42	0.40
92.572	23°9'42.8870"	88°3'35.3651"	2561838.36	608486.67	0.35
92.594	23°9'42.9566"	88°3'36.1330"	2561840.66	608508.49	0.41

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
92.618	23°9'43.0308"	88°3'36.9550"	2561843.11	608531.85	0.37
92.649	23°9'42.6889"	88°3'37.9890"	2561832.81	608561.33	0.50
92.670	23°9'42.4470"	88°3'38.6556"	2561825.51	608580.34	0.45
92.690	23°9'42.1695"	88°3'39.3044"	2561817.11	608598.85	0.41
92.710	23°9'41.8719"	88°3'39.9445"	2561808.09	608617.12	0.38
92.731	23°9'41.5773"	88°3'40.5861"	2561799.16	608635.43	0.49
92.760	23°9'41.1829"	88°3'41.5420"	2561787.23	608662.70	0.41
92.784	23°9'40.8793"	88°3'42.2995"	2561778.05	608684.31	0.43
92.804	23°9'40.6439"	88°3'42.9672"	2561770.95	608703.35	0.37
92.825	23°9'40.5121"	88°3'43.6691"	2561767.04	608723.34	0.53
92.845	23°9'40.3698"	88°3'44.3689"	2561762.81	608743.27	0.61
92.865	23°9'40.3276"	88°3'45.0796"	2561761.66	608763.49	0.33
92.887	23°9'40.3351"	88°3'45.8508"	2561762.05	608785.42	0.44
92.926	23°9'40.4325"	88°3'47.2231"	2561765.33	608824.42	0.41
92.950	23°9'40.3672"	88°3'48.0300"	2561763.49	608847.38	0.43
92.970	23°9'40.1555"	88°3'48.7088"	2561757.12	608866.73	0.35
92.997	23°9'39.8223"	88°3'49.5688"	2561747.05	608891.26	0.29
93.017	23°9'39.5068"	88°3'50.1986"	2561737.48	608909.24	0.36

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
93.039	23°9'39.1816"	88°3'50.8845"	2561727.62	608928.82	0.74
93.067	23°9'38.7782"	88°3'51.7756"	2561715.40	608954.25	0.51
93.088	23°9'38.4809"	88°3'52.4147"	2561706.39	608972.49	0.32
93.114	23°9'38.0424"	88°3'53.2221"	2561693.07	608995.55	0.36
93.135	23°9'37.7030"	88°3'53.8373"	2561682.76	609013.12	0.30
93.155	23°9'37.3338"	88°3'54.4312"	2561671.53	609030.09	0.56
93.177	23°9'36.9409"	88°3'55.0751"	2561659.58	609048.49	0.78
93.197	23°9'36.5908"	88°3'55.6828"	2561648.94	609065.85	0.61
93.218	23°9'36.2521"	88°3'56.2983"	2561638.65	609083.43	0.43
93.252	23°9'35.6660"	88°3'57.3311"	2561620.84	609112.93	0.37
93.279	23°9'35.2015"	88°3'58.1211"	2561606.72	609135.50	0.60
93.301	23°9'34.8193"	88°3'58.7729"	2561595.10	609154.12	0.54
93.334	23°9'34.4133"	88°3'59.8102"	2561582.83	609183.71	0.34
93.354	23°9'34.3736"	88°4'0.5248"	2561581.76	609204.04	0.42
93.384	23°9'34.4189"	88°4'1.5661"	2561583.37	609233.64	0.47
93.409	23°9'34.5408"	88°4'2.4377"	2561587.30	609258.40	0.27
93.448	23°9'34.7190"	88°4'3.7779"	2561593.06	609296.47	0.32
93.468	23°9'34.7058"	88°4'4.4846"	2561592.80	609316.57	0.51

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
93.501	23°9'34.7142"	88°4'5.6451"	2561593.30	609349.57	0.46
93.528	23°9'34.6790"	88°4'6.6045"	2561592.42	609376.86	0.25
93.561	23°9'34.6458"	88°4'7.7654"	2561591.64	609409.88	0.45
93.581	23°9'34.6267"	88°4'8.4714"	2561591.20	609429.96	0.29
93.601	23°9'34.6099"	88°4'9.1784"	2561590.83	609450.07	0.51
93.637	23°9'34.6478"	88°4'10.4373"	2561592.26	609485.86	0.32
93.659	23°9'34.7511"	88°4'11.1780"	2561595.59	609506.90	0.50
93.689	23°9'34.9030"	88°4'12.2208"	2561600.48	609536.52	0.57
93.709	23°9'34.9982"	88°4'12.9481"	2561603.56	609557.18	0.22
93.737	23°9'35.1462"	88°4'13.8991"	2561608.31	609584.19	0.31
93.758	23°9'35.2815"	88°4'14.6169"	2561612.62	609604.57	0.23
93.779	23°9'35.5096"	88°4'15.3090"	2561619.78	609624.20	0.49
93.800	23°9'35.7367"	88°4'16.0007"	2561626.91	609643.82	0.57
93.836	23°9'36.1324"	88°4'17.2034"	2561639.33	609677.93	0.75
93.857	23°9'36.3592"	88°4'17.8951"	2561646.45	609697.55	0.46
93.885	23°9'36.6516"	88°4'18.8353"	2561655.64	609724.22	0.37
93.908	23°9'36.8837"	88°4'19.6031"	2561662.94	609746.00	0.51
93.931	23°9'37.1576"	88°4'20.3546"	2561671.52	609767.31	0.61

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
93.955	23°9'37.4452"	88°4'21.1404"	2561680.53	609789.59	0.40
93.979	23°9'37.7211"	88°4'21.9300"	2561689.18	609811.98	0.58
94.000	23°9'37.9375"	88°4'22.6255"	2561695.98	609831.71	0.29
94.026	23°9'38.1366"	88°4'23.5182"	2561702.29	609857.05	0.47
94.047	23°9'38.2956"	88°4'24.2323"	2561707.33	609877.32	0.31
94.075	23°9'38.4968"	88°4'25.1988"	2561713.72	609904.76	0.56
94.096	23°9'38.5637"	88°4'25.9301"	2561715.93	609925.54	0.52
94.130	23°9'38.6888"	88°4'27.1345"	2561720.03	609959.76	0.62
94.164	23°9'38.7868"	88°4'28.3049"	2561723.29	609993.02	0.51
94.187	23°9'38.8466"	88°4'29.1103"	2561725.30	610015.91	0.37
94.208	23°9'38.9051"	88°4'29.8422"	2561727.25	610036.71	0.65
94.243	23°9'38.9837"	88°4'31.0877"	2561729.93	610072.11	0.61
94.270	23°9'38.8833"	88°4'32.0339"	2561727.04	610099.04	0.48
94.317	23°9'38.6622"	88°4'33.6434"	2561720.58	610144.86	0.25
94.338	23°9'38.5631"	88°4'34.3927"	2561717.69	610166.19	0.60
94.375	23°9'38.3654"	88°4'35.6835"	2561711.88	610202.94	0.71
94.397	23°9'38.2501"	88°4'36.4309"	2561708.49	610224.22	0.65
94.435	23°9'38.0486"	88°4'37.7466"	2561702.57	610261.68	0.62

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
94.468	23°9'37.7492"	88°4'38.8755"	2561693.60	610293.85	0.60
94.489	23°9'37.5444"	88°4'39.5761"	2561687.45	610313.82	0.54
94.510	23°9'37.3737"	88°4'40.2865"	2561682.35	610334.06	0.39
94.531	23°9'37.2225"	88°4'41.0023"	2561677.85	610354.45	0.55
94.556	23°9'36.8999"	88°4'41.8114"	2561668.10	610377.53	0.35
94.577	23°9'36.6300"	88°4'42.4858"	2561659.94	610396.77	0.58
94.610	23°9'36.2142"	88°4'43.5712"	2561647.38	610427.73	0.62
94.648	23°9'35.6456"	88°4'44.7345"	2561630.14	610460.94	0.70
94.669	23°9'35.2371"	88°4'45.3213"	2561617.70	610477.72	0.45
94.706	23°9'34.4925"	88°4'46.3696"	2561595.02	610507.70	0.60
94.727	23°9'34.1506"	88°4'47.0037"	2561584.64	610525.81	0.50
94.752	23°9'33.7422"	88°4'47.7666"	2561572.24	610547.60	0.57
94.773	23°9'33.4049"	88°4'48.4032"	2561562.00	610565.78	0.47
94.794	23°9'33.0740"	88°4'49.0455"	2561551.96	610584.12	0.40
94.815	23°9'32.7506"	88°4'49.6914"	2561542.15	610602.56	0.36
94.846	23°9'32.3447"	88°4'50.7009"	2561529.88	610631.36	0.15
94.884	23°9'31.8785"	88°4'51.9230"	2561515.80	610666.22	0.29
94.921	23°9'31.4155"	88°4'53.1469"	2561501.82	610701.13	0.34

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
94.942	23°9'31.1563"	88°4'53.8263"	2561493.99	610720.51	0.57
94.971	23°9'30.8741"	88°4'54.8052"	2561485.52	610748.41	0.72
94.992	23°9'30.7161"	88°4'55.5199"	2561480.81	610768.77	0.65
95.013	23°9'30.5583"	88°4'56.2345"	2561476.11	610789.13	0.65
95.051	23°9'30.2537"	88°4'57.5146"	2561467.01	610825.60	0.41
95.080	23°9'30.0309"	88°4'58.5143"	2561460.37	610854.08	0.16
95.101	23°9'29.9881"	88°4'59.2468"	2561459.21	610874.92	0.40
95.141	23°9'29.9090"	88°5'0.6394"	2561457.07	610914.54	0.34
95.176	23°9'29.8149"	88°5'1.8835"	2561454.44	610949.94	0.24
95.197	23°9'29.7432"	88°5'2.6136"	2561452.39	610970.72	0.58
95.237	23°9'29.5854"	88°5'3.9989"	2561447.83	611010.15	0.57
95.258	23°9'29.5072"	88°5'4.7283"	2561445.58	611030.91	0.33
95.278	23°9'29.4316"	88°5'5.4588"	2561443.41	611051.70	0.23
95.299	23°9'29.3554"	88°5'6.1882"	2561441.22	611072.46	0.72
95.333	23°9'29.3220"	88°5'7.3614"	2561440.44	611105.83	0.83
95.354	23°9'29.3250"	88°5'8.0956"	2561440.69	611126.71	0.71
95.391	23°9'29.4239"	88°5'9.4099"	2561444.01	611164.06	0.68
95.414	23°9'29.5439"	88°5'10.2070"	2561447.87	611186.70	0.60

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
95.435	23°9'29.6567"	88°5'10.9312"	2561451.49	611207.27	0.55
95.456	23°9'29.7648"	88°5'11.6568"	2561454.97	611227.88	0.69
95.479	23°9'29.8822"	88°5'12.4546"	2561458.75	611250.54	0.79
95.500	23°9'29.9949"	88°5'13.1789"	2561462.37	611271.11	0.68
95.521	23°9'30.1044"	88°5'13.9049"	2561465.89	611291.73	0.62
95.542	23°9'30.2057"	88°5'14.6308"	2561469.16	611312.35	0.72
95.579	23°9'30.4732"	88°5'15.9186"	2561477.66	611348.91	0.71
95.600	23°9'30.6667"	88°5'16.6224"	2561483.76	611368.88	0.65
95.621	23°9'30.8605"	88°5'17.3269"	2561489.87	611388.87	0.50
95.652	23°9'31.1442"	88°5'18.3834"	2561498.82	611418.85	0.51
95.673	23°9'31.3038"	88°5'19.0975"	2561503.88	611439.12	0.47
95.700	23°9'31.5110"	88°5'20.0255"	2561510.45	611465.46	0.49
95.721	23°9'31.6706"	88°5'20.7395"	2561515.51	611485.73	0.41
95.753	23°9'31.9354"	88°5'21.8033"	2561523.88	611515.92	0.43
95.774	23°9'32.1090"	88°5'22.5133"	2561529.37	611536.07	0.44
95.794	23°9'32.2797"	88°5'23.2243"	2561534.77	611556.25	0.50
95.822	23°9'32.3589"	88°5'24.1751"	2561537.41	611583.27	0.42
95.842	23°9'32.4108"	88°5'24.9070"	2561539.16	611604.07	0.55

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
95.863	23°9'32.4717"	88°5'25.6386"	2561541.19	611624.86	0.59
95.893	23°9'32.5407"	88°5'26.6638"	2561543.53	611654.00	0.60
95.913	23°9'32.5945"	88°5'27.3957"	2561545.34	611674.80	0.54
95.934	23°9'32.6408"	88°5'28.1279"	2561546.92	611695.61	0.28
95.955	23°9'32.6910"	88°5'28.8611"	2561548.62	611716.45	0.36
95.984	23°9'32.8641"	88°5'29.8721"	2561554.16	611745.16	0.50
96.022	23°9'33.0886"	88°5'31.1722"	2561561.34	611782.08	0.54
96.047	23°9'33.2097"	88°5'32.0428"	2561565.25	611806.81	0.55
96.068	23°9'33.2752"	88°5'32.7738"	2561567.42	611827.58	0.73
96.104	23°9'33.3872"	88°5'34.0163"	2561571.13	611862.89	0.85
96.124	23°9'33.4533"	88°5'34.7476"	2561573.32	611883.67	0.78
96.146	23°9'33.5430"	88°5'35.4988"	2561576.24	611905.01	0.75
96.168	23°9'33.7295"	88°5'36.2289"	2561582.13	611925.73	0.69
96.199	23°9'33.9985"	88°5'37.2913"	2561590.63	611955.88	0.63
96.228	23°9'34.2553"	88°5'38.2865"	2561598.74	611984.12	0.63
96.267	23°9'34.6305"	88°5'39.5998"	2561610.56	612021.38	0.74
96.291	23°9'34.9119"	88°5'40.3683"	2561619.38	612043.17	0.76
96.312	23°9'35.1691"	88°5'41.0730"	2561627.44	612063.15	0.72

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
96.334	23°9'35.4250"	88°5'41.7728"	2561635.46	612082.99	0.61
96.354	23°9'35.6731"	88°5'42.4261"	2561643.23	612101.51	0.59
96.374	23°9'35.9245"	88°5'43.0790"	2561651.10	612120.02	0.52
96.412	23°9'36.3924"	88°5'44.2971"	2561665.75	612154.55	0.62
96.440	23°9'36.7443"	88°5'45.2125"	2561676.77	612180.50	0.72
96.460	23°9'36.9767"	88°5'45.8832"	2561684.06	612199.52	0.56
96.480	23°9'37.1983"	88°5'46.5584"	2561691.02	612218.67	0.40
96.510	23°9'37.5182"	88°5'47.5460"	2561701.07	612246.68	0.53
96.531	23°9'37.7389"	88°5'48.2216"	2561708.00	612265.84	0.14
96.553	23°9'37.9777"	88°5'48.9480"	2561715.50	612286.44	0.27
96.573	23°9'38.2156"	88°5'49.6159"	2561722.96	612305.38	0.31
96.612	23°9'38.6837"	88°5'50.8970"	2561737.63	612341.70	0.51
96.632	23°9'38.9232"	88°5'51.5646"	2561745.14	612360.63	0.48
96.653	23°9'39.1644"	88°5'52.2315"	2561752.70	612379.54	0.53
96.675	23°9'39.4377"	88°5'52.9438"	2561761.26	612399.73	0.61
96.714	23°9'39.9270"	88°5'54.2155"	2561776.58	612435.78	0.70
96.741	23°9'40.2458"	88°5'55.0856"	2561786.57	612460.45	0.74
96.780	23°9'40.5962"	88°5'56.4096"	2561797.63	612498.02	0.61

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
96.802	23°9'40.7994"	88°5'57.1487"	2561804.04	612518.99	0.55
96.825	23°9'41.0062"	88°5'57.9445"	2561810.57	612541.57	0.49
96.846	23°9'41.1480"	88°5'58.6440"	2561815.08	612561.43	0.63
96.874	23°9'41.3321"	88°5'59.6154"	2561820.95	612589.01	0.70
96.894	23°9'41.4647"	88°6'0.3166"	2561825.18	612608.92	0.49
96.924	23°9'41.6048"	88°6'1.3523"	2561829.71	612638.34	0.74
96.944	23°9'41.7032"	88°6'2.0603"	2561832.89	612658.45	0.60
96.965	23°9'41.8020"	88°6'2.7683"	2561836.08	612678.56	0.38
96.985	23°9'41.9004"	88°6'3.4770"	2561839.26	612698.69	0.43
97.005	23°9'41.9787"	88°6'4.1880"	2561841.82	612718.89	0.52
97.030	23°9'42.0571"	88°6'5.0650"	2561844.42	612743.81	0.51
97.052	23°9'42.1269"	88°6'5.8325"	2561846.73	612765.62	0.49
97.073	23°9'42.1911"	88°6'6.5455"	2561848.86	612785.88	0.32
97.093	23°9'42.2535"	88°6'7.2588"	2561850.93	612806.15	0.57
97.124	23°9'42.2640"	88°6'8.3603"	2561851.49	612837.47	0.59
97.146	23°9'42.2712"	88°6'9.1312"	2561851.88	612859.39	0.49
97.167	23°9'42.2740"	88°6'9.8475"	2561852.12	612879.76	0.35
97.187	23°9'42.2824"	88°6'10.5636"	2561852.53	612900.12	0.42

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
97.214	23°9'42.3464"	88°6'11.4978"	2561854.70	612926.67	0.45
97.243	23°9'42.4311"	88°6'12.5404"	2561857.53	612956.30	0.50
97.264	23°9'42.4869"	88°6'13.2540"	2561859.40	612976.58	0.41
97.287	23°9'42.5579"	88°6'14.0764"	2561861.76	612999.95	0.50
97.311	23°9'42.6194"	88°6'14.9002"	2561863.83	613023.36	0.43
97.331	23°9'42.6999"	88°6'15.6108"	2561866.46	613043.55	0.54
97.351	23°9'42.6631"	88°6'16.3258"	2561865.48	613063.89	0.43
97.372	23°9'42.6236"	88°6'17.0404"	2561864.42	613084.22	0.52
97.392	23°9'42.5792"	88°6'17.7550"	2561863.21	613104.55	0.47
97.416	23°9'42.4435"	88°6'18.5676"	2561859.21	613127.69	0.52
97.438	23°9'42.2896"	88°6'19.3206"	2561854.64	613149.14	0.57
97.458	23°9'42.1562"	88°6'20.0225"	2561850.69	613169.13	0.48
97.478	23°9'41.9226"	88°6'20.6912"	2561843.65	613188.20	0.42
97.505	23°9'41.5940"	88°6'21.5574"	2561833.73	613212.91	0.36
97.536	23°9'41.2083"	88°6'22.5765"	2561822.09	613241.98	0.66
97.557	23°9'40.8834"	88°6'23.2005"	2561812.23	613259.80	0.53
97.577	23°9'40.5603"	88°6'23.8259"	2561802.43	613277.66	0.38
97.604	23°9'40.1173"	88°6'24.6293"	2561788.98	613300.61	0.40

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
97.639	23°9'39.4686"	88°6'25.6533"	2561769.25	613329.88	0.42
97.668	23°9'38.9236"	88°6'26.4974"	2561752.67	613354.01	0.66
97.689	23°9'38.4706"	88°6'27.0549"	2561738.86	613369.97	0.40
97.710	23°9'38.0238"	88°6'27.6142"	2561725.24	613385.98	0.43
97.743	23°9'37.4732"	88°6'28.6052"	2561708.52	613414.29	0.43
97.764	23°9'37.1281"	88°6'29.2167"	2561698.04	613431.76	0.42
97.800	23°9'36.5449"	88°6'30.3150"	2561680.34	613463.13	0.40
97.837	23°9'36.0201"	88°6'31.5092"	2561664.46	613497.21	0.35
97.858	23°9'35.7356"	88°6'32.1560"	2561655.85	613515.67	0.41
97.884	23°9'35.4574"	88°6'33.0107"	2561647.48	613540.04	0.44
97.909	23°9'35.2300"	88°6'33.8573"	2561640.67	613564.17	0.45
97.934	23°9'34.9997"	88°6'34.7029"	2561633.77	613588.27	0.55
97.954	23°9'34.8537"	88°6'35.4011"	2561629.43	613608.16	0.42
97.979	23°9'34.6919"	88°6'36.2652"	2561624.64	613632.77	0.45
98.004	23°9'34.5333"	88°6'37.1297"	2561619.95	613657.39	0.58
98.025	23°9'34.4869"	88°6'37.8439"	2561618.68	613677.71	0.57
98.054	23°9'34.4383"	88°6'38.8889"	2561617.41	613707.44	0.65
98.075	23°9'34.4287"	88°6'39.6073"	2561617.27	613727.87	0.38

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
98.115	23°9'34.5219"	88°6'40.9995"	2561620.44	613767.44	0.65
98.143	23°9'34.6449"	88°6'42.0010"	2561624.44	613795.89	0.54
98.163	23°9'34.7378"	88°6'42.6998"	2561627.45	613815.74	0.51
98.185	23°9'34.9927"	88°6'43.4055"	2561635.44	613835.75	0.63
98.214	23°9'35.3418"	88°6'44.3424"	2561646.38	613862.31	0.58
98.250	23°9'35.8517"	88°6'45.4775"	2561662.31	613894.47	0.63
98.270	23°9'36.1520"	88°6'46.1052"	2561671.68	613912.25	0.60
98.290	23°9'36.4803"	88°6'46.7167"	2561681.91	613929.56	0.57
98.313	23°9'36.8378"	88°6'47.4257"	2561693.06	613949.64	0.62
98.333	23°9'37.1449"	88°6'48.0504"	2561702.64	613967.33	0.59
98.355	23°9'37.3945"	88°6'48.7578"	2561710.47	613987.39	0.72
98.375	23°9'37.6451"	88°6'49.4105"	2561718.32	614005.89	0.65
98.395	23°9'37.8977"	88°6'50.0621"	2561726.23	614024.36	0.63
98.415	23°9'38.1135"	88°6'50.7285"	2561733.01	614043.26	0.59
98.444	23°9'38.4339"	88°6'51.6764"	2561743.07	614070.14	0.66
98.464	23°9'38.6313"	88°6'52.3504"	2561749.29	614089.26	0.62
98.501	23°9'39.0052"	88°6'53.5994"	2561761.06	614124.69	0.62
98.521	23°9'39.2027"	88°6'54.2730"	2561767.28	614143.80	0.85

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
98.548	23°9'39.5336"	88°6'55.1633"	2561777.65	614169.04	0.84
98.569	23°9'39.7842"	88°6'55.8160"	2561785.50	614187.54	0.60
98.590	23°9'40.0824"	88°6'56.4992"	2561794.82	614206.90	0.78
98.610	23°9'40.4509"	88°6'57.0829"	2561806.28	614223.41	0.64
98.630	23°9'40.8302"	88°6'57.6582"	2561818.07	614239.68	0.74
98.669	23°9'41.7709"	88°6'58.5662"	2561847.20	614265.28	0.77
98.692	23°9'42.2949"	88°6'59.1413"	2561863.44	614281.51	0.73
98.712	23°9'42.7324"	88°6'59.6661"	2561877.01	614296.33	0.60
98.741	23°9'43.4445"	88°7'0.3018"	2561899.05	614314.24	0.55
98.761	23°9'43.9906"	88°7'0.6917"	2561915.93	614325.20	0.61
98.781	23°9'44.5147"	88°7'1.1114"	2561932.14	614337.01	0.77
98.818	23°9'45.4170"	88°7'1.9896"	2561960.08	614361.77	0.81
98.838	23°9'45.8905"	88°7'2.4756"	2561974.75	614375.48	0.99
98.866	23°9'46.5309"	88°7'3.1403"	2561994.59	614394.23	0.96
98.889	23°9'46.9410"	88°7'3.8154"	2562007.35	614413.33	0.99
98.909	23°9'47.2873"	88°7'4.4147"	2562018.13	614430.29	0.78
98.929	23°9'47.6104"	88°7'5.0300"	2562028.20	614447.71	0.41
98.949	23°9'47.9325"	88°7'5.6449"	2562038.24	614465.12	0.41

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
98.969	23°9'48.2408"	88°7'6.2674"	2562047.86	614482.75	0.58
98.998	23°9'48.6062"	88°7'7.1957"	2562059.30	614509.06	0.02
99.018	23°9'48.8193"	88°7'7.8638"	2562066.00	614528.01	0.77
99.038	23°9'48.9464"	88°7'8.5563"	2562070.06	614547.67	0.41
99.058	23°9'49.0435"	88°7'9.2551"	2562073.20	614567.52	0.34
99.095	23°9'49.2066"	88°7'10.5559"	2562078.50	614604.47	0.39
99.116	23°9'49.2049"	88°7'11.2627"	2562078.60	614624.57	0.31
99.136	23°9'49.2112"	88°7'11.9696"	2562078.95	614644.67	0.39
99.157	23°9'49.2179"	88°7'12.7275"	2562079.32	614666.22	0.37
99.177	23°9'49.1738"	88°7'13.4325"	2562078.12	614686.28	0.68
99.207	23°9'49.0273"	88°7'14.4740"	2562073.84	614715.93	0.80
99.227	23°9'48.8660"	88°7'15.1594"	2562069.03	614735.46	0.67
99.247	23°9'48.7070"	88°7'15.8453"	2562064.29	614755.00	0.83
99.270	23°9'48.4587"	88°7'16.6021"	2562056.82	614776.58	0.86
99.290	23°9'48.1473"	88°7'17.2237"	2562047.38	614794.33	0.53
99.311	23°9'47.8693"	88°7'17.8631"	2562038.97	614812.58	0.87
99.335	23°9'47.4797"	88°7'18.6110"	2562027.15	614833.94	0.93
99.355	23°9'47.1650"	88°7'19.2305"	2562017.61	614851.63	0.90

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
99.375	23°9'46.8741"	88°7'19.8635"	2562008.80	614869.70	0.85
99.395	23°9'46.5734"	88°7'20.4919"	2561999.69	614887.64	0.82
99.417	23°9'46.2931"	88°7'21.1809"	2561991.22	614907.30	0.69
99.437	23°9'46.1302"	88°7'21.8653"	2561986.36	614926.80	0.47
99.457	23°9'45.9660"	88°7'22.5500"	2561981.46	614946.31	0.61
99.477	23°9'45.8664"	88°7'23.2483"	2561978.55	614966.19	0.51
99.497	23°9'45.7703"	88°7'23.9480"	2561975.75	614986.11	0.58
99.517	23°9'45.6743"	88°7'24.6477"	2561972.95	615006.03	0.86
99.539	23°9'45.5156"	88°7'25.3845"	2561968.23	615027.02	0.80
99.573	23°9'45.2487"	88°7'26.5617"	2561960.28	615060.56	0.73
99.593	23°9'45.0757"	88°7'27.2432"	2561955.11	615079.98	0.70
99.614	23°9'44.9238"	88°7'27.9309"	2561950.59	615099.57	0.65
99.635	23°9'44.7554"	88°7'28.6655"	2561945.57	615120.50	0.73
99.655	23°9'44.5921"	88°7'29.3505"	2561940.70	615140.02	0.87
99.680	23°9'44.3940"	88°7'30.1820"	2561934.79	615163.71	0.97
99.700	23°9'44.2311"	88°7'30.8667"	2561929.93	615183.22	0.92
99.720	23°9'44.0756"	88°7'31.5536"	2561925.30	615202.79	0.41
99.740	23°9'43.9215"	88°7'32.2405"	2561920.71	615222.36	0.66

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
99.760	23°9'43.7547"	88°7'32.9241"	2561915.73	615241.84	0.86
99.780	23°9'43.5700"	88°7'33.6023"	2561910.20	615261.17	1.02
99.805	23°9'43.3437"	88°7'34.4254"	2561903.42	615284.63	1.02
99.827	23°9'43.1200"	88°7'35.1958"	2561896.71	615306.59	0.98
99.848	23°9'42.9292"	88°7'35.8718"	2561890.99	615325.86	0.95
99.875	23°9'42.7284"	88°7'36.8066"	2561885.02	615352.49	0.90
99.895	23°9'42.5768"	88°7'37.4942"	2561880.51	615372.08	0.71
99.915	23°9'42.4301"	88°7'38.1830"	2561876.15	615391.70	0.58
99.935	23°9'42.3341"	88°7'38.8820"	2561873.35	615411.60	0.97
99.958	23°9'42.2227"	88°7'39.6814"	2561870.10	615434.36	0.86
99.978	23°9'42.1152"	88°7'40.3785"	2561866.95	615454.21	0.37
99.998	23°9'42.0117"	88°7'41.0768"	2561863.92	615474.09	0.59
100.023	23°9'41.9133"	88°7'41.9283"	2561861.08	615498.33	0.77
100.053	23°9'41.7867"	88°7'42.9801"	2561857.42	615528.27	0.76
100.082	23°9'41.7048"	88°7'43.9838"	2561855.12	615556.83	1.00
100.116	23°9'41.7354"	88°7'45.1951"	2561856.33	615591.27	0.87
100.136	23°9'41.7528"	88°7'45.9021"	2561857.02	615611.37	0.70
100.156	23°9'41.7708"	88°7'46.6087"	2561857.73	615631.46	0.65

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
100.176	23°9'41.7417"	88°7'47.3146"	2561856.99	615651.54	0.64
100.197	23°9'41.7103"	88°7'48.0205"	2561856.18	615671.62	0.58
100.217	23°9'41.6773"	88°7'48.7267"	2561855.32	615691.71	0.69
100.237	23°9'41.6384"	88°7'49.4325"	2561854.28	615711.79	0.63
100.265	23°9'41.5749"	88°7'50.4405"	2561852.55	615740.47	0.66
100.287	23°9'41.5243"	88°7'51.1958"	2561851.16	615761.96	0.64
100.307	23°9'41.4760"	88°7'51.9008"	2561849.83	615782.02	0.61
100.327	23°9'41.4254"	88°7'52.6051"	2561848.43	615802.06	0.58
100.355	23°9'41.3678"	88°7'53.5628"	2561846.87	615829.31	0.67
100.375	23°9'41.3513"	88°7'54.2695"	2561846.52	615849.41	0.87
100.400	23°9'41.3311"	88°7'55.1780"	2561846.10	615875.25	0.90
100.421	23°9'41.3137"	88°7'55.8847"	2561845.72	615895.35	0.56
100.441	23°9'41.3392"	88°7'56.5904"	2561846.66	615915.41	0.56
100.461	23°9'41.3777"	88°7'57.2965"	2561848.00	615935.48	0.46
100.481	23°9'41.4064"	88°7'58.0028"	2561849.04	615955.56	0.54
100.501	23°9'41.4222"	88°7'58.7091"	2561849.68	615975.64	0.85
100.538	23°9'41.3461"	88°8'0.0194"	2561847.63	616012.92	0.97
100.573	23°9'41.2818"	88°8'1.2289"	2561845.92	616047.33	0.04

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
100.594	23°9'41.2763"	88°8'1.9867"	2561845.92	616068.88	0.06
100.614	23°9'41.2709"	88°8'2.6935"	2561845.91	616088.98	0.97
100.646	23°9'41.2626"	88°8'3.8046"	2561845.90	616120.58	0.99
100.666	23°9'41.2477"	88°8'4.5117"	2561845.60	616140.69	0.94
100.686	23°9'41.2231"	88°8'5.2179"	2561845.00	616160.78	0.85
100.721	23°9'41.2248"	88°8'6.4276"	2561845.32	616195.18	0.85
100.741	23°9'41.3167"	88°8'7.1275"	2561848.30	616215.06	0.67
100.761	23°9'41.4072"	88°8'7.8277"	2561851.24	616234.95	0.54
100.781	23°9'41.4981"	88°8'8.5279"	2561854.19	616254.84	0.52
100.803	23°9'41.5060"	88°8'9.2805"	2561854.60	616276.24	0.66
100.841	23°9'41.3421"	88°8'10.6323"	2561849.86	616314.72	0.90
100.862	23°9'41.2587"	88°8'11.3335"	2561847.45	616334.68	0.64
100.895	23°9'41.1675"	88°8'12.4897"	2561844.90	616367.58	0.75
100.923	23°9'41.1127"	88°8'13.4985"	2561843.44	616396.28	0.76
100.952	23°9'41.0183"	88°8'14.5023"	2561840.76	616424.85	0.75
100.974	23°9'40.9030"	88°8'15.2493"	2561837.38	616446.12	0.85
100.994	23°9'40.7848"	88°8'15.9446"	2561833.90	616465.92	0.70
101.014	23°9'40.6745"	88°8'16.6417"	2561830.66	616485.77	0.57

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
101.034	23°9'40.5128"	88°8'17.3254"	2561825.84	616505.25	0.86
101.067	23°9'40.2085"	88°8'18.4396"	2561816.73	616537.01	0.69
101.087	23°9'40.0251"	88°8'19.1182"	2561811.24	616556.35	0.59
101.107	23°9'39.8398"	88°8'19.7960"	2561805.69	616575.67	0.64
101.132	23°9'39.6153"	88°8'20.6187"	2561798.97	616599.12	0.72
101.152	23°9'39.3946"	88°8'21.2847"	2561792.33	616618.11	0.56
101.172	23°9'39.1680"	88°8'21.9477"	2561785.51	616637.02	0.53
101.200	23°9'38.8432"	88°8'22.8948"	2561775.73	616664.03	0.62
101.221	23°9'38.6578"	88°8'23.5726"	2561770.18	616683.35	0.69
101.259	23°9'38.2852"	88°8'24.8762"	2561759.01	616720.51	0.70
101.281	23°9'38.0359"	88°8'25.5827"	2561751.50	616740.66	0.76
101.301	23°9'37.7348"	88°8'26.2099"	2561742.38	616758.57	0.62
101.321	23°9'37.4224"	88°8'26.8297"	2561732.91	616776.27	0.44
101.344	23°9'37.0748"	88°8'27.5455"	2561722.38	616796.71	0.52
101.364	23°9'36.7634"	88°8'28.1671"	2561712.94	616814.46	0.51
101.384	23°9'36.4235"	88°8'28.7701"	2561702.62	616831.69	0.64
101.410	23°9'35.9718"	88°8'29.5364"	2561688.90	616853.59	0.66
101.430	23°9'35.6209"	88°8'30.1333"	2561678.24	616870.65	0.52

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
101.450	23°9'35.2702"	88°8'30.7299"	2561667.59	616887.70	0.44
101.473	23°9'34.8660"	88°8'31.4090"	2561655.31	616907.11	0.46
101.493	23°9'34.4963"	88°8'31.9921"	2561644.07	616923.78	0.39
101.514	23°9'34.1263"	88°8'32.5755"	2561632.82	616940.46	0.89
101.537	23°9'33.6991"	88°8'33.2379"	2561619.83	616959.40	0.83
101.557	23°9'33.3217"	88°8'33.8149"	2561608.35	616975.90	0.49
101.577	23°9'32.9449"	88°8'34.3930"	2561596.89	616992.43	0.76
101.598	23°9'32.5194"	88°8'34.9942"	2561583.94	617009.63	0.88
101.618	23°9'32.1216"	88°8'35.5556"	2561571.83	617025.69	0.75
101.650	23°9'31.4822"	88°8'36.4254"	2561552.36	617050.58	0.49
101.672	23°9'30.9861"	88°8'36.9926"	2561537.23	617066.83	0.45
101.693	23°9'30.5121"	88°8'37.5189"	2561522.77	617081.91	0.29
101.731	23°9'29.9042"	88°8'38.6731"	2561504.33	617114.88	0.27
101.752	23°9'29.5850"	88°8'39.3213"	2561494.66	617133.39	0.26
101.773	23°9'29.2365"	88°8'39.9513"	2561484.08	617151.39	0.36
101.796	23°9'28.8315"	88°8'40.6416"	2561471.78	617171.12	0.45
101.830	23°9'28.4639"	88°8'41.7353"	2561460.72	617202.31	0.56
101.865	23°9'28.0889"	88°8'42.9207"	2561449.45	617236.11	0.65

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
101.904	23°9'27.7126"	88°8'44.2235"	2561438.17	617273.25	0.79
101.934	23°9'27.4091"	88°8'45.2329"	2561429.06	617302.03	0.81
101.957	23°9'27.1683"	88°8'45.9690"	2561421.82	617323.02	0.89
101.980	23°9'26.9632"	88°8'46.7640"	2561415.69	617345.68	0.76
102.001	23°9'26.6147"	88°8'47.3831"	2561405.11	617363.37	0.60
102.038	23°9'25.8692"	88°8'48.4405"	2561382.42	617393.62	0.57
102.059	23°9'25.3933"	88°8'48.9650"	2561367.90	617408.65	0.57
102.088	23°9'24.7461"	88°8'49.6926"	2561348.16	617429.50	0.58
102.109	23°9'24.2161"	88°8'50.1491"	2561331.96	617442.61	0.57
102.138	23°9'23.4568"	88°8'50.7383"	2561308.74	617459.55	0.60
102.165	23°9'22.7412"	88°8'51.3121"	2561286.86	617476.04	0.67
102.186	23°9'22.1757"	88°8'51.7162"	2561269.56	617487.67	0.61
102.207	23°9'21.5721"	88°8'52.0515"	2561251.07	617497.35	0.77
102.228	23°9'20.9642"	88°8'52.3797"	2561232.45	617506.83	0.55
102.249	23°9'20.3564"	88°8'52.7085"	2561213.83	617516.33	0.73
102.269	23°9'19.7550"	88°8'53.0494"	2561195.41	617526.17	0.66
102.290	23°9'19.2043"	88°8'53.4350"	2561178.56	617537.27	0.66
102.325	23°9'18.2911"	88°8'54.1692"	2561150.64	617558.37	0.71

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
102.345	23°9'17.7661"	88°8'54.6053"	2561134.59	617570.90	0.65
102.370	23°9'17.2052"	88°8'55.2275"	2561117.48	617588.73	0.55
102.395	23°9'16.6454"	88°8'55.8870"	2561100.41	617607.62	0.56
102.421	23°9'16.1181"	88°8'56.5756"	2561084.35	617627.33	0.67
102.441	23°9'15.7325"	88°8'57.1574"	2561072.62	617643.97	0.82
102.480	23°9'14.9575"	88°8'58.2437"	2561049.03	617675.05	0.81
102.501	23°9'14.5279"	88°8'58.7886"	2561035.94	617690.65	0.78
102.528	23°9'13.9362"	88°8'59.4973"	2561017.90	617710.95	0.63
102.562	23°9'13.2233"	88°9'0.4083"	2560996.18	617737.03	0.85
102.582	23°9'12.8057"	88°9'0.9642"	2560983.46	617752.94	0.70
102.602	23°9'12.3941"	88°9'1.5250"	2560970.93	617768.99	0.60
102.626	23°9'11.9046"	88°9'2.1700"	2560956.02	617787.45	0.58
102.662	23°9'11.1792"	88°9'3.1487"	2560933.93	617815.46	0.66
102.682	23°9'10.7651"	88°9'3.7071"	2560921.32	617831.44	0.44
102.706	23°9'10.2940"	88°9'4.3694"	2560906.98	617850.39	0.50
102.726	23°9'9.8903"	8°9'4.9373"	2560894.69	617866.64	0.61
102.748	23°9'9.4391"	8°9'5.5404"	2560880.95	617883.90	0.44
102.769	23°9'9.0450"	8°9'6.1154"	2560868.96	617900.35	0.36

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
102.791	23°9'8.6087"	8°9'6.7313"	2560855.68	617917.97	0.49
102.818	23°9'8.0257"	8°9'7.4482"	2560837.91	617938.50	0.57
102.842	23°9'7.5152"	8°9'8.0743"	2560822.35	617956.43	0.57
102.862	23°9'7.0823"	8°9'8.6170"	2560809.16	617971.97	0.52
102.898	23°9'6.3676"	8°9'9.6015"	2560787.40	618000.14	0.41
102.933	23°9'5.7136"	8°9'10.6360"	2560767.52	618029.72	0.41
102.954	23°9'5.3422"	8°9'11.2288"	2560756.23	618046.67	0.56
102.976	23°9'4.9466"	8°9'11.8759"	2560744.21	618065.17	0.50
103.005	23°9'4.4122"	8°9'12.7096"	2560727.96	618089.01	0.44
103.025	23°9'4.0097"	8°9'13.2779"	2560715.71	618105.27	0.32
103.045	23°9'3.6072"	8°9'13.8459"	2560703.46	618121.52	0.39
103.067	23°9'3.1703"	8°9'14.4620"	2560690.16	618139.15	0.38
103.089	23°9'2.7372"	8°9'15.0800"	2560676.98	618156.83	0.47
103.123	23°9'2.0731"	8°9'16.0335"	2560656.77	618184.11	0.48
103.146	23°9'1.6262"	8°9'16.6644"	2560643.17	618202.16	0.46
103.166	23°9'1.2238"	8°9'17.2327"	2560630.92	618218.42	0.36
103.187	23°9'0.8342"	8°9'17.8116"	2560619.07	618234.98	0.28
103.207	23°9'0.4686"	8°9'18.4091"	2560607.96	618252.06	0.41

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
103.238	23°8'59.8929"	88°9'19.3177"	2560590.46	618278.04	0.36
103.259	23°8'59.5179"	88°9'19.9080"	2560579.06	618294.92	0.40
103.287	23°8'59.0017"	88°9'20.7274"	2560563.37	618318.35	0.42
103.307	23°8'58.6303"	88°9'21.3202"	2560552.08	618335.30	0.40
103.328	23°8'58.2262"	88°9'21.8871"	2560539.78	618351.52	0.36
103.351	23°8'57.7306"	88°9'22.5158"	2560524.68	618369.52	0.42
103.372	23°8'57.2939"	88°9'23.0539"	2560511.37	618384.93	0.37
103.403	23°8'56.6206"	88°9'23.8814"	2560490.85	618408.63	0.49
103.423	23°8'56.1958"	88°9'24.4298"	2560477.91	618424.33	0.43
103.444	23°8'55.7604"	88°9'24.9679"	2560464.64	618439.74	0.41
103.464	23°8'55.3211"	88°9'25.5056"	2560451.25	618455.14	0.38
103.489	23°8'54.7817"	88°9'26.1663"	2560434.81	618474.06	0.45
103.514	23°8'54.2549"	88°9'26.8379"	2560418.76	618493.29	0.41
103.539	23°8'53.7549"	88°9'27.5347"	2560403.54	618513.23	0.42
103.560	23°8'53.3433"	88°9'28.0952"	2560391.01	618529.27	0.41
103.594	23°8'52.6470"	88°9'29.0435"	2560369.81	618556.41	0.12
103.618	23°8'52.1593"	88°9'29.7060"	2560354.96	618575.37	0.87
103.639	23°8'51.7386"	88°9'30.2825"	2560342.15	618591.87	0.82

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
103.661	23°8'51.2902"	88°9'30.8940"	2560328.50	618609.37	0.66
103.687	23°8'50.7754"	88°9'31.6234"	2560312.83	618630.24	0.51
103.721	23°8'50.0802"	88°9'32.5499"	2560291.66	618656.76	0.56
103.742	23°8'49.6578"	88°9'33.1254"	2560278.80	618673.23	0.47
103.764	23°8'49.2050"	88°9'33.7326"	2560265.01	618690.61	0.98
103.785	23°8'48.7859"	88°9'34.2976"	2560252.25	618706.78	0.75
103.807	23°8'48.3507"	88°9'34.8937"	2560239.00	618723.84	0.50
103.839	23°8'47.6814"	88°9'35.7961"	2560218.62	618749.67	0.94
103.861	23°8'47.2377"	88°9'36.3999"	2560205.11	618766.95	1.06
103.881	23°8'46.8285"	88°9'36.9505"	2560192.65	618782.71	0.91
103.911	23°8'46.2864"	88°9'37.7939"	2560176.17	618806.83	0.86
103.936	23°8'45.8163"	88°9'38.5364"	2560161.88	618828.06	0.78
103.958	23°8'45.4156"	88°9'39.1739"	2560149.70	618846.29	0.72
103.978	23°8'45.0513"	88°9'39.7615"	2560138.63	618863.09	1.01
104.008	23°8'44.5345"	88°9'40.6244"	2560122.93	618887.76	0.91
104.029	23°8'44.0579"	88°9'41.1896"	2560108.40	618903.95	0.81
104.066	23°8'43.1730"	88°9'42.0469"	2560081.38	618928.55	0.93
104.086	23°8'42.6899"	88°9'42.5234"	2560066.63	618942.22	0.83

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
104.117	23°8'41.9467"	88°9'43.2617"	2560043.94	618963.40	0.70
104.141	23°8'41.3790"	88°9'43.8282"	2560026.61	618979.65	0.73
104.161	23°8'40.9327"	88°9'44.3405"	2560013.00	618994.33	0.68
104.181	23°8'40.4087"	88°9'44.7618"	2559996.98	619006.44	0.87
104.201	23°8'39.8702"	88°9'45.1625"	2559980.51	619017.97	0.93
104.222	23°8'39.3279"	88°9'45.5573"	2559963.92	619029.33	0.65
104.242	23°8'38.7891"	88°9'45.9580"	2559947.44	619040.86	0.63
104.264	23°8'38.2112"	88°9'46.4084"	2559929.77	619053.81	0.68
104.289	23°8'37.5684"	88°9'46.9798"	2559910.13	619070.22	0.61
104.328	23°8'36.6019"	88°9'47.8308"	2559880.60	619094.66	0.75
104.360	23°8'35.8290"	88°9'48.6300"	2559857.01	619117.58	0.75
104.386	23°8'35.2629"	88°9'49.2890"	2559839.75	619136.46	0.47
104.406	23°8'34.8376"	88°9'49.8257"	2559826.79	619151.83	0.52
104.437	23°8'34.1734"	88°9'50.6480"	2559806.55	619175.38	0.69
104.466	23°8'33.6071"	88°9'51.4743"	2559789.32	619199.02	0.73
104.488	23°8'33.1876"	88°9'52.0962"	2559776.56	619216.81	0.72
104.508	23°8'32.7997"	88°9'52.6663"	2559764.76	619233.12	0.95
104.530	23°8'32.4264"	88°9'53.3220"	2559753.43	619251.86	1.05

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
104.554	23°8'32.0468"	88°9'54.0486"	2559741.92	619272.62	1.02
104.574	23°8'31.7281"	88°9'54.6671"	2559732.26	619290.29	0.96
104.594	23°8'31.4108"	88°9'55.2850"	2559722.64	619307.94	0.91
104.624	23°8'30.9476"	88°9'56.1828"	2559708.60	619333.59	0.81
104.656	23°8'30.3873"	88°9'57.1667"	2559691.59	619361.71	0.82
104.684	23°8'29.9069"	88°9'57.9786"	2559677.00	619384.92	0.91
104.711	23°8'29.4261"	88°9'58.7905"	2559662.40	619408.13	0.95
104.731	23°8'29.0732"	88°9'59.3862"	2559651.68	619425.16	0.93
104.752	23°8'28.7319"	88°9'59.9884"	2559641.32	619442.37	0.82
104.772	23°8'28.4048"	88°10'0.6012"	2559631.40	619459.88	0.77
104.794	23°8'28.0506"	88°10'1.2700"	2559620.66	619478.99	0.74
104.825	23°8'27.5565"	88°10'2.2228"	2559605.68	619506.21	0.50
104.845	23°8'27.2294"	88°10'2.8349"	2559595.76	619523.70	0.99
104.876	23°8'26.7194"	88°10'3.7770"	2559580.29	619550.62	0.81
104.896	23°8'26.3561"	88°10'4.3642"	2559569.25	619567.41	0.72
104.916	23°8'25.9953"	88°10'4.9542"	2559558.29	619584.28	0.57
104.940	23°8'25.5694"	88°10'5.6509"	2559545.35	619604.20	0.92
104.960	23°8'25.2087"	88°10'6.2398"	2559534.39	619621.04	0.53

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
104.980	23°8'24.8467"	88°10'6.8284"	2559523.39	619637.87	0.41
105.018	23°8'24.2371"	88°10'8.0063"	2559504.91	619671.52	0.46
105.040	23°8'23.8861"	88°10'8.6776"	2559494.27	619690.70	0.61
105.073	23°8'23.3623"	88°10'9.6856"	2559478.39	619719.50	0.66
105.097	23°8'22.9804"	88°10'10.4112"	2559466.81	619740.23	0.69
105.119	23°8'22.6078"	88°10'11.0686"	2559455.50	619759.02	0.74
105.141	23°8'22.2309"	88°10'11.7235"	2559444.06	619777.74	0.81
105.168	23°8'21.7612"	88°10'12.5429"	2559429.80	619801.16	0.90
105.188	23°8'21.4150"	88°10'13.1421"	2559419.29	619818.29	0.88
105.216	23°8'20.9446"	88°10'13.9608"	2559405.01	619841.69	0.94
105.237	23°8'20.5871"	88°10'14.6022"	2559394.16	619860.02	0.93
105.257	23°8'20.2301"	88°10'15.2038"	2559383.32	619877.22	0.77
105.278	23°8'19.8839"	88°10'15.8140"	2559372.81	619894.66	0.73
105.298	23°8'19.5395"	88°10'16.4256"	2559362.36	619912.14	0.56
105.318	23°8'19.1962"	88°10'17.0375"	2559351.94	619929.63	0.32
105.339	23°8'18.8567"	88°10'17.6523"	2559341.64	619947.20	0.73
105.376	23°8'18.2285"	88°10'18.7864"	2559322.58	619979.61	0.45
105.400	23°8'17.8370"	88°10'19.4956"	2559310.70	619999.88	0.95

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
105.420	23°8'17.4966"	88°10'20.1087"	2559300.37	620017.40	0.82
105.441	23°8'17.1564"	88°10'20.7231"	2559290.05	620034.96	0.45
105.461	23°8'16.8144"	88°10'21.3365"	2559279.67	620052.49	0.63
105.481	23°8'16.4849"	88°10'21.9573"	2559269.68	620070.23	0.71
105.508	23°8'16.0604"	88°10'22.7735"	2559256.81	620093.55	0.71
105.530	23°8'15.7140"	88°10'23.4473"	2559246.31	620112.80	0.64
105.550	23°8'15.3887"	88°10'24.0710"	2559236.45	620130.62	0.33
105.571	23°8'15.0641"	88°10'24.6951"	2559226.61	620148.45	0.60
105.593	23°8'14.7138"	88°10'25.3667"	2559215.99	620167.64	0.77
105.613	23°8'14.3873"	88°10'25.9901"	2559206.09	620185.45	0.32
105.641	23°8'13.9312"	88°10'26.8499"	2559192.26	620210.02	0.36
105.661	23°8'13.5943"	88°10'27.4658"	2559182.04	620227.62	0.61
105.690	23°8'13.1236"	88°10'28.3168"	2559167.76	620251.94	0.60
105.721	23°8'12.6071"	88°10'29.2661"	2559152.09	620279.07	0.70
105.741	23°8'12.2676"	88°10'29.8809"	2559141.79	620296.64	0.60
105.762	23°8'11.9303"	88°10'30.4971"	2559131.56	620314.25	0.71
105.787	23°8'11.5111"	88°10'31.2550"	2559118.84	620335.91	0.65
105.811	23°8'11.1070"	88°10'31.9891"	2559106.58	620356.89	0.63

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
105.849	23°8'10.5838"	88°10'33.1757"	2559090.76	620390.77	0.59
105.869	23°8'10.3000"	88°10'33.8223"	2559082.18	620409.23	0.58
105.900	23°8'9.8630"	8°10'34.8176"	2559068.97	620437.65	0.60
105.935	23°8'9.4444"	8°10'35.9672"	2559056.36	620470.45	0.55
105.973	23°8'8.7694"	8°10'37.0938"	2559035.86	620502.66	0.69
105.993	23°8'8.3906"	8°10'37.6670"	2559024.34	620519.06	0.65
106.014	23°8'8.0406"	8°10'38.2951"	2559013.72	620537.01	0.63
106.035	23°8'7.6796"	8°10'38.9093"	2559002.76	620554.57	0.58
106.072	23°8'7.0233"	8°10'40.0248"	2558982.83	620586.46	0.61
106.105	23°8'6.4489"	8°10'41.0003"	2558965.39	620614.35	0.57
106.130	23°8'6.0191"	8°10'41.7310"	2558952.34	620635.24	0.30
106.152	23°8'5.6407"	8°10'42.3743"	2558940.85	620653.63	0.52
106.172	23°8'5.2854"	8°10'42.9783"	2558930.06	620670.90	0.69
106.199	23°8'4.8158"	8°10'43.7646"	2558915.80	620693.38	0.78
106.235	23°8'4.1852"	8°10'44.8321"	2558896.65	620723.90	0.75
106.255	23°8'3.8256"	8°10'45.4337"	2558885.73	620741.10	0.51
106.282	23°8'3.4545"	8°10'46.2788"	2558874.51	620765.23	0.50
106.305	23°8'3.1364"	8°10'47.0302"	2558864.90	620786.68	0.54

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
106.336	23°8'2.7027"	8°10'48.0266"	2558851.79	620815.13	0.73
106.357	23°8'2.4367"	8°10'48.6824"	2558843.76	620833.85	0.71
106.379	23°8'2.1440"	8°10'49.3855"	2558834.92	620853.92	0.81
106.410	23°8'1.7180"	8°10'50.3859"	2558822.05	620882.48	0.84
106.430	23°8'1.4896"	8°10'51.0571"	2558815.18	620901.63	0.66
106.452	23°8'1.2874"	8°10'51.7961"	2558809.13	620922.70	0.68
106.473	23°8'1.0859"	8°10'52.4778"	2558803.09	620942.14	0.57
106.495	23°8'0.8979"	8°10'53.2219"	2558797.48	620963.35	0.69
106.515	23°8'0.7551"	8°10'53.9206"	2558793.25	620983.26	0.78
106.535	23°8'0.6321"	8°10'54.6238"	2558789.63	621003.29	0.80
106.557	23°8'0.4510"	8°10'55.3675"	2558784.23	621024.49	0.84
106.578	23°8'0.2501"	8°10'56.0496"	2558778.21	621043.94	0.53
106.604	23°7'59.9814"	88°10'56.9395"	2558770.15	621069.32	0.89
106.625	23°7'59.7718"	88°10'57.6187"	2558763.86	621088.69	0.70
106.645	23°7'59.6079"	88°10'58.3116"	2558758.98	621108.44	0.49
106.665	23°7'59.4644"	88°10'59.0107"	2558754.73	621128.36	0.58
106.697	23°7'59.2314"	88°11'0.0827"	2558747.81	621158.91	0.53
106.717	23°7'59.0850"	88°11'0.7811"	2558743.47	621178.81	0.51

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
106.739	23°7'58.9194"	88°11'1.5313"	2558738.55	621200.19	0.50
106.761	23°7'58.7655"	88°11'2.2841"	2558733.99	621221.64	0.70
106.792	23°7'58.5282"	88°11'3.3553"	2558726.94	621252.17	0.77
106.814	23°7'58.3811"	88°11'4.1092"	2558722.59	621273.65	0.89
106.840	23°7'58.2233"	88°11'4.9938"	2558717.94	621298.85	0.79
106.860	23°7'58.0595"	88°11'5.6783"	2558713.06	621318.36	0.71
106.880	23°7'57.9034"	88°11'6.3650"	2558708.42	621337.93	0.57
106.900	23°7'57.7403"	88°11'7.0495"	2558703.56	621357.44	0.66
106.926	23°7'57.5458"	88°11'7.9235"	2558697.78	621382.35	0.84
106.946	23°7'57.4011"	88°11'8.6131"	2558693.49	621402.00	0.53
106.977	23°7'57.1658"	88°11'9.6756"	2558686.50	621432.28	0.82
107.004	23°7'56.9679"	88°11'10.6150"	2558680.63	621459.05	0.87
107.032	23°7'56.7047"	88°11'11.5352"	2558672.75	621485.29	0.89
107.052	23°7'56.5036"	88°11'12.2078"	2558666.72	621504.47	0.83
107.072	23°7'56.3064"	88°11'12.8814"	2558660.81	621523.68	0.71
107.092	23°7'56.0884"	88°11'13.5475"	2558654.26	621542.68	0.67
107.112	23°7'55.9772"	88°11'14.2440"	2558651.00	621562.52	0.74
107.149	23°7'55.7816"	88°11'15.5115"	2558645.28	621598.62	0.67

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
107.173	23°7'55.6613"	88°11'16.3356"	2558641.77	621622.09	0.83
107.193	23°7'55.4653"	88°11'17.0099"	2558635.90	621641.32	0.56
107.213	23°7'55.2804"	88°11'17.6879"	2558630.37	621660.65	0.58
107.237	23°7'55.0011"	88°11'18.4659"	2558621.96	621682.85	0.54
107.257	23°7'54.7510"	88°11'19.1191"	2558614.42	621701.49	0.62
107.277	23°7'54.4508"	88°11'19.7433"	2558605.33	621719.32	0.89
107.304	23°7'53.9324"	88°11'20.5266"	2558589.57	621741.73	0.90
107.324	23°7'53.5774"	88°11'21.1201"	2558578.79	621758.70	0.86
107.353	23°7'53.0760"	88°11'21.9935"	2558563.57	621783.67	0.82
107.384	23°7'52.4285"	88°11'22.8214"	2558543.85	621807.38	0.80
107.405	23°7'51.9724"	88°11'23.3271"	2558529.94	621821.88	0.73
107.425	23°7'51.5076"	88°11'23.8240"	2558515.76	621836.13	0.62
107.445	23°7'51.0038"	88°11'24.2738"	2558500.37	621849.05	0.73
107.465	23°7'50.5061"	88°11'24.7328"	2558485.17	621862.23	0.58
107.485	23°7'50.0001"	88°11'25.1794"	2558469.71	621875.06	0.73
107.507	23°7'49.4421"	88°11'25.6600"	2558452.66	621888.87	0.78
107.542	23°7'48.5636"	88°11'26.4267"	2558425.82	621910.90	0.83
107.562	23°7'48.0546"	88°11'26.8701"	2558410.27	621923.64	0.64

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
107.593	23°7'47.2787"	88°11'27.5671"	2558386.57	621943.66	0.79
107.613	23°7'46.8359"	88°11'28.0881"	2558373.07	621958.59	0.69
107.649	23°7'46.0492"	88°11'29.0500"	2558349.10	621986.15	0.67
107.670	23°7'45.6816"	88°11'29.6339"	2558337.93	622002.85	0.62
107.702	23°7'45.0706"	88°11'30.5837"	2558319.36	622030.02	0.67
107.723	23°7'44.7557"	88°11'31.2029"	2558309.82	622047.71	0.46
107.743	23°7'44.4486"	88°11'31.8263"	2558300.52	622065.52	0.54
107.763	23°7'44.1153"	88°11'32.4340"	2558290.41	622082.89	0.73
107.783	23°7'43.9096"	88°11'33.1033"	2558284.24	622101.98	0.61
107.803	23°7'43.7357"	88°11'33.7842"	2558279.05	622121.39	0.80
107.836	23°7'43.4438"	88°11'34.8968"	2558270.33	622153.11	0.87
107.856	23°7'43.2157"	88°11'35.5592"	2558263.47	622172.01	0.85
107.876	23°7'42.9873"	88°11'36.2216"	2558256.60	622190.91	0.82
107.896	23°7'42.7586"	88°11'36.8841"	2558249.72	622209.81	0.66
107.927	23°7'42.4020"	88°11'37.9057"	2558238.99	622238.96	0.54
107.947	23°7'42.2057"	88°11'38.5793"	2558233.11	622258.17	0.71
107.976	23°7'41.9323"	88°11'39.5641"	2558224.93	622286.25	0.63
108.006	23°7'41.6128"	88°11'40.5312"	2558215.33	622313.84	0.53

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
108.042	23°7'41.3565"	88°11'41.7858"	2558207.74	622349.59	0.84
108.062	23°7'41.2151"	88°11'42.4757"	2558203.55	622369.25	0.73
108.082	23°7'41.0817"	88°11'43.1675"	2558199.61	622388.96	0.52
108.102	23°7'40.9367"	88°11'43.8570"	2558195.31	622408.61	0.85
108.139	23°7'40.6528"	88°11'45.1043"	2558186.87	622444.16	0.82
108.172	23°7'40.4020"	88°11'46.2288"	2558179.42	622476.21	0.89
108.192	23°7'40.2317"	88°11'46.9114"	2558174.34	622495.67	0.88
108.214	23°7'40.0504"	88°11'47.6569"	2558168.94	622516.92	0.79
108.234	23°7'39.8937"	88°11'48.3432"	2558164.28	622536.48	0.73
108.263	23°7'39.6456"	88°11'49.3355"	2558156.88	622564.77	0.84
108.285	23°7'39.4659"	88°11'50.0821"	2558151.53	622586.05	0.89
108.305	23°7'39.3021"	88°11'50.7658"	2558146.65	622605.54	0.82
108.325	23°7'39.1314"	88°11'51.4481"	2558141.56	622624.99	0.93
108.353	23°7'38.9013"	88°11'52.3794"	2558134.70	622651.54	0.92
108.373	23°7'38.7549"	88°11'53.0682"	2558130.36	622671.17	0.86
108.393	23°7'38.6134"	88°11'53.7581"	2558126.17	622690.83	0.71
108.419	23°7'38.4416"	88°11'54.6383"	2558121.09	622715.91	0.72
108.439	23°7'38.3007"	88°11'55.3282"	2558116.92	622735.57	0.67

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
108.459	23°7'38.1667"	88°11'56.0203"	2558112.96	622755.29	0.71
108.479	23°7'38.0103"	88°11'56.7069"	2558108.31	622774.86	0.60
108.508	23°7'37.7411"	88°11'57.6917"	2558100.26	622802.94	0.63
108.528	23°7'37.5558"	88°11'58.3700"	2558094.72	622822.28	0.64
108.550	23°7'37.3534"	88°11'59.1089"	2558088.67	622843.35	0.67
108.570	23°7'37.1584"	88°11'59.7836"	2558082.83	622862.59	0.63
108.607	23°7'36.8284"	88°12'1.0178"	2558072.97	622897.78	0.76
108.627	23°7'36.6444"	88°12'1.6964"	2558067.47	622917.13	0.83
108.648	23°7'36.4769"	88°12'2.3966"	2558062.48	622937.09	0.76
108.669	23°7'36.3058"	88°12'3.1309"	2558057.39	622958.02	0.48
108.691	23°7'36.1275"	88°12'3.8630"	2558052.08	622978.89	0.58
108.720	23°7'35.8758"	88°12'4.8592"	2558044.57	623007.29	0.69
108.751	23°7'35.6887"	88°12'5.9404"	2558039.07	623038.09	0.74
108.773	23°7'35.5650"	88°12'6.6856"	2558035.44	623059.32	0.73
108.794	23°7'35.4585"	88°12'7.4335"	2558032.34	623080.62	0.84
108.836	23°7'35.2275"	88°12'8.8573"	2558025.57	623121.18	0.85
108.857	23°7'35.0645"	88°12'9.5949"	2558020.73	623142.20	0.94
108.888	23°7'34.8401"	88°12'10.6690"	2558014.08	623172.81	0.89

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
108.926	23°7'34.5676"	88°12'11.9434"	2558006.00	623209.13	0.84
108.953	23°7'34.3761"	88°12'12.8846"	2558000.33	623235.95	0.84
108.982	23°7'34.1675"	88°12'13.8917"	2557994.15	623264.65	0.90
109.004	23°7'34.0058"	88°12'14.6281"	2557989.35	623285.64	0.92
109.029	23°7'33.7895"	88°12'15.4917"	2557982.90	623310.26	0.87
109.051	23°7'33.6300"	88°12'16.2286"	2557978.17	623331.26	0.82
109.072	23°7'33.4947"	88°12'16.9670"	2557974.18	623352.30	0.80
109.098	23°7'33.3504"	88°12'17.8478"	2557969.95	623377.39	0.92
109.119	23°7'33.2273"	88°12'18.5934"	2557966.34	623398.63	0.80
109.141	23°7'33.1172"	88°12'19.3412"	2557963.13	623419.93	0.74
109.164	23°7'32.9839"	88°12'20.1546"	2557959.22	623443.10	0.85
109.198	23°7'32.8008"	88°12'21.3082"	2557953.86	623475.96	0.80
109.219	23°7'32.6803"	88°12'22.0545"	2557950.33	623497.22	0.77
109.243	23°7'32.5778"	88°12'22.8717"	2557947.37	623520.49	0.87
109.270	23°7'32.5227"	88°12'23.8334"	2557945.90	623547.86	0.63
109.292	23°7'32.4681"	88°12'24.5880"	2557944.40	623569.34	0.34
109.315	23°7'32.4163"	88°12'25.4127"	2557943.00	623592.81	0.45
109.343	23°7'32.3767"	88°12'26.3749"	2557942.01	623620.19	0.49

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
109.364	23°7'32.3469"	88°12'27.1315"	2557941.27	623641.72	0.60
109.387	23°7'32.3062"	88°12'27.9425"	2557940.21	623664.80	0.64
109.416	23°7'32.2473"	88°12'28.9685"	2557938.64	623694.00	0.68
109.437	23°7'32.2298"	88°12'29.6754"	2557938.27	623714.11	0.72
109.462	23°7'32.1937"	88°12'30.5736"	2557937.37	623739.67	0.79
109.482	23°7'32.2374"	88°12'31.2771"	2557938.88	623759.67	0.87
109.502	23°7'32.3114"	88°12'31.9795"	2557941.32	623779.63	0.83
109.528	23°7'32.4099"	88°12'32.8726"	2557944.56	623805.01	0.84
109.561	23°7'32.4228"	88°12'34.0290"	2557945.23	623837.90	0.82
109.586	23°7'32.4305"	88°12'34.9290"	2557945.68	623863.50	0.82
109.606	23°7'32.4332"	88°12'35.6339"	2557945.93	623883.55	0.75
109.627	23°7'32.4922"	88°12'36.3376"	2557947.91	623903.55	0.68
109.647	23°7'32.5609"	88°12'37.0409"	2557950.19	623923.54	0.50
109.667	23°7'32.6300"	88°12'37.7436"	2557952.48	623943.51	0.47
109.687	23°7'32.6633"	88°12'38.4491"	2557953.67	623963.57	0.85
109.714	23°7'32.6848"	88°12'39.4126"	2557954.56	623990.97	0.92
109.736	23°7'32.7033"	88°12'40.1830"	2557955.31	624012.88	0.94
109.762	23°7'32.7113"	88°12'41.0823"	2557955.77	624038.46	0.94

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
109.782	23°7'32.7251"	88°12'41.7891"	2557956.36	624058.56	0.77
109.802	23°7'32.7310"	88°12'42.4961"	2557956.71	624078.67	0.53
109.822	23°7'32.7370"	88°12'43.2028"	2557957.06	624098.77	0.59
109.842	23°7'32.7433"	88°12'43.9095"	2557957.42	624118.87	0.68
109.879	23°7'32.7692"	88°12'45.1943"	2557958.52	624155.41	0.70
109.912	23°7'32.7450"	88°12'46.3500"	2557958.05	624188.29	0.54
109.932	23°7'32.6950"	88°12'47.0541"	2557956.68	624208.33	0.36
109.952	23°7'32.6590"	88°12'47.7597"	2557955.74	624228.41	0.62
109.987	23°7'32.5476"	88°12'48.9743"	2557952.60	624262.99	0.76
110.007	23°7'32.5070"	88°12'49.6799"	2557951.52	624283.07	0.46
110.027	23°7'32.4636"	88°12'50.3844"	2557950.35	624303.12	0.33
110.047	23°7'32.3649"	88°12'51.0827"	2557947.48	624323.01	0.42
110.067	23°7'32.3026"	88°12'51.7860"	2557945.73	624343.03	0.63
110.093	23°7'32.2102"	88°12'52.6798"	2557943.10	624368.48	0.68
110.113	23°7'32.1420"	88°12'53.3827"	2557941.17	624388.49	0.84
110.133	23°7'32.0287"	88°12'54.0784"	2557937.85	624408.31	0.67
110.153	23°7'31.9183"	88°12'54.7749"	2557934.62	624428.15	0.61
110.180	23°7'31.7478"	88°12'55.7208"	2557929.60	624455.10	0.69

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
110.208	23°7'31.5831"	88°12'56.6682"	2557924.76	624482.09	0.63
110.235	23°7'31.3759"	88°12'57.6053"	2557918.61	624508.80	0.72
110.255	23°7'31.2269"	88°12'58.2934"	2557914.19	624528.41	0.63
110.275	23°7'31.0724"	88°12'58.9800"	2557909.60	624547.98	0.70
110.301	23°7'30.8787"	88°12'59.8546"	2557903.85	624572.91	0.70
110.332	23°7'30.6490"	88°13'0.9185"	2557897.04	624603.23	0.71
110.361	23°7'30.4342"	88°13'1.9199"	2557890.67	624631.77	0.72
110.381	23°7'30.2884"	88°13'2.6087"	2557886.35	624651.40	0.68
110.401	23°7'30.1407"	88°13'3.2974"	2557881.97	624671.03	0.62
110.436	23°7'29.8750"	88°13'4.4836"	2557874.08	624704.84	0.66
110.456	23°7'29.7201"	88°13'5.1702"	2557869.48	624724.41	0.81
110.478	23°7'29.5456"	88°13'5.9178"	2557864.29	624745.72	0.83
110.499	23°7'29.3903"	88°13'6.6170"	2557859.68	624765.65	0.70
110.520	23°7'29.2275"	88°13'7.3531"	2557854.85	624786.63	0.58
110.553	23°7'28.8844"	88°13'8.4606"	2557844.56	624818.22	0.60
110.577	23°7'28.6173"	88°13'9.2344"	2557836.53	624840.30	0.64
110.598	23°7'28.3719"	88°13'9.9437"	2557829.15	624860.54	0.62
110.620	23°7'28.1391"	88°13'10.6577"	2557822.16	624880.91	0.82

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
110.655	23°7'27.7047"	88°13'11.7932"	2557809.07	624913.32	0.71
110.675	23°7'27.4551"	88°13'12.4462"	2557801.55	624931.96	0.60
110.707	23°7'27.0586"	88°13'13.4821"	2557789.60	624961.53	0.63
110.742	23°7'26.6172"	88°13'14.6354"	2557776.30	624994.45	0.62
110.789	23°7'25.9220"	88°13'16.0687"	2557755.26	625035.40	0.54
110.809	23°7'25.5584"	88°13'16.6677"	2557744.22	625052.53	0.60
110.836	23°7'25.0998"	88°13'17.4794"	2557730.31	625075.74	0.54
110.876	23°7'24.4079"	88°13'18.6547"	2557709.31	625109.35	0.61
110.903	23°7'23.8468"	88°13'19.3942"	2557692.23	625130.53	0.89
110.924	23°7'23.4219"	88°13'19.9725"	2557679.30	625147.09	0.75
110.945	23°7'22.9862"	88°13'20.5655"	2557666.04	625164.07	0.65
110.983	23°7'22.2356"	88°13'21.5898"	2557643.20	625193.40	0.60
111.018	23°7'21.4276"	88°13'22.4680"	2557618.56	625218.59	0.87
111.039	23°7'20.9370"	88°13'23.0074"	2557603.60	625234.06	0.65
111.061	23°7'20.4390"	88°13'23.5401"	2557588.41	625249.34	0.70
111.090	23°7'19.7578"	88°13'24.2609"	2557567.63	625270.02	0.85
111.112	23°7'19.2333"	88°13'24.7631"	2557551.62	625284.44	0.80
111.133	23°7'18.7088"	88°13'25.2649"	2557535.61	625298.85	0.79

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
111.155	23°7'18.1844"	88°13'25.7670"	2557519.60	625313.27	0.77
111.176	23°7'17.6548"	88°13'26.2625"	2557503.43	625327.50	0.80
111.198	23°7'17.1303"	88°13'26.7639"	2557487.42	625341.90	0.86
111.223	23°7'16.4980"	88°13'27.3414"	2557468.11	625358.49	0.86
111.245	23°7'15.9661"	88°13'27.8337"	2557451.87	625372.63	0.80
111.266	23°7'15.4841"	88°13'28.3633"	2557437.17	625387.82	0.70
111.286	23°7'15.0278"	88°13'28.8696"	2557423.26	625402.34	0.59
111.306	23°7'14.5726"	88°13'29.3759"	2557409.38	625416.86	0.55
111.326	23°7'14.1093"	88°13'29.8744"	2557395.25	625431.16	0.79
111.356	23°7'13.4458"	88°13'30.6108"	2557375.02	625452.28	0.61
111.376	23°7'12.9851"	88°13'31.1118"	2557360.97	625466.65	0.74
111.409	23°7'12.2093"	88°13'31.9080"	2557337.30	625489.50	0.79
111.429	23°7'11.7353"	88°13'32.3948"	2557322.84	625503.47	0.74
111.465	23°7'10.8694"	88°13'33.2753"	2557296.42	625528.74	0.69
111.485	23°7'10.3955"	88°13'33.7621"	2557281.96	625542.71	0.57
111.515	23°7'9.7062"	8°13'34.4694"	2557260.93	625563.01	0.54
111.535	23°7'9.2319"	8°13'34.9566"	2557246.46	625576.99	0.56
111.555	23°7'8.7615"	8°13'35.4476"	2557232.11	625591.08	0.64

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
111.577	23°7'8.2450"	8°13'35.9783"	2557216.35	625606.31	0.76
111.602	23°7'7.6445"	8°13'36.6010"	2557198.03	625624.18	0.89
111.622	23°7'7.1754"	8°13'37.0931"	2557183.72	625638.30	0.76
111.646	23°7'6.6223"	8°13'37.6762"	2557166.85	625655.03	0.89
111.666	23°7'6.1551"	8°13'38.1708"	2557152.60	625669.22	0.87
111.686	23°7'5.6866"	8°13'38.6640"	2557138.31	625683.37	0.90
111.706	23°7'5.2191"	8°13'39.1571"	2557124.05	625697.52	0.83
111.734	23°7'4.5834"	8°13'39.8333"	2557104.66	625716.92	0.73
111.754	23°7'4.1175"	8°13'40.3290"	2557090.45	625731.14	0.40
111.787	23°7'3.3701"	8°13'41.1563"	2557067.66	625754.87	0.39
111.816	23°7'2.7024"	8°13'41.8836"	2557047.30	625775.73	0.51
111.838	23°7'2.2113"	8°13'42.4419"	2557032.33	625791.74	0.84
111.865	23°7'1.5982"	8°13'43.1418"	2557013.64	625811.81	0.81
111.885	23°7'1.1300"	8°13'43.6343"	2556999.36	625825.94	0.46
111.906	23°7'0.6886"	8°13'44.1555"	2556985.91	625840.88	0.38
111.926	23°7'0.2469"	8°13'44.6770"	2556972.45	625855.83	0.33
111.948	23°6'59.7652"	88°13'45.2452"	2556957.77	625872.12	0.40
111.986	23°6'58.9228"	88°13'46.2405"	2556932.10	625900.65	0.38

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
112.006	23°6'58.4811"	88°13'46.7613"	2556918.64	625915.58	0.29
112.032	23°6'57.9218"	88°13'47.4272"	2556901.60	625934.67	0.40
112.052	23°6'57.4850"	88°13'47.9534"	2556888.29	625949.75	0.33
112.072	23°6'57.0478"	88°13'48.4781"	2556874.97	625964.79	0.55
112.103	23°6'56.3761"	88°13'49.2945"	2556854.51	625988.19	0.80
112.130	23°6'55.7846"	88°13'50.0150"	2556836.49	626008.84	0.79
112.150	23°6'55.3487"	88°13'50.5401"	2556823.21	626023.89	0.68
112.181	23°6'54.7200"	88°13'51.3949"	2556804.08	626048.37	0.92
112.202	23°6'54.3132"	88°13'51.9484"	2556791.70	626064.22	0.83
112.222	23°6'53.9063"	88°13'52.5015"	2556779.32	626080.06	0.50
112.242	23°6'53.5224"	88°13'53.0731"	2556767.65	626096.42	0.79
112.262	23°6'53.1372"	88°13'53.6443"	2556755.94	626112.77	0.93
112.284	23°6'52.7233"	88°13'54.2719"	2556743.36	626130.73	0.86
112.315	23°6'52.1321"	88°13'55.1576"	2556725.39	626156.08	0.83
112.353	23°6'51.3901"	88°13'56.2430"	2556702.83	626187.15	0.78
112.388	23°6'50.7424"	88°13'57.2417"	2556683.15	626215.73	0.49
112.408	23°6'50.3407"	88°13'57.7994"	2556670.93	626231.70	0.45
112.428	23°6'49.9339"	88°13'58.3525"	2556658.55	626247.54	0.61

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
112.459	23°6'49.2771"	88°13'59.1821"	2556638.55	626271.31	0.48
112.487	23°6'48.8187"	88°14'0.0071"	2556624.65	626294.90	0.50
112.521	23°6'48.2492"	88°14'1.0607"	2556607.39	626325.02	0.85
112.542	23°6'47.9218"	88°14'1.6869"	2556597.47	626342.92	0.59
112.571	23°6'47.4375"	88°14'2.5768"	2556582.79	626368.36	0.81
112.593	23°6'47.0722"	88°14'3.2227"	2556571.71	626386.83	0.70
112.618	23°6'46.6610"	88°14'3.9990"	2556559.25	626409.02	0.69
112.640	23°6'46.3086"	88°14'4.6527"	2556548.57	626427.71	0.63
112.665	23°6'45.8644"	88°14'5.4080"	2556535.09	626449.31	0.71
112.687	23°6'45.5185"	88°14'6.0663"	2556524.61	626468.13	0.78
112.708	23°6'45.1768"	88°14'6.7272"	2556514.26	626487.02	0.93
112.745	23°6'44.5859"	88°14'7.8681"	2556496.36	626519.63	0.89
112.767	23°6'44.2412"	88°14'8.5272"	2556485.92	626538.47	0.79
112.789	23°6'43.9015"	88°14'9.1895"	2556475.63	626557.40	0.42
112.810	23°6'43.5799"	88°14'9.8608"	2556465.90	626576.58	0.63
112.834	23°6'43.1473"	88°14'10.5420"	2556452.76	626596.07	0.80
112.861	23°6'42.6594"	88°14'11.3481"	2556437.95	626619.13	0.89
112.882	23°6'42.2786"	88°14'11.9836"	2556426.39	626637.31	0.87

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
112.912	23°6'41.7228"	88°14'12.8229"	2556409.50	626661.33	0.86
112.933	23°6'41.3400"	88°14'13.4570"	2556397.88	626679.47	0.93
112.957	23°6'40.9181"	88°14'14.1460"	2556385.07	626699.18	0.94
112.998	23°6'40.1807"	88°14'15.3513"	2556362.68	626733.66	0.93
113.020	23°6'39.7940"	88°14'15.9829"	2556350.94	626751.73	0.75
113.041	23°6'39.4332"	88°14'16.6299"	2556340.00	626770.23	0.59
113.063	23°6'38.9977"	88°14'17.2249"	2556326.75	626787.27	0.52
113.098	23°6'38.2803"	88°14'18.1906"	2556304.92	626814.93	0.82
113.127	23°6'37.6784"	88°14'18.9925"	2556286.60	626837.90	0.63
113.149	23°6'37.2519"	88°14'19.5928"	2556273.63	626855.09	0.40
113.170	23°6'36.8213"	88°14'20.1900"	2556260.53	626872.19	0.60
113.194	23°6'36.3357"	88°14'20.8277"	2556245.75	626890.46	0.72
113.215	23°6'35.8686"	88°14'21.3908"	2556231.52	626906.60	0.89
113.241	23°6'35.2884"	88°14'22.0294"	2556213.83	626924.92	0.65
113.273	23°6'34.6650"	88°14'22.9548"	2556194.88	626951.41	0.84
113.297	23°6'34.2033"	88°14'23.6543"	2556180.85	626971.43	0.92
113.318	23°6'33.8117"	88°14'24.2483"	2556168.95	626988.43	0.58
113.340	23°6'33.4001"	88°14'24.8727"	2556156.44	627006.30	0.62

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
113.369	23°6'32.8482"	88°14'25.7095"	2556139.67	627030.25	0.63
113.389	23°6'32.4656"	88°14'26.2824"	2556128.04	627046.65	0.73
113.409	23°6'32.0755"	88°14'26.8486"	2556116.18	627062.86	0.63
113.430	23°6'31.6383"	88°14'27.3740"	2556102.86	627077.92	0.62
113.452	23°6'31.1755"	88°14'27.9603"	2556088.77	627094.72	0.62
113.488	23°6'30.3818"	88°14'28.9168"	2556064.59	627122.14	0.69
113.508	23°6'29.9546"	88°14'29.4514"	2556051.58	627137.46	0.81
113.528	23°6'29.5193"	88°14'29.9781"	2556038.32	627152.56	0.87
113.548	23°6'29.0901"	88°14'30.5116"	2556025.25	627167.85	0.81
113.568	23°6'28.6658"	88°14'31.0491"	2556012.33	627183.25	0.59
113.589	23°6'28.2415"	88°14'31.5868"	2555999.41	627198.66	0.56
113.614	23°6'27.7058"	88°14'32.2747"	2555983.10	627218.37	0.51
113.634	23°6'27.2785"	88°14'32.8086"	2555970.09	627233.67	0.51
113.654	23°6'26.8668"	88°14'33.3577"	2555957.56	627249.40	0.55
113.674	23°6'26.4363"	88°14'33.8894"	2555944.45	627264.64	0.85
113.711	23°6'25.6729"	88°14'34.8747"	2555921.21	627292.87	0.90
113.733	23°6'25.2241"	88°14'35.4734"	2555907.55	627310.02	0.94
113.753	23°6'24.8127"	88°14'36.0218"	2555895.03	627325.73	0.88

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
113.782	23°6'24.2065"	88°14'36.8145"	2555876.58	627348.44	0.88
113.802	23°6'23.7913"	88°14'37.3597"	2555863.94	627364.06	0.87
113.839	23°6'23.0427"	88°14'38.3578"	2555841.16	627392.65	0.87
113.870	23°6'22.4166"	88°14'39.2139"	2555822.11	627417.17	0.91
113.892	23°6'21.9822"	88°14'39.8257"	2555808.90	627434.69	0.89
113.914	23°6'21.5501"	88°14'40.4383"	2555795.76	627452.23	0.91
113.938	23°6'21.0793"	88°14'41.1007"	2555781.44	627471.20	0.83
113.969	23°6'20.4709"	88°14'41.9725"	2555762.94	627496.16	0.72
113.989	23°6'20.0659"	88°14'42.5276"	2555750.62	627512.06	0.61
114.009	23°6'19.6581"	88°14'43.0796"	2555738.21	627527.87	0.57
114.045	23°6'18.9079"	88°14'44.0762"	2555715.38	627556.42	0.54
114.066	23°6'18.4952"	88°14'44.6239"	2555702.82	627572.11	0.70
114.089	23°6'18.0098"	88°14'45.2739"	2555688.05	627590.73	0.89
114.115	23°6'17.4912"	88°14'45.9763"	2555672.27	627610.85	0.86
114.135	23°6'17.1024"	88°14'46.5450"	2555660.45	627627.13	0.65
114.168	23°6'16.4730"	88°14'47.4794"	2555641.32	627653.88	0.75
114.192	23°6'16.0135"	88°14'48.1514"	2555627.35	627673.12	0.81
114.212	23°6'15.6247"	88°14'48.7190"	2555615.53	627689.37	0.71

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
114.245	23°6'14.9966"	88°14'49.6552"	2555596.44	627716.17	0.73
114.265	23°6'14.5642"	88°14'50.1848"	2555583.27	627731.35	0.79
114.290	23°6'14.0203"	88°14'50.8652"	2555566.71	627750.85	0.85
114.310	23°6'13.5879"	88°14'51.3951"	2555553.54	627766.04	0.73
114.347	23°6'12.8109"	88°14'52.3672"	2555529.88	627793.90	0.90
114.378	23°6'12.1738"	88°14'53.2130"	2555510.49	627818.13	0.89
114.398	23°6'11.7805"	88°14'53.7777"	2555498.53	627834.30	0.69
114.418	23°6'11.3975"	88°14'54.3499"	2555486.89	627850.68	0.59
114.438	23°6'11.0070"	88°14'54.9168"	2555475.02	627866.91	0.64
114.458	23°6'10.6176"	88°14'55.4840"	2555463.18	627883.15	0.74
114.484	23°6'10.1286"	88°14'56.2116"	2555448.32	627903.98	0.79
114.504	23°6'9.7285"	8°14'56.7703"	2555436.15	627919.98	0.68
114.524	23°6'9.3206"	8°14'57.3226"	2555423.74	627935.80	0.52
114.544	23°6'8.9047"	8°14'57.8678"	2555411.08	627951.42	0.60
114.566	23°6'8.4529"	8°14'58.4643"	2555397.33	627968.51	0.63
114.586	23°6'8.0460"	8°14'59.0173"	2555384.95	627984.35	0.69
114.608	23°6'7.5906"	8°14'59.6103"	2555371.09	628001.34	0.79
114.630	23°6'7.1689"	8°15'0.2317"	2555358.27	628019.13	0.81

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
114.667	23°6'6.4639"	8°15'1.2663"	2555336.84	628048.75	0.77
114.689	23°6'6.0761"	8°15'1.9066"	2555325.07	628067.07	0.69
114.709	23°6'5.7850"	8°15'2.5390"	2555316.27	628085.14	0.56
114.729	23°6'5.4990"	8°15'3.1743"	2555307.63	628103.29	0.52
114.754	23°6'5.1181"	8°15'3.9740"	2555296.11	628126.14	0.54
114.774	23°6'4.8247"	8°15'4.6053"	2555287.24	628144.18	0.50
114.795	23°6'4.5566"	8°15'5.2489"	2555279.15	628162.56	0.62
114.829	23°6'4.1470"	8°15'6.3867"	2555266.83	628195.04	0.68
114.849	23°6'3.8986"	8°15'7.0399"	2555259.35	628213.69	0.56
114.870	23°6'3.6214"	8°15'7.6788"	2555250.98	628231.94	0.46
114.890	23°6'3.2662"	8°15'8.2717"	2555240.20	628248.90	0.44
114.917	23°6'2.7743"	8°15'9.0752"	2555225.27	628271.89	0.46
114.937	23°6'2.4120"	8°15'9.6637"	2555214.27	628288.73	0.37
114.957	23°6'2.0506"	8°15'10.2522"	2555203.30	628305.57	0.73
114.983	23°6'1.5982"	8°15'11.0069"	2555189.57	628327.16	0.93
115.003	23°6'1.2472"	8°15'11.6029"	2555178.92	628344.21	0.79
115.023	23°6'0.8914"	8°15'12.1957"	2555168.12	628361.17	0.57
115.043	23°6'0.5361"	8°15'12.7889"	2555157.34	628378.14	0.77

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
115.076	23°5'59.9584"	88°15'13.7621"	2555139.81	628405.98	0.88
115.096	23°5'59.6055"	88°15'14.3567"	2555129.10	628422.99	0.84
115.116	23°5'59.2557"	88°15'14.9538"	2555118.49	628440.07	0.85
115.136	23°5'58.8869"	88°15'15.5370"	2555107.29	628456.76	0.80
115.157	23°5'58.5120"	88°15'16.1159"	2555095.90	628473.33	0.74
115.177	23°5'58.1416"	88°15'16.6980"	2555084.65	628489.99	0.38
115.197	23°5'57.7666"	88°15'17.2769"	2555073.26	628506.56	0.31
115.227	23°5'57.2178"	88°15'18.1407"	2555056.59	628531.28	0.32
115.248	23°5'56.8246"	88°15'18.7592"	2555044.65	628548.98	0.29
115.282	23°5'56.2015"	88°15'19.7628"	2555025.73	628577.70	0.29
115.303	23°5'55.8290"	88°15'20.3548"	2555014.42	628594.64	0.38
115.325	23°5'55.4460"	88°15'21.0046"	2555002.80	628613.23	0.45
115.345	23°5'55.1104"	88°15'21.6219"	2554992.63	628630.88	0.53
115.365	23°5'54.7645"	88°15'22.2323"	2554982.14	628648.34	0.76
115.389	23°5'54.3839"	88°15'22.9479"	2554970.61	628668.80	0.63
115.425	23°5'53.7806"	88°15'24.0330"	2554952.32	628699.83	0.73
115.447	23°5'53.4037"	88°15'24.6874"	2554940.89	628718.55	0.65
115.480	23°5'52.8373"	88°15'25.6684"	2554923.71	628746.61	0.74

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
115.503	23°5'52.4357"	88°15'26.3711"	2554911.53	628766.71	0.93
115.523	23°5'52.1137"	88°15'26.9962"	2554901.78	628784.58	0.85
115.561	23°5'51.4035"	88°15'28.0715"	2554880.20	628815.36	0.94
115.581	23°5'51.0284"	88°15'28.6613"	2554868.81	628832.24	0.80
115.602	23°5'50.6359"	88°15'29.2379"	2554856.88	628848.75	0.86
115.624	23°5'50.2119"	88°15'29.8578"	2554843.99	628866.50	0.90
115.647	23°5'49.7631"	88°15'30.5260"	2554830.35	628885.63	0.68
115.668	23°5'49.3783"	88°15'31.1087"	2554818.66	628902.31	0.60
115.693	23°5'48.8966"	88°15'31.8191"	2554804.02	628922.65	0.61
115.713	23°5'48.5116"	88°15'32.4018"	2554792.32	628939.33	0.57
115.733	23°5'48.1217"	88°15'32.9798"	2554780.47	628955.88	0.56
115.760	23°5'47.5810"	88°15'33.7111"	2554764.02	628976.83	0.59
115.780	23°5'47.1701"	88°15'34.2721"	2554751.52	628992.90	0.58
115.801	23°5'46.7582"	88°15'34.8324"	2554738.99	629008.95	0.57
115.831	23°5'46.1137"	88°15'35.6116"	2554719.36	629031.29	0.58
115.870	23°5'45.2405"	88°15'36.6136"	2554692.75	629060.03	0.66
115.890	23°5'44.7770"	88°15'37.1241"	2554678.62	629074.68	0.59
115.918	23°5'44.1389"	88°15'37.8359"	2554659.17	629095.10	0.71

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
115.939	23°5'43.6912"	88°15'38.3635"	2554645.53	629110.23	0.54
115.970	23°5'42.9809"	88°15'39.1526"	2554623.88	629132.87	0.72
115.990	23°5'42.5207"	88°15'39.6671"	2554609.85	629147.63	0.65
116.017	23°5'41.9244"	88°15'40.3462"	2554591.68	629167.11	0.65
116.042	23°5'41.3443"	88°15'40.9636"	2554573.99	629184.83	0.75
116.070	23°5'40.6573"	88°15'41.6200"	2554553.02	629203.69	0.71
116.091	23°5'40.1618"	88°15'42.0948"	2554537.90	629217.33	0.67
116.111	23°5'39.6655"	88°15'42.5692"	2554522.75	629230.96	0.65
116.134	23°5'39.0937"	88°15'43.1167"	2554505.30	629246.69	0.66
116.172	23°5'38.1679"	88°15'43.9801"	2554477.04	629271.50	0.80
116.192	23°5'37.6664"	88°15'44.4467"	2554461.73	629284.91	0.75
116.213	23°5'37.1691"	88°15'44.9197"	2554446.55	629298.50	0.76
116.233	23°5'36.6566"	88°15'45.3729"	2554430.90	629311.53	0.79
116.253	23°5'36.1406"	88°15'45.8207"	2554415.14	629324.41	0.88
116.277	23°5'35.5431"	88°15'46.3357"	2554396.89	629339.22	0.89
116.297	23°5'35.0174"	88°15'46.7715"	2554380.83	629351.76	0.82
116.322	23°5'34.3671"	88°15'47.3017"	2554360.96	629367.02	0.87
116.354	23°5'33.6294"	88°15'48.0600"	2554338.46	629388.79	0.83

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
116.383	23°5'32.9282"	88°15'48.7810"	2554317.07	629409.49	0.76
116.404	23°5'32.4479"	88°15'49.2738"	2554302.42	629423.64	0.85
116.424	23°5'31.9676"	88°15'49.7663"	2554287.77	629437.78	0.80
116.448	23°5'31.4191"	88°15'50.3410"	2554271.04	629454.28	0.80
116.479	23°5'30.6817"	88°15'51.1014"	2554248.55	629476.11	0.83
116.499	23°5'30.2030"	88°15'51.5967"	2554233.95	629490.33	0.68
116.520	23°5'29.7305"	88°15'52.0984"	2554219.54	629504.73	0.72
116.556	23°5'28.8881"	88°15'52.9779"	2554193.85	629529.98	0.71
116.576	23°5'28.4101"	88°15'53.4732"	2554179.27	629544.20	0.61
116.596	23°5'27.9266"	88°15'53.9607"	2554164.52	629558.20	0.71
116.623	23°5'27.2982"	88°15'54.6051"	2554145.35	629576.70	0.81
116.650	23°5'26.6797"	88°15'55.2600"	2554126.49	629595.50	0.70
116.670	23°5'26.2001"	88°15'55.7521"	2554111.86	629609.63	0.81
116.697	23°5'25.6151"	88°15'56.4422"	2554094.04	629629.42	0.65
116.728	23°5'24.9268"	88°15'57.2546"	2554073.07	629652.72	0.65
116.748	23°5'24.4794"	88°15'57.7822"	2554059.44	629667.85	0.76
116.777	23°5'23.8513"	88°15'58.5038"	2554040.30	629688.55	0.71
116.810	23°5'23.1456"	88°15'59.3629"	2554018.81	629713.18	0.49

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
116.833	23°5'22.7551"	88°16'0.0579"	2554006.97	629733.06	0.57
116.854	23°5'22.4046"	88°16'0.6651"	2553996.34	629750.43	0.61
116.879	23°5'21.9785"	88°16'1.4160"	2553983.42	629771.91	0.62
116.899	23°5'21.6331"	88°16'2.0264"	2553972.95	629789.37	0.60
116.919	23°5'21.2545"	88°16'2.6130"	2553961.45	629806.16	0.56
116.948	23°5'20.7220"	88°16'3.4198"	2553945.27	629829.26	0.62
116.968	23°5'20.3372"	88°16'4.0024"	2553933.58	629845.94	0.57
116.991	23°5'19.8951"	88°16'4.6759"	2553920.15	629865.22	0.73
117.012	23°5'19.4596"	88°16'5.2144"	2553906.89	629880.66	0.68
117.037	23°5'18.9169"	88°16'5.8711"	2553890.36	629899.49	0.61
117.057	23°5'18.4663"	88°16'6.3958"	2553876.63	629914.54	0.58
117.078	23°5'18.0240"	88°16'6.9284"	2553863.16	629929.81	0.69
117.107	23°5'17.3814"	88°16'7.7103"	2553843.59	629952.23	0.61
117.129	23°5'16.8953"	88°16'8.2747"	2553828.78	629968.42	0.63
117.150	23°5'16.4302"	88°16'8.8190"	2553814.61	629984.03	0.57
117.186	23°5'15.6497"	88°16'9.7388"	2553790.83	630010.41	0.23
117.234	23°5'14.6116"	88°16'11.0136"	2553759.22	630046.96	0.50
117.265	23°5'13.9794"	88°16'11.8427"	2553739.98	630070.72	0.52

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
117.293	23°5'13.4316"	88°16'12.6381"	2553723.33	630093.50	0.51
117.324	23°5'12.8348"	88°16'13.5104"	2553705.19	630118.48	0.56
117.356	23°5'12.1986"	88°16'14.4249"	2553685.85	630144.67	0.58
117.377	23°5'11.7864"	88°16'14.9851"	2553673.31	630160.72	0.57
117.397	23°5'11.3564"	88°16'15.5293"	2553660.22	630176.32	0.57
117.421	23°5'10.8482"	88°16'16.1722"	2553644.75	630194.75	0.64
117.443	23°5'10.4015"	88°16'16.7732"	2553631.16	630211.97	0.66
117.474	23°5'9.7818"	8°16'17.6175"	2553612.31	630236.16	0.62
117.495	23°5'9.3088"	8°16'18.1754"	2553597.90	630252.16	0.53
117.525	23°5'8.7794"	8°16'19.0297"	2553581.83	630276.61	0.64
117.546	23°5'8.4346"	8°16'19.6886"	2553571.39	630295.45	0.62
117.568	23°5'8.1258"	8°16'20.3682"	2553562.06	630314.87	0.59
117.607	23°5'7.5459"	8°16'21.5931"	2553544.53	630349.88	0.60
117.628	23°5'7.2157"	8°16'22.2613"	2553534.54	630368.98	0.63
117.650	23°5'6.9030"	8°16'22.9380"	2553525.09	630388.32	0.55
117.672	23°5'6.5822"	8°16'23.6112"	2553515.39	630407.56	0.50
117.705	23°5'6.0767"	8°16'24.6456"	2553500.10	630437.13	0.49
117.726	23°5'5.7763"	8°16'25.3295"	2553491.03	630456.67	0.44

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
117.748	23°5'5.5086"	8°16'26.0285"	2553482.97	630476.63	0.40
117.775	23°5'5.1957"	8°16'26.9301"	2553473.57	630502.37	0.41
117.797	23°5'4.9665"	8°16'27.6460"	2553466.70	630522.80	0.44
117.830	23°5'4.6065"	8°16'28.7489"	2553455.90	630554.28	0.44
117.852	23°5'4.2996"	8°16'29.4289"	2553446.63	630573.71	0.30
117.873	23°5'3.9991"	8°16'30.1128"	2553437.56	630593.25	0.24
117.897	23°5'3.6570"	8°16'30.8507"	2553427.22	630614.34	0.28
117.918	23°5'3.3552"	8°16'31.5342"	2553418.11	630633.87	0.40
117.959	23°5'2.7858"	8°16'32.8415"	2553400.92	630671.22	0.46
117.981	23°5'2.4811"	8°16'33.5232"	2553391.72	630690.70	0.57
118.008	23°5'2.0694"	8°16'34.3776"	2553379.27	630715.12	0.36
118.040	23°5'1.6380"	8°16'35.3754"	2553366.25	630743.63	0.43
118.061	23°5'1.3557"	8°16'36.0683"	2553357.74	630763.42	0.38
118.083	23°5'1.0812"	8°16'36.7643"	2553349.47	630783.30	0.35
118.118	23°5'0.6078"	8°16'37.8908"	2553335.19	630815.48	0.67
118.155	23°5'0.1286"	8°16'39.0913"	2553320.75	630849.77	0.72
118.184	23°4'59.7169"	88°16'40.0230"	2553308.32	630876.39	0.65
118.206	23°4'59.4155"	88°16'40.7065"	2553299.22	630895.92	0.30

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
118.228	23°4'59.1063"	88°16'41.3857"	2553289.88	630915.33	0.41
118.269	23°4'58.4601"	88°16'42.6504"	2553270.32	630951.49	0.40
118.296	23°4'58.0736"	88°16'43.5187"	2553258.65	630976.30	0.42
118.318	23°4'57.7608"	88°16'44.1961"	2553249.20	630995.66	0.53
118.355	23°4'57.2055"	88°16'45.3576"	2553232.41	631028.86	0.76
118.376	23°4'56.8898"	88°16'46.0332"	2553222.87	631048.17	0.73
118.400	23°4'56.5354"	88°16'46.7647"	2553212.15	631069.08	0.81
118.423	23°4'56.1708"	88°16'47.4908"	2553201.12	631089.84	0.79
118.455	23°4'55.7016"	88°16'48.4630"	2553186.93	631117.63	0.60
118.475	23°4'55.4178"	88°16'49.0989"	2553178.36	631135.80	0.70
118.497	23°4'55.0884"	88°16'49.7825"	2553168.40	631155.34	0.56
118.524	23°4'54.6767"	88°16'50.6375"	2553155.95	631179.78	0.83
118.544	23°4'54.3909"	88°16'51.2726"	2553147.32	631197.93	0.81
118.564	23°4'54.1081"	88°16'51.9092"	2553138.78	631216.12	0.40
118.599	23°4'53.6082"	88°16'53.0027"	2553123.68	631247.37	0.51
118.619	23°4'53.3066"	88°16'53.6303"	2553114.56	631265.31	0.32
118.641	23°4'52.9937"	88°16'54.3232"	2553105.11	631285.11	0.31
118.661	23°4'52.6824"	88°16'54.9447"	2553095.69	631302.88	0.30

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
118.681	23°4'52.3756"	88°16'55.5681"	2553086.41	631320.70	0.29
118.709	23°4'52.0377"	88°16'56.4596"	2553076.24	631346.16	0.34
118.729	23°4'51.7824"	88°16'57.1095"	2553068.55	631364.72	0.55
118.756	23°4'51.4273"	88°16'57.9931"	2553057.85	631389.96	0.73
118.776	23°4'51.1947"	88°16'58.6533"	2553050.86	631408.81	0.75
118.805	23°4'50.8393"	88°16'59.6066"	2553040.17	631436.03	0.72
118.829	23°4'50.5534"	88°17'0.3819"	2553031.57	631458.17	0.83
118.853	23°4'50.2160"	88°17'1.1332"	2553021.38	631479.64	0.80
118.891	23°4'49.6768"	88°17'2.3483"	2553005.10	631514.36	0.87
118.919	23°4'49.3068"	88°17'3.2255"	2552993.94	631539.42	0.82
118.939	23°4'49.0356"	88°17'3.8685"	2552985.76	631557.79	0.81
118.959	23°4'48.7583"	88°17'4.5072"	2552977.39	631576.04	0.77
118.979	23°4'48.4764"	88°17'5.1459"	2552968.88	631594.29	0.40
119.016	23°4'47.9364"	88°17'6.2902"	2552952.56	631627.00	0.41
119.036	23°4'47.6513"	88°17'6.9254"	2552943.95	631645.15	0.49
119.056	23°4'47.3701"	88°17'7.5634"	2552935.46	631663.38	0.42
119.076	23°4'47.0736"	88°17'8.1935"	2552926.50	631681.39	0.41
119.114	23°4'46.5061"	88°17'9.3720"	2552909.34	631715.08	0.36

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
119.135	23°4'46.1924"	88°17'10.0403"	2552899.86	631734.18	0.49
119.156	23°4'45.8909"	88°17'10.6939"	2552890.75	631752.86	0.85
119.180	23°4'45.5472"	88°17'11.4490"	2552880.37	631774.44	0.62
119.200	23°4'45.2914"	88°17'12.1171"	2552872.67	631793.52	0.45
119.221	23°4'44.9935"	88°17'12.7647"	2552863.67	631812.03	0.24
119.247	23°04'45.5046"	88°17'14.0460"	2552879.71	631848.35	11.64
119.264	23°04'45.1999"	88°17'14.6538"	2552870.49	631865.73	11.49
119.284	23°04'44.8717"	88°17'15.2597"	2552860.55	631883.06	11.58
119.304	23°04'44.5355"	88°17'15.8568"	2552850.36	631900.14	11.67
119.326	23°04'44.2294"	88°17'16.4720"	2552841.10	631917.73	11.65
119.346	23°04'43.9460"	88°17'17.1005"	2552832.54	631935.69	11.55
119.365	23°4'42.7657"	88°17'17.2164"	2552796.27	631939.31	0.29
119.366	23°04'43.6625"	88°17'17.7289"	2552823.98	631953.65	11.57
119.385	23°4'42.5709"	88°17'17.9030"	2552790.45	631958.90	0.61
119.393	23°04'43.4028"	88°17'18.3661"	2552816.15	631971.85	11.77
119.412	23°4'42.4091"	88°17'18.8426"	2552785.71	631985.68	0.54
119.413	23°04'43.2749"	88°17'19.0512"	2552812.39	631991.38	11.85
119.433	23°04'43.1467"	88°17'19.7366"	2552808.62	632010.92	11.45

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
119.434	23°4'42.2812"	88°17'19.5734"	2552781.96	632006.51	0.51
119.453	23°04'43.0189"	88°17'20.4221"	2552804.86	632030.46	11.98
119.462	23°4'42.0947"	88°17'20.5633"	2552776.47	632034.73	0.32
119.476	23°04'42.8911"	88°17'21.1072"	2552801.10	632049.99	11.46
119.496	23°04'42.8288"	88°17'21.8028"	2552799.36	632069.80	11.67
119.515	23°04'42.7708"	88°17'22.4991"	2552797.75	632089.63	11.56
119.535	23°04'42.7053"	88°17'23.1869"	2552795.91	632109.22	11.99
119.555	23°04'42.6596"	88°17'23.8921"	2552794.68	632129.30	11.76
119.575	23°04'42.6103"	88°17'24.5893"	2552793.34	632149.15	11.67
119.595	23°04'42.5597"	88°17'25.2863"	2552791.96	632169.00	11.46
119.614	23°04'42.5092"	88°17'25.9831"	2552790.58	632188.84	11.77
119.634	23°04'42.4463"	88°17'26.6790"	2552788.82	632208.66	11.58
119.654	23°04'42.3749"	88°17'27.3738"	2552786.80	632228.45	11.97
119.674	23°04'42.3036"	88°17'28.0686"	2552784.78	632248.24	11.77
119.696	23°04'42.2380"	88°17'28.7638"	2552782.94	632268.04	11.57
119.716	23°04'42.2167"	88°17'29.4626"	2552782.46	632287.93	11.45
119.736	23°04'42.2015"	88°17'30.1698"	2552782.17	632308.06	11.74
119.756	23°04'42.1708"	88°17'30.8601"	2552781.40	632327.71	11.57

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
119.768	23°04'42.0836"	88°17'31.5459"	2552778.89	632347.25	11.77
119.787	23°04'41.8756"	88°17'32.2081"	2552772.66	632366.15	11.67
119.807	23°04'41.6680"	88°17'32.8700"	2552766.44	632385.04	11.57
119.827	23°04'41.4603"	88°17'33.5322"	2552760.22	632403.94	11.46
119.841	23°04'41.2212"	88°17'34.1786"	2552753.03	632422.40	11.87
119.861	23°04'40.8912"	88°17'34.7799"	2552743.03	632439.60	11.86
119.881	23°04'40.5608"	88°17'35.3812"	2552733.02	632456.80	11.66
119.901	23°04'40.2307"	88°17'35.9825"	2552723.02	632474.00	11.46
119.921	23°04'39.9007"	88°17'36.5834"	2552713.02	632491.19	11.66
119.940	23°04'39.5493"	88°17'37.1648"	2552702.36	632507.83	11.76
119.950	23°04'39.0408"	88°17'37.5993"	2552686.83	632520.33	11.89
119.970	23°04'38.5481"	88°17'38.0507"	2552671.79	632533.31	11.77
119.990	23°04'38.0473"	88°17'38.4933"	2552656.50	632546.04	11.57
120.010	23°04'37.5469"	88°17'38.9362"	2552641.22	632558.78	11.68
120.029	23°04'37.0542"	88°17'39.3873"	2552626.18	632571.75	11.84
120.049	23°04'36.5456"	88°17'39.8217"	2552610.65	632584.25	11.77
120.070	23°04'36.0590"	88°17'40.2812"	2552595.80	632597.46	11.74
120.090	23°04'35.5715"	88°17'40.7401"	2552580.92	632610.65	11.94

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
120.110	23°04'35.0758"	88°17'41.1908"	2552565.79	632623.61	11.87
120.130	23°04'34.5879"	88°17'41.6500"	2552550.90	632636.81	11.67
120.155	23°04'34.1232"	88°17'42.1326"	2552536.73	632650.67	11.58
120.175	23°04'33.7234"	88°17'42.6822"	2552524.57	632666.42	11.95
120.195	23°04'33.3158"	88°17'43.2234"	2552512.17	632681.93	11.69
120.215	23°04'32.9317"	88°17'43.7901"	2552500.50	632698.16	11.44
120.236	23°04'32.5454"	88°17'44.3486"	2552488.76	632714.16	11.68
120.256	23°04'32.1758"	88°17'44.9249"	2552477.54	632730.66	11.94
120.276	23°04'31.7908"	88°17'45.4842"	2552465.84	632746.68	11.55
120.303	23°04'31.4961"	88°17'46.1016"	2552456.93	632764.33	11.86
120.323	23°04'31.2485"	88°17'46.7476"	2552449.48	632782.78	11.68
120.343	23°04'31.0010"	88°17'47.3936"	2552442.03	632801.23	11.75
120.363	23°04'30.7535"	88°17'48.0396"	2552434.58	632819.68	11.58
120.375	23°04'30.5004"	88°17'48.6820"	2552426.96	632838.03	11.55
120.401	23°04'30.1995"	88°17'49.2983"	2552417.86	632855.65	11.58
120.421	23°04'29.9225"	88°17'49.9303"	2552409.50	632873.71	11.57
120.441	23°04'29.6455"	88°17'50.5620"	2552401.14	632891.76	11.68
120.461	23°04'29.3762"	88°17'51.2025"	2552393.02	632910.06	11.74

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
120.480	23°04'29.0837"	88°17'51.8167"	2552384.18	632927.62	11.79
120.502	23°04'28.8203"	88°17'52.4601"	2552376.24	632946.00	11.46
120.522	23°04'28.5708"	88°17'53.1050"	2552368.73	632964.42	11.95
120.541	23°04'28.3213"	88°17'53.7499"	2552361.22	632982.84	11.77
120.561	23°04'28.0641"	88°17'54.3867"	2552353.47	633001.03	11.79
120.581	23°04'27.8227"	88°17'55.0401"	2552346.21	633019.69	11.56
120.601	23°04'27.5809"	88°17'55.6939"	2552338.94	633038.36	11.64
120.621	23°04'27.3221"	88°17'56.3295"	2552331.14	633056.52	11.85
120.641	23°04'27.0710"	88°17'56.9737"	2552323.58	633074.92	11.45
120.661	23°04'26.8202"	88°17'57.6183"	2552316.03	633093.33	11.85
120.681	23°04'26.5691"	88°17'58.2625"	2552308.47	633111.73	11.66
120.701	23°04'26.3180"	88°17'58.9070"	2552300.91	633130.14	11.66
120.720	23°04'26.0672"	88°17'59.5512"	2552293.36	633148.54	11.87
120.740	23°04'25.8161"	88°18'00.1957"	2552285.80	633166.95	11.47
120.760	23°04'25.5650"	88°18'00.8399"	2552278.24	633185.35	11.87
120.780	23°04'25.3142"	88°18'01.4841"	2552270.69	633203.75	11.68
120.800	23°04'25.0631"	88°18'02.1286"	2552263.13	633222.16	11.68
120.820	23°04'24.8042"	88°18'02.7643"	2552255.33	633240.32	11.89

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
120.840	23°04'24.5534"	88°18'03.4085"	2552247.78	633258.72	11.49
120.860	23°04'24.3101"	88°18'04.0615"	2552240.46	633277.37	11.88
120.880	23°04'24.0589"	88°18'04.7060"	2552232.90	633295.78	11.68
120.897	23°04'23.8010"	88°18'05.3466"	2552225.13	633314.08	11.58
120.917	23°04'23.5168"	88°18'05.9789"	2552216.55	633332.15	11.44
120.937	23°04'23.2169"	88°18'06.5941"	2552207.48	633349.74	11.67
120.957	23°04'22.9249"	88°18'07.2182"	2552198.66	633367.58	11.88
120.977	23°04'22.6330"	88°18'07.8420"	2552189.84	633385.41	11.87
120.997	23°04'22.3411"	88°18'08.4657"	2552181.02	633403.24	11.77
121.017	23°04'22.0492"	88°18'09.0895"	2552172.20	633421.07	11.58
121.037	23°04'21.7573"	88°18'09.7136"	2552163.38	633438.91	11.77
121.057	23°04'21.4650"	88°18'10.3373"	2552154.55	633456.74	11.66
121.079	23°04'21.2071"	88°18'10.9776"	2552146.78	633475.03	11.56
121.099	23°04'20.9686"	88°18'11.6275"	2552139.61	633493.59	11.85
121.119	23°04'20.7298"	88°18'12.2770"	2552132.43	633512.14	11.67
121.139	23°04'20.4910"	88°18'12.9270"	2552125.25	633530.70	11.56
121.159	23°04'20.2522"	88°18'13.5765"	2552118.07	633549.25	11.78
121.179	23°04'20.0134"	88°18'14.2264"	2552110.89	633567.81	11.67

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
121.198	23°04'19.7668"	88°18'14.8675"	2552103.47	633586.12	11.89
121.219	23°04'19.5438"	88°18'15.5344"	2552096.78	633605.16	11.44
121.238	23°04'19.2972"	88°18'16.1754"	2552089.36	633623.47	11.98
121.258	23°04'19.0584"	88°18'16.8254"	2552082.18	633642.03	11.55
121.278	23°04'18.8196"	88°18'17.4749"	2552075.00	633660.58	11.85
121.296	23°04'18.5630"	88°18'18.1162"	2552067.27	633678.90	11.77
121.316	23°04'18.2721"	88°18'18.7361"	2552058.48	633696.62	11.79
121.336	23°04'17.9966"	88°18'19.3733"	2552050.17	633714.83	11.75
121.355	23°04'17.7134"	88°18'20.0017"	2552041.62	633732.79	11.66
121.375	23°04'17.4299"	88°18'20.6301"	2552033.06	633750.75	11.68
121.395	23°04'17.1544"	88°18'21.2674"	2552024.75	633768.96	11.64
121.415	23°04'16.8635"	88°18'21.8872"	2552015.96	633786.68	11.55
121.435	23°04'16.5803"	88°18'22.5156"	2552007.41	633804.64	11.57
121.455	23°04'16.2968"	88°18'23.1444"	2551998.85	633822.61	11.87
121.475	23°04'16.0136"	88°18'23.7727"	2551990.30	633840.57	11.88
121.496	23°04'15.7427"	88°18'24.4072"	2551982.13	633858.70	11.57
121.516	23°04'15.4903"	88°18'25.0510"	2551974.53	633877.09	11.55
121.536	23°04'15.2379"	88°18'25.6948"	2551966.93	633895.48	11.98

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
121.556	23°04'14.9777"	88°18'26.3297"	2551959.09	633913.62	11.79
121.576	23°04'14.7330"	88°18'26.9820"	2551951.73	633932.25	11.77
121.596	23°04'14.4806"	88°18'27.6255"	2551944.13	633950.63	11.56
121.616	23°04'14.2281"	88°18'28.2693"	2551936.53	633969.02	11.55
121.636	23°04'13.9757"	88°18'28.9130"	2551928.93	633987.41	11.87
121.652	23°04'13.7190"	88°18'29.5543"	2551921.20	634005.73	11.65
121.672	23°04'13.3921"	88°18'30.1577"	2551911.30	634022.99	11.45
121.691	23°04'13.0656"	88°18'30.7610"	2551901.41	634040.25	11.78
121.711	23°04'12.7471"	88°18'31.3733"	2551891.77	634057.76	11.84
121.731	23°04'12.4125"	88°18'31.9681"	2551881.63	634074.78	11.68
121.751	23°04'12.0859"	88°18'32.5715"	2551871.74	634092.04	11.56
121.771	23°04'11.7593"	88°18'33.1748"	2551861.85	634109.30	11.77
121.791	23°04'11.4250"	88°18'33.7697"	2551851.72	634126.32	11.89
121.811	23°04'11.1153"	88°18'34.3873"	2551842.35	634143.98	11.45
121.831	23°04'10.7997"	88°18'34.9974"	2551832.80	634161.43	11.96
121.851	23°04'10.4841"	88°18'35.6079"	2551823.25	634178.89	11.75
121.871	23°04'10.1685"	88°18'36.2180"	2551813.70	634196.34	11.87
121.891	23°04'9.8530"	88°18'36.8285"	2551804.15	634213.80	11.66

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
121.911	23°04'9.5374"	88°18'37.4386"	2551794.60	634231.25	11.78
121.926	23°04'9.1481"	88°18'37.9964"	2551782.77	634247.23	11.76
121.946	23°04'8.7553"	88°18'38.5520"	2551770.83	634263.15	11.67
121.966	23°04'8.3547"	88°18'39.0988"	2551758.65	634278.82	11.59
121.986	23°04'7.9696"	88°18'39.6629"	2551746.95	634294.98	11.48
122.006	23°04'7.5768"	88°18'40.2182"	2551735.01	634310.89	11.76
122.028	23°04'7.2066"	88°18'40.7912"	2551723.77	634327.30	11.77
122.047	23°04'6.8486"	88°18'41.3763"	2551712.91	634344.05	11.74
122.067	23°04'6.4752"	88°18'41.9444"	2551701.57	634360.32	11.85
122.087	23°04'6.1095"	88°18'42.5210"	2551690.47	634376.83	11.76
122.107	23°04'5.7438"	88°18'43.0977"	2551679.37	634393.34	11.87
122.125	23°04'5.3516"	88°18'43.6533"	2551667.45	634409.26	11.78
122.145	23°04'4.9382"	88°18'44.1890"	2551654.87	634424.62	11.79
122.164	23°04'4.5324"	88°18'44.7332"	2551642.53	634440.22	11.99
122.184	23°04'4.1344"	88°18'45.2863"	2551630.43	634456.07	11.58
122.204	23°04'3.7287"	88°18'45.8309"	2551618.09	634471.68	11.58
122.224	23°04'3.3319"	88°18'46.3851"	2551606.03	634487.56	11.84
122.244	23°04'2.9123"	88°18'46.9137"	2551593.26	634502.72	11.49

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
122.264	23°04'02.5159"	88°18'47.4683"	2551581.21	634518.61	11.87
122.302	23°4'1.0014"	8°18'47.8640"	2551534.73	634530.29	0.49
122.340	23°4'0.2086"	8°18'48.8960"	2551510.61	634559.88	0.83
122.360	23°3'59.8010"	88°18'49.4610"	2551498.22	634576.07	0.76
122.398	23°3'59.0446"	88°18'50.4983"	2551475.22	634605.80	0.73
122.418	23°3'58.6254"	88°18'51.0523"	2551462.47	634621.68	0.79
122.441	23°3'58.1374"	88°18'51.6308"	2551447.61	634638.28	0.74
122.462	23°3'57.6703"	88°18'52.1629"	2551433.38	634653.55	0.53
122.491	23°3'57.0281"	88°18'52.9202"	2551413.82	634675.28	0.76
122.512	23°3'56.6129"	88°18'53.5012"	2551401.20	634691.93	0.64
122.532	23°3'56.1897"	88°18'54.0755"	2551388.33	634708.39	0.63
122.553	23°3'55.7496"	88°18'54.6341"	2551374.94	634724.41	0.77
122.589	23°3'54.9308"	88°18'55.5138"	2551349.98	634749.67	0.80
122.612	23°3'54.3980"	88°18'56.0796"	2551333.74	634765.92	0.70
122.633	23°3'53.9428"	88°18'56.6237"	2551319.88	634781.53	0.46
122.653	23°3'53.5002"	88°18'57.1799"	2551306.41	634797.48	0.65
122.691	23°3'52.6896"	88°18'58.1689"	2551281.73	634825.85	0.39
122.722	23°3'51.9826"	88°18'58.9610"	2551260.19	634848.59	0.45

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
122.743	23°3'51.5029"	88°18'59.4810"	2551245.57	634863.52	0.39
122.773	23°3'50.8316"	88°19'0.2088"	2551225.11	634884.42	0.39
122.802	23°3'50.1880"	88°19'0.9640"	2551205.51	634906.09	0.44
122.827	23°3'49.7077"	88°19'1.6744"	2551190.92	634926.44	0.52
122.858	23°3'48.9396"	88°19'2.3968"	2551167.48	634947.21	0.52
122.879	23°3'48.4229"	88°19'2.8731"	2551151.71	634960.91	0.51
122.900	23°3'47.9258"	88°19'3.3732"	2551136.55	634975.28	0.66
122.933	23°3'47.1374"	88°19'4.1814"	2551112.51	634998.50	0.75
122.958	23°3'46.5194"	88°19'4.7538"	2551093.65	635014.96	0.58
122.979	23°3'45.9805"	88°19'5.2001"	2551077.19	635027.81	0.39
123.008	23°3'45.2410"	88°19'5.8461"	2551054.61	635046.40	0.40
123.029	23°3'44.7303"	88°19'6.3306"	2551039.03	635060.33	0.33
123.050	23°3'44.2072"	88°19'6.7977"	2551023.06	635073.77	0.37
123.073	23°3'43.6111"	88°19'7.2842"	2551004.85	635087.78	0.44
123.096	23°3'43.0165"	88°19'7.7735"	2550986.69	635101.87	0.47
123.119	23°3'42.4329"	88°19'8.2773"	2550968.87	635116.37	0.56
123.140	23°3'41.9242"	88°19'8.7632"	2550953.35	635130.34	0.50
123.161	23°3'41.4156"	88°19'9.2495"	2550937.83	635144.32	0.48

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
123.192	23°3'40.6400"	88°19'9.9626"	2550914.16	635164.83	0.56
123.213	23°3'40.0831"	88°19'10.3831"	2550897.14	635176.95	0.49
123.234	23°3'39.5554"	88°19'10.8442"	2550881.03	635190.22	0.76
123.254	23°3'39.0532"	88°19'11.3379"	2550865.71	635204.41	0.69
123.275	23°3'38.5307"	88°19'11.8072"	2550849.76	635217.91	0.57
123.298	23°3'37.9583"	88°19'12.3255"	2550832.29	635232.82	0.76
123.319	23°3'37.4522"	88°19'12.8149"	2550816.85	635246.89	0.79
123.355	23°3'36.5892"	88°19'13.6438"	2550790.52	635270.72	0.85
123.376	23°3'36.0654"	88°19'14.1103"	2550774.53	635284.14	0.83
123.401	23°3'35.4384"	88°19'14.6734"	2550755.39	635300.34	0.85
123.426	23°3'34.8816"	88°19'15.3148"	2550738.43	635318.75	0.83
123.446	23°3'34.4173"	88°19'15.8507"	2550724.29	635334.13	0.79
123.467	23°3'33.9338"	88°19'16.3663"	2550709.55	635348.94	0.77
123.488	23°3'33.4486"	88°19'16.8795"	2550694.76	635363.68	0.85
123.513	23°3'32.8670"	88°19'17.4961"	2550677.03	635381.39	0.82
123.534	23°3'32.4073"	88°19'18.0363"	2550663.03	635396.89	0.80
123.565	23°3'31.7825"	88°19'18.9058"	2550644.04	635421.81	0.84
123.586	23°3'31.3309"	88°19'19.4537"	2550630.29	635437.53	0.82

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
123.611	23°3'30.7802"	88°19'20.1029"	2550613.52	635456.16	0.82
123.632	23°3'30.3327"	88°19'20.6555"	2550599.90	635472.01	0.79
123.653	23°3'29.9272"	88°19'21.2439"	2550587.58	635488.87	0.76
123.674	23°3'29.5179"	88°19'21.8288"	2550575.14	635505.63	0.61
123.695	23°3'29.1040"	88°19'22.4116"	2550562.56	635522.33	0.53
123.732	23°3'28.3746"	88°19'23.4673"	2550540.40	635552.58	0.65
123.753	23°3'28.0295"	88°19'24.0996"	2550529.95	635570.67	0.64
123.783	23°3'27.5448"	88°19'24.9834"	2550515.27	635595.96	0.78
123.812	23°3'27.0714"	88°19'25.8744"	2550500.94	635621.45	0.71
123.833	23°3'26.7251"	88°19'26.5056"	2550490.45	635639.51	0.56
123.854	23°3'26.3571"	88°19'27.1208"	2550479.29	635657.12	0.48
123.883	23°3'25.8038"	88°19'27.9565"	2550462.49	635681.06	0.48
123.922	23°3'25.0456"	88°19'29.0847"	2550439.46	635713.38	0.53
123.943	23°3'24.6343"	88°19'29.6668"	2550426.96	635730.06	0.77
123.973	23°3'24.1159"	88°19'30.5275"	2550411.24	635754.70	0.79
123.993	23°3'23.7469"	88°19'31.1437"	2550400.05	635772.34	0.66
124.014	23°3'23.3718"	88°19'31.7556"	2550388.67	635789.86	0.42
124.035	23°3'22.9970"	88°19'32.3678"	2550377.30	635807.39	0.60

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
124.060	23°3'22.5541"	88°19'33.1066"	2550363.87	635828.54	0.67
124.081	23°3'22.1893"	88°19'33.7253"	2550352.81	635846.25	0.59
124.119	23°3'21.4864"	88°19'34.8045"	2550331.47	635877.16	0.54
124.146	23°3'20.9488"	88°19'35.5610"	2550315.13	635898.84	0.62
124.167	23°3'20.5426"	88°19'36.1491"	2550302.79	635915.69	0.64
124.188	23°3'20.1381"	88°19'36.7389"	2550290.50	635932.59	0.80
124.217	23°3'19.5658"	88°19'37.5590"	2550273.11	635956.09	0.83
124.238	23°3'19.1893"	88°19'38.1702"	2550261.69	635973.59	0.83
124.259	23°3'18.7971"	88°19'38.7693"	2550249.78	635990.75	0.81
124.280	23°3'18.4087"	88°19'39.3708"	2550237.99	636007.98	0.81
124.300	23°3'18.0403"	88°19'39.9870"	2550226.82	636025.62	0.81
124.332	23°3'17.4925"	88°19'40.9152"	2550210.21	636052.19	0.78
124.353	23°3'17.1270"	88°19'41.5346"	2550199.13	636069.92	0.74
124.373	23°3'16.7622"	88°19'42.1529"	2550188.07	636087.62	0.79
124.401	23°3'16.2876"	88°19'42.9578"	2550173.68	636110.66	0.85
124.422	23°3'15.9221"	88°19'43.5761"	2550162.60	636128.36	0.74
124.442	23°3'15.5576"	88°19'44.1955"	2550151.55	636146.09	0.47
124.463	23°3'15.1902"	88°19'44.8127"	2550140.41	636163.76	0.44

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
124.484	23°3'14.8154"	88°19'45.4250"	2550129.04	636181.29	0.58
124.505	23°3'14.4402"	88°19'46.0362"	2550117.66	636198.79	0.80
124.528	23°3'14.0317"	88°19'46.7124"	2550105.27	636218.15	0.85
124.549	23°3'13.6662"	88°19'47.3310"	2550094.19	636235.86	0.81
124.578	23°3'13.1550"	88°19'48.1974"	2550078.69	636260.66	0.82
124.599	23°3'12.7827"	88°19'48.8107"	2550067.40	636278.22	0.80
124.624	23°3'12.2817"	88°19'49.5050"	2550052.17	636298.12	0.83
124.651	23°3'11.7563"	88°19'50.2717"	2550036.21	636320.09	0.87
124.672	23°3'11.3453"	88°19'50.8562"	2550023.72	636336.84	0.85
124.693	23°3'10.9317"	88°19'51.4382"	2550011.15	636353.52	0.83
124.714	23°3'10.5107"	88°19'52.0145"	2549998.35	636370.04	0.79
124.735	23°3'10.0948"	88°19'52.5944"	2549985.71	636386.66	0.75
124.756	23°3'9.6886"	8°19'53.1824"	2549973.37	636403.51	0.82
124.779	23°3'9.2439"	8°19'53.8308"	2549959.86	636422.09	0.87
124.806	23°3'8.7082"	8°19'54.5894"	2549943.58	636443.83	0.87
124.827	23°3'8.2949"	8°19'55.1714"	2549931.02	636460.51	0.77
124.848	23°3'7.8813"	8°19'55.7541"	2549918.45	636477.21	0.77
124.881	23°3'7.2231"	8°19'56.6882"	2549898.45	636503.98	0.78

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
124.906	23°3'6.7366"	8°19'57.3945"	2549883.67	636524.22	0.75
124.927	23°3'6.3137"	8°19'57.9687"	2549870.81	636540.68	0.64
124.948	23°3'5.8907"	8°19'58.5428"	2549857.95	636557.14	0.63
124.969	23°3'5.4677"	8°19'59.1170"	2549845.09	636573.60	0.62
124.990	23°3'5.0506"	8°19'59.6965"	2549832.41	636590.21	0.60
125.025	23°3'4.3622"	8°20'0.6988"	2549811.50	636618.93	0.56
125.046	23°3'3.9551"	8°20'1.2854"	2549799.13	636635.74	0.70
125.082	23°3'3.1845"	8°20'2.2134"	2549775.67	636662.37	0.66
125.102	23°3'2.7086"	8°20'2.7372"	2549761.17	636677.41	0.70
125.134	23°3'1.9987"	8°20'3.5267"	2549739.54	636700.08	0.65
125.155	23°3'1.5308"	8°20'4.0589"	2549725.29	636715.36	0.59
125.176	23°3'1.0704"	8°20'4.5983"	2549711.27	636730.84	0.68
125.196	23°3'0.6113"	8°20'5.1390"	2549697.29	636746.36	0.60
125.217	23°3'0.1245"	8°20'5.6500"	2549682.45	636761.04	0.73
125.251	23°2'59.3103"	88°20'6.4276"	2549657.61	636783.40	0.66
125.280	23°2'58.5983"	88°20'7.1078"	2549635.89	636802.96	0.72
125.301	23°2'58.0822"	88°20'7.5855"	2549620.14	636816.70	0.51
125.334	23°2'57.2561"	88°20'8.3482"	2549594.93	636838.64	0.69

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
125.361	23°2'56.6036"	88°20'8.9907"	2549575.03	636857.11	0.58
125.399	23°2'55.7458"	88°20'9.9312"	2549548.89	636884.12	0.41
125.422	23°2'55.2284"	88°20'10.5139"	2549533.13	636900.85	0.50
125.445	23°2'54.7140"	88°20'11.0994"	2549517.46	636917.66	0.59
125.478	23°2'53.9510"	88°20'11.9354"	2549494.21	636941.67	0.62
125.499	23°2'53.4651"	88°20'12.4478"	2549479.40	636956.39	0.70
125.520	23°2'52.9725"	88°20'12.9531"	2549464.38	636970.91	0.84
125.541	23°2'52.4792"	88°20'13.4577"	2549449.34	636985.41	0.75
125.562	23°2'51.9801"	88°20'13.9548"	2549434.12	636999.70	0.69
125.597	23°2'51.1528"	88°20'14.8250"	2549408.90	637024.70	0.70
125.631	23°2'50.3907"	88°20'15.6617"	2549385.68	637048.73	0.70
125.654	23°2'49.8672"	88°20'16.2384"	2549369.73	637065.29	0.67
125.675	23°2'49.3733"	88°20'16.7405"	2549354.67	637079.72	0.59
125.699	23°2'48.7499"	88°20'17.2877"	2549335.64	637095.47	0.59
125.720	23°2'48.2318"	88°20'17.7330"	2549319.82	637108.29	0.68
125.748	23°2'47.5197"	88°20'18.3576"	2549298.08	637126.27	0.47
125.768	23°2'47.0086"	88°20'18.8125"	2549282.48	637139.36	0.37
125.789	23°2'46.4972"	88°20'19.2673"	2549266.87	637152.45	0.36

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
125.809	23°2'45.9861"	88°20'19.7222"	2549251.27	637165.54	0.36
125.829	23°2'45.4754"	88°20'20.1767"	2549235.68	637178.62	0.49
125.850	23°2'44.9643"	88°20'20.6315"	2549220.08	637191.71	0.60
125.880	23°2'44.2174"	88°20'21.2966"	2549197.28	637210.85	0.66
125.900	23°2'43.6989"	88°20'21.7422"	2549181.45	637223.68	0.64
125.920	23°2'43.1881"	88°20'22.1977"	2549165.86	637236.79	0.59
125.956	23°2'42.2804"	88°20'22.9979"	2549138.15	637259.82	0.63
125.977	23°2'41.7632"	88°20'23.4439"	2549122.36	637272.66	0.62
125.997	23°2'41.2522"	88°20'23.8987"	2549106.76	637285.75	0.60
126.017	23°2'40.7414"	88°20'24.3536"	2549091.17	637298.84	0.56
126.044	23°2'40.0423"	88°20'24.9000"	2549069.81	637314.59	0.46
126.064	23°2'39.4542"	88°20'25.2300"	2549051.81	637324.15	0.40
126.086	23°2'38.8253"	88°20'25.5924"	2549032.56	637334.64	0.44
126.111	23°2'38.1048"	88°20'26.0040"	2549010.51	637346.56	0.50
126.132	23°2'37.5174"	88°20'26.3341"	2548992.53	637356.12	0.39
126.155	23°2'36.8504"	88°20'26.7048"	2548972.11	637366.86	0.53
126.181	23°2'36.0877"	88°20'27.1079"	2548948.76	637378.55	0.52
126.212	23°2'35.1742"	88°20'27.5946"	2548920.79	637392.66	0.41

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
126.234	23°2'34.5254"	88°20'27.9139"	2548900.92	637401.93	0.45
126.269	23°2'33.5249"	88°20'28.4633"	2548870.29	637417.85	0.20
126.292	23°2'32.8998"	88°20'28.9412"	2548851.19	637431.63	0.59
126.315	23°2'32.2668"	88°20'29.3597"	2548831.83	637443.72	0.55
126.342	23°2'31.5156"	88°20'29.8670"	2548808.86	637458.37	0.59
126.363	23°2'30.9192"	88°20'30.2696"	2548790.62	637470.00	0.64
126.385	23°2'30.3345"	88°20'30.6644"	2548772.74	637481.40	0.70
126.417	23°2'29.4286"	88°20'31.2758"	2548745.04	637499.06	0.75
126.438	23°2'28.8634"	88°20'31.6345"	2548727.75	637509.43	0.69
126.462	23°2'28.1826"	88°20'32.0536"	2548706.92	637521.55	0.70
126.482	23°2'27.6171"	88°20'32.4014"	2548689.62	637531.61	0.58
126.502	23°2'27.0471"	88°20'32.7520"	2548672.18	637541.75	0.56
126.523	23°2'26.4820"	88°20'33.0998"	2548654.89	637551.81	0.55
126.543	23°2'25.9169"	88°20'33.4477"	2548637.60	637561.87	0.54
126.569	23°2'25.1828"	88°20'33.8992"	2548615.14	637574.93	0.57
126.600	23°2'24.3278"	88°20'34.4255"	2548588.98	637590.15	0.57
126.620	23°2'23.7479"	88°20'34.7819"	2548571.24	637600.46	0.64
126.653	23°2'22.8303"	88°20'35.3627"	2548543.17	637617.25	0.57

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
126.681	23°2'22.0202"	88°20'35.8029"	2548518.37	637630.01	0.56
126.703	23°2'21.4461"	88°20'36.2603"	2548500.83	637643.19	0.62
126.731	23°2'20.6422"	88°20'36.7308"	2548476.23	637656.81	0.54
126.761	23°2'19.7921"	88°20'37.2866"	2548450.23	637672.87	0.60
126.782	23°2'19.2176"	88°20'37.6701"	2548432.66	637683.95	0.71
126.816	23°2'18.2647"	88°20'38.3068"	2548403.52	637702.34	0.68
126.836	23°2'17.7115"	88°20'38.6761"	2548386.60	637713.01	0.59
126.859	23°2'17.0833"	88°20'39.0957"	2548367.39	637725.13	0.57
126.879	23°2'16.5124"	88°20'39.4772"	2548349.93	637736.15	0.55
126.900	23°2'15.9483"	88°20'39.8538"	2548332.68	637747.03	0.54
126.931	23°2'15.0631"	88°20'40.4447"	2548305.61	637764.10	0.76
126.951	23°2'14.5098"	88°20'40.8144"	2548288.69	637774.78	0.55
126.987	23°2'13.5249"	88°20'41.4721"	2548258.57	637793.78	0.55
127.008	23°2'12.9432"	88°20'41.8605"	2548240.78	637805.00	0.62
127.029	23°2'12.3899"	88°20'42.2302"	2548223.86	637815.68	0.61
127.049	23°2'11.8366"	88°20'42.5996"	2548206.94	637826.35	0.61
127.069	23°2'11.2801"	88°20'42.9714"	2548189.92	637837.09	0.55
127.096	23°2'10.5483"	88°20'43.4601"	2548167.54	637851.21	0.55

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
127.126	23°2'9.7167"	8°20'44.0154"	2548142.11	637867.25	0.53
127.160	23°2'8.7815"	8°20'44.6399"	2548113.51	637885.29	0.54
127.180	23°2'8.2214"	8°20'45.0141"	2548096.38	637896.10	0.54
127.206	23°2'7.4967"	8°20'45.4980"	2548074.22	637910.08	0.56
127.230	23°2'6.9585"	8°20'45.8984"	2548057.77	637921.63	0.54
127.254	23°2'6.3000"	8°20'46.4020"	2548037.65	637936.15	0.55
127.280	23°2'5.6135"	8°20'46.9484"	2548016.68	637951.90	0.54
127.304	23°2'5.1286"	8°20'47.4253"	2548001.89	637965.61	0.78
127.339	23°2'4.4575"	8°20'48.4237"	2547981.51	637994.22	0.69
127.360	23°2'4.0844"	8°20'49.0446"	2547970.20	638012.00	1.07
127.396	23°2'3.4908"	8°20'50.1073"	2547952.22	638042.42	0.85
127.416	23°2'3.1540"	8°20'50.7111"	2547942.02	638059.70	0.60
127.441	23°2'2.7406"	8°20'51.4514"	2547929.50	638080.89	0.70
127.463	23°2'2.3616"	8°20'52.1302"	2547918.02	638100.32	0.60
127.484	23°2'2.0858"	8°20'52.7882"	2547909.71	638119.13	1.23
127.505	23°2'1.8561"	8°20'53.4517"	2547902.82	638138.08	0.63
127.528	23°2'1.5984"	8°20'54.1956"	2547895.09	638159.33	0.76
127.549	23°2'1.3604"	8°20'54.8832"	2547887.95	638178.97	0.58

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
127.586	23°2'1.0985"	8°20'56.0431"	2547880.20	638212.06	0.61
127.611	23°2'0.9679"	8°20'56.8023"	2547876.38	638233.71	0.60
127.631	23°2'0.7535"	8°20'57.6198"	2547870.00	638257.04	0.55
127.657	23°2'0.4775"	8°20'58.5178"	2547861.75	638282.68	0.61
127.676	23°2'0.2275"	8°20'59.1701"	2547854.23	638301.32	0.58
127.696	23°1'59.9755"	88°20'59.8207"	2547846.65	638319.91	0.58
127.716	23°1'59.6675"	88°21'0.4422"	2547837.34	638337.69	0.54
127.743	23°1'59.2676"	88°21'1.3151"	2547825.27	638362.65	0.68
127.782	23°1'58.6188"	88°21'2.5069"	2547805.63	638396.76	0.65
127.801	23°1'58.2536"	88°21'3.0913"	2547794.55	638413.50	0.61
127.824	23°1'57.7911"	88°21'3.7169"	2547780.49	638431.44	0.84
127.850	23°1'57.2419"	88°21'4.3997"	2547763.78	638451.03	0.76
127.869	23°1'56.8080"	88°21'4.9233"	2547750.57	638466.06	0.67
127.890	23°1'56.3586"	88°21'5.4602"	2547736.89	638481.47	0.66
127.912	23°1'55.8747"	88°21'6.0378"	2547722.16	638498.05	0.66
127.938	23°1'55.2982"	88°21'6.7262"	2547704.61	638517.81	0.59
127.971	23°1'54.5828"	88°21'7.5805"	2547682.83	638542.33	0.59
127.991	23°1'54.1294"	88°21'8.1219"	2547669.03	638557.87	0.57

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
128.012	23°1'53.6669"	88°21'8.6389"	2547654.94	638572.72	0.61
128.045	23°1'52.8418"	88°21'9.3863"	2547629.76	638594.23	0.73
128.074	23°1'52.1170"	88°21'10.0427"	2547607.64	638613.12	0.62
128.096	23°1'51.5616"	88°21'10.5455"	2547590.69	638627.59	0.57
128.135	23°1'50.5618"	88°21'11.4510"	2547560.18	638653.65	0.57
128.156	23°1'50.0487"	88°21'11.9155"	2547544.52	638667.02	0.65
128.189	23°1'49.3262"	88°21'12.7563"	2547522.52	638691.16	0.75
128.209	23°1'48.8931"	88°21'13.2895"	2547509.34	638706.46	0.65
128.235	23°1'48.3125"	88°21'14.0049"	2547491.67	638726.99	0.61
128.280	23°1'47.4886"	88°21'15.0193"	2547466.60	638756.10	0.61
128.301	23°1'47.0345"	88°21'15.5786"	2547452.78	638772.15	0.80
128.328	23°1'46.5258"	88°21'16.2522"	2547437.31	638791.47	0.60
128.353	23°1'46.0330"	88°21'16.9565"	2547422.34	638811.66	0.66
128.379	23°1'45.6453"	88°21'17.7725"	2547410.63	638835.00	0.65
128.412	23°1'45.1658"	88°21'18.7837"	2547396.15	638863.92	0.65
128.440	23°1'44.7516"	88°21'19.6563"	2547383.64	638888.88	0.67
128.460	23°1'44.4546"	88°21'20.2829"	2547374.67	638906.80	0.78
128.486	23°1'44.0576"	88°21'21.1195"	2547362.68	638930.73	0.62

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
128.523	23°1'43.5195"	88°21'22.2541"	2547346.43	638963.18	0.59
128.543	23°1'43.2225"	88°21'22.8803"	2547337.46	638981.09	0.55
128.566	23°1'42.8837"	88°21'23.5939"	2547327.23	639001.50	0.57
128.589	23°1'42.5453"	88°21'24.3078"	2547317.01	639021.92	0.61
128.628	23°1'41.9536"	88°21'25.5549"	2547299.14	639057.59	0.54
128.651	23°1'41.6175"	88°21'26.2636"	2547288.99	639077.86	0.60
128.671	23°1'41.3205"	88°21'26.8898"	2547280.02	639095.77	0.60
128.698	23°1'40.9136"	88°21'27.7341"	2547267.73	639119.92	0.61
128.718	23°1'40.6114"	88°21'28.3630"	2547258.60	639137.91	0.59
128.749	23°1'40.1596"	88°21'29.3305"	2547244.96	639165.58	0.58
128.769	23°1'39.8665"	88°21'29.9578"	2547236.11	639183.52	0.54
128.797	23°1'39.4551"	88°21'30.8385"	2547223.69	639208.71	0.57
128.822	23°1'39.0907"	88°21'31.6183"	2547212.69	639231.01	0.55
128.852	23°1'38.6575"	88°21'32.5459"	2547199.61	639257.54	0.70
128.874	23°1'38.3239"	88°21'33.2598"	2547189.54	639277.96	0.70
128.894	23°1'38.0308"	88°21'33.8871"	2547180.69	639295.90	0.57
128.923	23°1'37.6118"	88°21'34.7843"	2547168.04	639321.56	0.60
128.943	23°1'37.3176"	88°21'35.4137"	2547159.16	639339.56	0.60

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
128.965	23°1'37.0070"	88°21'36.0783"	2547149.78	639358.57	0.58
128.985	23°1'36.7131"	88°21'36.7080"	2547140.91	639376.58	0.58
129.005	23°1'36.4190"	88°21'37.3374"	2547132.03	639394.58	0.57
129.025	23°1'36.1249"	88°21'37.9668"	2547123.15	639412.58	0.64
129.047	23°1'35.8209"	88°21'38.6796"	2547113.99	639432.96	0.95
129.073	23°1'35.4547"	88°21'39.5222"	2547102.95	639457.05	0.98
129.094	23°1'35.1565"	88°21'40.1754"	2547093.95	639475.73	0.94
129.114	23°1'34.8483"	88°21'40.8113"	2547084.64	639493.92	0.85
129.134	23°1'34.5467"	88°21'41.4339"	2547075.53	639511.73	0.84
129.155	23°1'34.2389"	88°21'42.0694"	2547066.23	639529.91	0.75
129.175	23°1'33.9373"	88°21'42.6920"	2547057.12	639547.72	0.71
129.203	23°1'33.5047"	88°21'43.5848"	2547044.05	639573.26	0.72
129.226	23°1'33.1571"	88°21'44.3018"	2547033.55	639593.77	0.68
129.252	23°1'32.7771"	88°21'45.0866"	2547022.07	639616.22	0.68
129.276	23°1'32.4022"	88°21'45.8381"	2547010.74	639637.72	0.77
129.314	23°1'31.7815"	88°21'46.9827"	2546991.95	639670.48	0.83
129.345	23°1'31.2971"	88°21'47.9508"	2546977.31	639698.18	0.86
129.385	23°1'30.6771"	88°21'49.1895"	2546958.57	639733.62	0.87

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
129.406	23°1'30.3499"	88°21'49.8115"	2546948.67	639751.42	0.83
129.434	23°1'29.9174"	88°21'50.6875"	2546935.60	639776.48	0.87
129.454	23°1'29.6472"	88°21'51.3279"	2546927.46	639794.79	0.82
129.480	23°1'29.2353"	88°21'52.1532"	2546915.01	639818.40	0.84
129.502	23°1'28.9484"	88°21'52.8405"	2546906.37	639838.05	0.82
129.522	23°1'28.6153"	88°21'53.4593"	2546896.29	639855.76	0.78
129.543	23°1'28.3237"	88°21'54.1002"	2546887.49	639874.09	0.79
129.563	23°1'28.0107"	88°21'54.7276"	2546878.03	639892.04	0.81
129.584	23°1'27.6571"	88°21'55.3462"	2546867.32	639909.75	0.89
129.605	23°1'27.3573"	88°21'56.0369"	2546858.28	639929.50	0.92
129.632	23°1'26.9465"	88°21'56.8390"	2546845.86	639952.45	0.96
129.661	23°1'26.5610"	88°21'57.7670"	2546834.25	639978.98	1.04
129.682	23°1'26.2259"	88°21'58.4363"	2546824.12	639998.13	1.09
129.703	23°1'25.9061"	88°21'59.0601"	2546814.45	640015.98	1.02
129.723	23°1'25.5762"	88°21'59.6845"	2546804.47	640033.85	0.92
129.744	23°1'25.2339"	88°22'0.3176"	2546794.11	640051.97	0.88
129.764	23°1'24.9590"	88°22'0.9752"	2546785.83	640070.77	0.81
129.785	23°1'24.6342"	88°22'1.6127"	2546776.01	640089.01	0.76

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
129.807	23°1'24.2888"	88°22'2.2678"	2546765.56	640107.76	0.90
129.827	23°1'23.9638"	88°22'2.8849"	2546755.73	640125.42	0.83
129.849	23°1'23.6285"	88°22'3.5707"	2546745.60	640145.04	0.55
129.869	23°1'23.3262"	88°22'4.2014"	2546736.47	640163.08	0.58
129.894	23°1'22.9590"	88°22'4.9673"	2546725.38	640184.99	0.62
129.928	23°1'22.4548"	88°22'6.0557"	2546710.16	640216.12	0.61
129.967	23°1'21.8576"	88°22'7.2423"	2546692.11	640250.07	0.82
130.006	23°1'21.1953"	88°22'8.4148"	2546672.05	640283.64	0.86
130.038	23°1'20.7110"	88°22'9.4412"	2546657.43	640313.00	1.01
130.059	23°1'20.4208"	88°22'10.1004"	2546648.68	640331.85	0.93
130.082	23°1'20.0332"	88°22'10.7780"	2546636.94	640351.25	1.17
130.102	23°1'19.7251"	88°22'11.4082"	2546627.63	640369.28	1.13
130.123	23°1'19.4100"	88°22'12.0479"	2546618.11	640387.58	1.11
130.158	23°1'18.8430"	88°22'13.1356"	2546600.96	640418.71	1.12
130.178	23°1'18.5744"	88°22'13.7761"	2546592.87	640437.02	1.03
130.199	23°1'18.2496"	88°22'14.4076"	2546583.05	640455.09	0.97
130.224	23°1'17.8582"	88°22'15.1964"	2546571.22	640477.66	0.98
130.250	23°1'17.4746"	88°22'16.0163"	2546559.64	640501.11	0.98

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
130.271	23°1'17.1658"	88°22'16.6380"	2546550.31	640518.90	0.92
130.291	23°1'16.8477"	88°22'17.2562"	2546540.69	640536.59	0.86
130.311	23°1'16.4838"	88°22'17.8613"	2546529.66	640553.92	0.79
130.331	23°1'16.0875"	88°22'18.4242"	2546517.62	640570.06	0.59
130.351	23°1'15.7744"	88°22'19.0530"	2546508.16	640588.05	0.55
130.375	23°1'15.3797"	88°22'19.7687"	2546496.21	640608.54	0.67
130.397	23°1'15.1103"	88°22'20.5001"	2546488.12	640629.44	0.77
130.418	23°1'14.8469"	88°22'21.1772"	2546480.20	640648.79	0.89
130.438	23°1'14.3764"	88°22'21.6737"	2546465.86	640663.06	0.89
130.461	23°1'14.0930"	88°22'22.4390"	2546457.35	640684.93	0.82
130.481	23°1'13.8575"	88°22'23.0953"	2546450.28	640703.68	0.80
130.519	23°1'13.1608"	88°22'24.2133"	2546429.15	640735.71	0.80
130.540	23°1'12.8696"	88°22'24.8700"	2546420.37	640754.49	0.82
130.559	23°1'12.6016"	88°22'25.5105"	2546412.30	640772.80	0.78
130.588	23°1'12.1386"	88°22'26.3822"	2546398.29	640797.75	0.87
130.608	23°1'11.8687"	88°22'27.0216"	2546390.16	640816.03	0.66
130.628	23°1'11.5680"	88°22'27.6522"	2546381.08	640834.07	0.93
130.656	23°1'11.1026"	88°22'28.4849"	2546366.99	640857.91	0.77

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
130.686	23°1'10.6252"	88°22'29.3976"	2546352.55	640884.03	1.02
130.707	23°1'10.3219"	88°22'30.0313"	2546343.39	640902.16	0.98
130.726	23°1'9.9934"	8°22'30.6388"	2546333.45	640919.55	0.84
130.747	23°1'9.6817"	8°22'31.2585"	2546324.03	640937.28	0.71
130.767	23°1'9.4008"	8°22'31.9009"	2546315.56	640955.65	0.62
130.791	23°1'8.9985"	8°22'32.6204"	2546303.38	640976.25	0.81
130.812	23°1'8.7399"	8°22'33.3400"	2546295.62	640996.81	0.90
130.832	23°1'8.6818"	8°22'34.0454"	2546294.02	641016.91	0.55
130.867	23°1'8.1806"	8°22'35.1854"	2546278.91	641049.51	0.58
130.887	23°1'8.0147"	8°22'35.8666"	2546273.99	641068.95	0.58
130.907	23°1'8.0257"	8°22'36.5766"	2546274.52	641089.16	0.70
130.925	23°1'8.1657"	8°22'37.2707"	2546279.01	641108.88	0.94
130.950	23°1'8.0291"	8°22'38.1327"	2546275.04	641133.46	0.79
130.979	23°1'7.8292"	8°22'39.1343"	2546269.16	641162.03	0.94
130.998	23°1'7.4661"	8°22'39.7224"	2546258.15	641178.88	0.80
131.019	23°1'7.5371"	8°22'40.4917"	2546260.54	641200.76	0.62
131.048	23°1'7.1751"	8°22'41.4431"	2546249.66	641227.95	1.00
131.068	23°1'6.9680"	8°22'42.1126"	2546243.47	641247.07	0.82

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
131.088	23°1'6.8663"	8°22'42.8131"	2546240.53	641267.04	1.24
131.118	23°1'6.7679"	8°22'43.8472"	2546237.78	641296.51	1.25
131.146	23°1'6.7435"	8°22'44.8505"	2546237.30	641325.08	1.23
131.178	23°1'6.9153"	8°22'46.0343"	2546242.90	641358.73	1.39
131.200	23°1'6.9239"	8°22'46.7994"	2546243.37	641380.51	1.40
131.223	23°1'6.7298"	8°22'47.4701"	2546237.58	641399.66	1.39
131.250	23°1'6.5527"	8°22'48.4307"	2546232.39	641427.06	1.39
131.270	23°1'6.5020"	8°22'49.1334"	2546231.02	641447.08	1.39
131.290	23°1'6.5043"	8°22'49.8416"	2546231.28	641467.24	1.38
131.324	23°1'6.3670"	8°22'51.0380"	2546227.38	641501.34	1.39
131.359	23°1'6.2519"	8°22'52.2687"	2546224.17	641536.41	1.39
131.380	23°1'6.1928"	8°22'53.0117"	2546222.55	641557.58	1.40
131.401	23°1'6.1759"	8°22'53.7485"	2546222.23	641578.56	1.37
131.421	23°1'6.1594"	8°22'54.4512"	2546221.91	641598.57	0.83
131.441	23°1'6.1038"	8°22'55.1563"	2546220.39	641618.66	0.71
131.462	23°1'6.0402"	8°22'55.8880"	2546218.63	641639.51	0.90
131.484	23°1'5.9756"	8°22'56.6608"	2546216.85	641661.53	0.84
131.504	23°1'5.8866"	8°22'57.3610"	2546214.30	641681.49	0.71

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
131.530	23°1'5.8383"	8°22'58.2671"	2546213.06	641707.30	0.68
131.554	23°1'5.8541"	8°22'59.1363"	2546213.78	641732.04	0.71
131.575	23°1'5.8258"	8°22'59.8480"	2546213.10	641752.31	0.70
131.600	23°1'5.7487"	8°23'0.7472"	2546210.97	641777.93	0.75
131.639	23°1'5.7126"	8°23'2.1188"	2546210.23	641816.99	0.74
131.667	23°1'5.6951"	8°23'3.1183"	2546209.96	641845.45	0.74
131.691	23°1'5.6151"	8°23'3.9036"	2546207.71	641867.83	0.61
131.712	23°1'5.5289"	8°23'4.6147"	2546205.25	641888.10	0.68
131.732	23°1'5.4780"	8°23'5.3385"	2546203.88	641908.72	0.86
131.764	23°1'5.4441"	8°23'6.4309"	2546203.13	641939.83	0.64
131.784	23°1'5.4093"	8°23'7.1355"	2546202.25	641959.90	0.92
131.821	23°1'5.3439"	8°23'8.4444"	2546200.59	641997.18	0.98
131.843	23°1'5.2773"	8°23'9.1799"	2546198.74	642018.14	0.34
131.866	23°1'5.2787"	8°23'9.9871"	2546199.00	642041.12	0.10
131.905	23°1'5.2395"	8°23'11.3766"	2546198.17	642080.69	0.60
131.925	23°1'5.1352"	8°23'12.0718"	2546195.15	642100.51	0.56
131.945	23°1'5.1404"	8°23'12.7796"	2546195.50	642120.66	0.96
131.975	23°1'4.9938"	8°23'13.8477"	2546191.28	642151.11	1.22

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
131.995	23°1'4.9506"	8°23'14.5491"	2546190.14	642171.09	0.57
132.015	23°1'4.8138"	8°23'15.3155"	2546186.14	642192.95	0.71
132.034	23°1'4.8119"	8°23'16.0226"	2546186.27	642213.08	0.61
132.054	23°1'4.9127"	8°23'16.7244"	2546189.56	642233.03	0.69
132.074	23°1'5.1374"	8°23'17.3898"	2546196.65	642251.91	0.62
132.121	23°1'1.9372"	8°23'20.4067"	2546099.04	642338.73	1.08
132.139	23°1'2.6365"	8°23'20.6418"	2546120.61	642345.22	1.21
132.150	23°1'3.2805"	8°23'20.8412"	2546140.47	642350.71	1.42
132.155	23°1'6.0754"	8°23'20.2056"	2546226.26	642331.80	1.00
132.158	23°1'4.5571"	8°23'21.3773"	2546179.88	642365.60	1.38
132.163	23°1'3.9137"	8°23'21.0774"	2546160.01	642357.25	1.30
132.174	23°1'5.1827"	8°23'21.6402"	2546199.19	642372.90	1.13
132.175	23°1'6.2282"	8°23'20.9456"	2546231.16	642352.82	1.54
132.198	23°1'6.0835"	8°23'22.0252"	2546227.00	642383.60	0.77
132.216	23°1'6.6725"	8°23'22.3348"	2546245.20	642392.24	1.37
132.233	23°1'7.2736"	8°23'22.6384"	2546263.77	642400.71	1.53
132.259	23°1'8.3853"	8°23'23.1585"	2546298.10	642415.19	1.56
132.279	23°1'8.9962"	8°23'23.4190"	2546316.96	642422.43	1.38

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
132.299	23°1'9.5986"	88°23'23.7227"	2546335.57	642430.90	1.24
132.328	23°1'10.4981"	88°23'24.1464"	2546363.35	642442.70	1.39
132.349	23°1'11.0833"	88°23'24.4858"	2546381.44	642452.19	1.31
132.369	23°1'11.6655"	88°23'24.8290"	2546399.44	642461.79	1.26
132.401	23°1'12.5582"	88°23'25.4008"	2546427.05	642477.81	1.41
132.422	23°1'13.1085"	88°23'25.8210"	2546444.09	642489.61	1.58
132.446	23°1'13.8011"	88°23'26.2587"	2546465.51	642501.87	1.74
132.465	23°1'14.3975"	88°23'26.5883"	2546483.94	642511.08	1.74
132.484	23°1'14.9212"	88°23'27.0058"	2546500.16	642522.81	1.74
132.505	23°1'15.3444"	88°23'27.5690"	2546513.33	642538.72	1.90
132.525	23°1'15.6645"	88°23'28.1806"	2546523.34	642556.04	2.27
132.546	23°1'15.8864"	88°23'29.0530"	2546530.40	642580.81	2.22
132.566	23°1'16.0482"	88°23'29.7351"	2546535.56	642600.18	1.88
132.593	23°1'16.3638"	88°23'30.6625"	2546545.52	642626.49	2.35
132.620	23°1'16.6202"	88°23'31.3413"	2546553.59	642645.74	2.16
132.641	23°1'16.8770"	88°23'32.0205"	2546561.67	642665.00	1.87
132.669	23°1'17.1334"	88°23'32.6996"	2546569.74	642684.26	2.11
132.692	23°1'17.4346"	88°23'33.4966"	2546579.22	642706.86	2.36

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
132.712	23°1'17.7381"	88°23'34.1467"	2546588.73	642725.28	2.13
132.733	23°1'18.1734"	88°23'34.7108"	2546602.27	642741.21	1.99
132.753	23°1'18.5290"	88°23'35.3042"	2546613.37	642758.00	1.89
132.774	23°1'18.8907"	88°23'35.9216"	2546624.66	642775.47	1.95
132.793	23°1'19.1359"	88°23'36.5820"	2546632.38	642794.20	1.88
132.815	23°1'19.3165"	88°23'37.3395"	2546638.14	642815.71	1.77
132.835	23°1'19.4138"	88°23'38.0346"	2546641.32	642835.47	1.45
132.868	23°1'19.5907"	88°23'39.2103"	2546647.08	642868.89	1.56
132.888	23°1'19.7016"	88°23'39.9070"	2546650.68	642888.69	1.35
132.923	23°1'19.6472"	88°23'41.1348"	2546649.34	642923.66	1.12
132.943	23°1'19.6673"	88°23'41.8435"	2546650.15	642943.83	1.51
132.977	23°1'19.5589"	88°23'43.0360"	2546647.14	642977.81	1.06
132.999	23°1'19.4808"	88°23'43.8133"	2546644.95	642999.96	1.00
133.025	23°1'19.3889"	88°23'44.7277"	2546642.37	643026.02	0.69
133.062	23°1'19.3129"	88°23'46.0428"	2546640.39	643063.48	2.22
133.083	23°1'19.2685"	88°23'46.7624"	2546639.22	643083.98	1.97
133.104	23°1'19.1991"	88°23'47.4807"	2546637.28	643104.45	1.72
133.124	23°1'19.1180"	88°23'48.1968"	2546634.98	643124.86	1.59

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
133.144	23°1'19.0174"	88°23'48.9173"	2546632.08	643145.40	1.33
133.181	23°1'18.8961"	88°23'50.2063"	2546628.70	643182.13	1.34
133.203	23°1'18.7899"	88°23'50.9604"	2546625.64	643203.63	1.48
133.240	23°1'18.4746"	88°23'52.2389"	2546616.29	643240.12	1.52
133.259	23°1'18.2564"	88°23'52.9132"	2546609.76	643259.38	1.48
133.280	23°1'17.9694"	88°23'53.5604"	2546601.11	643277.89	1.58
133.311	23°1'17.5224"	88°23'54.5531"	2546587.63	643306.28	1.80
133.332	23°1'17.2228"	88°23'55.1914"	2546578.59	643324.54	1.77
133.352	23°1'16.8362"	88°23'55.7828"	2546566.86	643341.49	1.76
133.372	23°1'16.4846"	88°23'56.3812"	2546556.21	643358.63	1.89
133.399	23°1'16.0691"	88°23'57.2242"	2546543.66	643382.75	1.80
133.435	23°1'15.5335"	88°23'58.3406"	2546527.49	643414.69	1.65
133.456	23°1'15.2216"	88°23'58.9827"	2546518.07	643433.06	1.50
133.476	23°1'14.9354"	88°23'59.6148"	2546509.44	643451.14	1.32
133.497	23°1'14.6554"	88°24'0.3169"	2546501.02	643471.21	1.31
133.531	23°1'14.1739"	88°24'1.4117"	2546486.51	643502.52	1.47
133.557	23°1'13.7591"	88°24'2.2129"	2546473.97	643525.45	1.72
133.582	23°1'13.3585"	88°24'2.9861"	2546461.86	643547.58	1.83

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
133.603	23°1'13.0297"	88°24'3.6213"	2546451.92	643565.76	1.50
133.626	23°1'12.7009"	88°24'4.2565"	2546441.98	643583.94	1.31
133.650	23°1'12.2649"	88°24'4.9541"	2546428.76	643603.93	1.17
133.670	23°1'11.9611"	88°24'5.5931"	2546419.59	643622.21	1.11
133.707	23°1'11.4327"	88°24'6.7039"	2546403.64	643653.99	1.14
133.742	23°1'10.9784"	88°24'7.8465"	2546389.98	643686.65	1.19
133.779	23°1'10.5056"	88°24'9.0278"	2546375.76	643720.42	1.32
133.808	23°1'10.2033"	88°24'9.9769"	2546366.72	643747.53	1.45
133.828	23°1'9.9222"	8°24'10.6228"	2546358.25	643766.00	1.60
133.849	23°1'9.6886"	8°24'11.2955"	2546351.25	643785.22	1.74
133.886	23°1'9.2805"	8°24'12.5551"	2546339.04	643821.20	1.79
133.906	23°1'9.1151"	8°24'13.2397"	2546334.14	643840.74	1.63
133.927	23°1'8.8762"	8°24'13.9236"	2546326.98	643860.28	1.33
133.947	23°1'8.6237"	8°24'14.5722"	2546319.39	643878.82	2.07
133.975	23°1'8.2563"	8°24'15.4526"	2546308.33	643903.99	1.99
133.997	23°1'7.9928"	8°24'16.1190"	2546300.41	643923.04	1.75
134.017	23°1'7.7740"	8°24'16.7862"	2546293.86	643942.10	1.89
134.037	23°1'7.5664"	8°24'17.4599"	2546287.66	643961.34	2.27

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
134.072	23°1'7.2961"	8°24'18.6468"	2546279.67	643995.21	2.10
134.092	23°1'7.1905"	8°24'19.3640"	2546276.62	644015.66	1.88
134.113	23°1'7.1922"	8°24'20.0922"	2546276.87	644036.39	1.55
134.152	23°1'7.2460"	8°24'21.4999"	2546278.91	644076.45	1.65
134.177	23°1'7.3272"	8°24'22.2096"	2546281.60	644096.63	1.73
134.197	23°1'7.4589"	8°24'22.8994"	2546285.84	644116.23	1.81
134.223	23°1'7.7569"	8°24'23.7553"	2546295.24	644140.51	2.07
134.260	23°1'8.2851"	8°24'24.8399"	2546311.78	644171.23	1.93
134.281	23°1'8.6260"	8°24'25.4715"	2546322.44	644189.11	1.90
134.301	23°1'8.9159"	8°24'26.1159"	2546331.53	644207.37	1.82
134.321	23°1'9.2824"	8°24'26.7231"	2546342.97	644224.55	1.91
134.349	23°1'9.7340"	8°24'27.5719"	2546357.09	644248.58	2.09
134.367	23°1'9.9030"	8°24'28.2698"	2546362.48	644268.40	1.90
134.387	23°1'10.0167"	8°24'28.9700"	2546366.17	644288.30	1.88
134.408	23°1'10.0928"	8°24'29.7014"	2546368.71	644309.10	1.95
134.430	23°1'10.0969"	8°24'30.5252"	2546369.06	644332.55	2.05
134.450	23°1'10.1005"	8°24'31.2460"	2546369.37	644353.07	2.00
134.488	23°1'10.0607"	8°24'32.5839"	2546368.51	644391.17	1.83

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
134.509	23°1'10.0233"	88°24'33.3078"	2546367.56	644411.79	1.67
134.529	23°1'9.9863"	8°24'34.0314"	2546366.62	644432.40	1.99
134.549	23°1'9.9311"	8°24'34.7540"	2546365.12	644452.99	2.17
134.572	23°1'9.8688"	8°24'35.5420"	2546363.42	644475.44	2.13
134.592	23°1'9.8117"	8°24'36.2639"	2546361.86	644496.01	2.53
134.613	23°1'9.7545"	8°24'36.9862"	2546360.30	644516.59	2.89
134.629	23°1'9.6927"	8°24'37.6870"	2546358.59	644536.56	3.49
134.649	23°1'9.5330"	8°24'38.3801"	2546353.87	644556.34	4.77
134.670	23°1'9.3132"	8°24'39.0814"	2546347.30	644576.37	4.89
134.690	23°1'9.0335"	8°24'39.7449"	2546338.88	644595.34	3.68
134.711	23°1'8.7509"	8°24'40.4012"	2546330.37	644614.11	3.31
134.732	23°1'8.5129"	8°24'41.0619"	2546323.23	644632.99	3.92
134.765	23°1'8.1462"	8°24'42.1491"	2546312.25	644664.05	3.59
134.785	23°1'7.9228"	8°24'42.8114"	2546305.56	644682.97	2.94
134.811	23°1'7.6997"	8°24'43.4736"	2546298.88	644701.89	3.08
134.831	23°1'7.5027"	8°24'44.1649"	2546293.01	644721.63	3.59
134.857	23°1'7.4206"	8°24'45.0503"	2546290.73	644746.86	3.68
134.880	23°1'7.3879"	8°24'45.7634"	2546289.92	644767.17	3.42

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
134.900	23°1'7.3552"	8°24'46.4761"	2546289.11	644787.47	2.99
134.923	23°1'7.4286"	8°24'47.2854"	2546291.59	644810.49	3.11
134.958	23°1'7.5620"	8°24'48.4853"	2546296.02	644844.61	3.66
134.980	23°1'7.7405"	8°24'49.1669"	2546301.70	644863.96	3.02
135.008	23°1'8.0073"	8°24'50.1342"	2546310.17	644891.42	3.49
135.048	23°1'8.4907"	8°24'51.4182"	2546325.39	644927.83	3.51
135.068	23°1'8.7931"	8°24'52.0634"	2546334.87	644946.11	3.24
135.088	23°1'8.9798"	8°24'52.7461"	2546340.80	644965.49	2.79
135.109	23°1'9.1949"	8°24'53.4217"	2546347.60	644984.66	3.18
135.128	23°1'9.2871"	8°24'54.1234"	2546350.63	645004.61	3.58
135.163	23°1'9.0880"	8°24'55.4884"	2546344.88	645043.53	1.81
135.184	23°1'8.8988"	8°24'56.1753"	2546339.25	645063.14	2.87
135.204	23°1'8.8237"	8°24'56.8977"	2546337.14	645083.73	3.07
135.237	23°1'8.7316"	8°24'58.0401"	2546334.62	645116.28	2.69
135.277	23°1'8.6168"	8°24'59.4510"	2546331.48	645156.48	3.03
135.303	23°1'8.5954"	8°25'0.3963"	2546331.08	645183.40	0.63
135.323	23°1'8.3239"	8°25'1.0542"	2546322.91	645202.21	0.76
135.342	23°1'7.9974"	8°25'1.6739"	2546313.04	645219.95	0.54

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
135.362	23°1'7.7998"	8°25'2.3498"	2546307.15	645239.25	0.19
135.383	23°1'7.5747"	8°25'3.0250"	2546300.41	645258.54	0.38
135.403	23°1'7.3776"	8°25'3.7184"	2546294.54	645278.34	0.16
135.433	23°1'7.2237"	8°25'4.7404"	2546290.09	645307.48	0.32
135.453	23°1'7.1170"	8°25'5.4439"	2546287.00	645327.54	0.78
135.473	23°1'7.0052"	8°25'6.1575"	2546283.76	645347.89	0.62
135.493	23°1'6.9709"	8°25'6.8667"	2546282.90	645368.09	0.75
135.515	23°1'6.8326"	8°25'7.6099"	2546278.85	645389.29	0.04
135.551	23°1'6.6277"	8°25'8.8495"	2546272.89	645424.64	0.87
135.571	23°1'6.5503"	8°25'9.5712"	2546270.71	645445.21	0.66
135.592	23°1'6.4594"	8°25'10.2896"	2546268.11	645465.69	2.60
135.612	23°1'6.3383"	8°25'10.9870"	2546264.58	645485.58	2.37
135.632	23°1'6.1725"	8°25'11.6804"	2546259.67	645505.37	2.27
135.649	23°1'5.9466"	8°25'12.3559"	2546252.91	645524.67	2.13
135.670	23°1'5.6808"	8°25'13.0304"	2546244.92	645543.95	1.85
135.691	23°1'5.3748"	8°25'13.6844"	2546235.69	645562.66	1.61
135.711	23°1'5.0717"	8°25'14.3159"	2546226.54	645580.73	1.47
135.731	23°1'4.7079"	8°25'14.9282"	2546215.52	645598.27	1.61

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
135.750	23°1'4.2372"	8°25'15.5267"	2546201.21	645615.45	1.74
135.770	23°1'3.7924"	8°25'16.0416"	2546187.67	645630.24	2.13
135.790	23°1'3.2669"	8°25'16.4836"	2546171.63	645642.98	3.83
135.816	23°1'2.2507"	8°25'16.6830"	2546140.43	645648.96	4.95
135.851	23°1'1.5929"	8°25'16.7551"	2546120.22	645651.21	3.91
135.863	23°1'1.0152"	8°25'17.0813"	2546102.54	645660.67	3.29
135.881	23°1'0.3582"	8°25'17.0653"	2546082.33	645660.41	2.69
135.901	23°0'59.6836"	88°25'16.9486"	2546061.55	645657.29	2.38
135.922	23°0'59.0468"	88°25'16.7186"	2546041.90	645650.93	2.08
135.942	23°0'58.4378"	88°25'16.4294"	2546023.09	645642.88	1.84
135.962	23°0'57.8225"	88°25'16.1985"	2546004.10	645636.49	1.60
135.982	23°0'57.2034"	88°25'15.9490"	2545984.99	645629.57	1.53
136.003	23°0'56.6402"	88°25'15.5557"	2545967.56	645618.54	1.12
136.023	23°0'56.0752"	88°25'15.1553"	2545950.07	645607.31	1.01
136.057	23°0'55.2406"	88°25'14.4988"	2545924.22	645588.87	0.98
136.076	23°0'54.7235"	88°25'14.0407"	2545908.19	645575.98	1.12
136.098	23°0'54.1834"	88°25'13.4976"	2545891.43	645560.68	1.07
136.117	23°0'53.6745"	88°25'13.0392"	2545875.65	645547.78	1.18

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
136.136	23°0'53.2244"	88°25'12.4047"	2545861.63	645529.85	1.30
136.156	23°0'52.6906"	88°25'11.9245"	2545845.08	645516.34	1.37
136.184	23°0'52.2676"	88°25'11.3420"	2545831.91	645499.88	1.44
136.212	23°0'51.5327"	88°25'10.7305"	2545809.14	645482.69	1.49
136.232	23°0'51.0753"	88°25'10.2252"	2545794.93	645468.44	1.47
136.272	23°0'50.1992"	88°25'9.1942"	2545767.70	645439.35	1.47
136.291	23°0'49.7830"	88°25'8.6535"	2545754.75	645424.08	1.47
136.312	23°0'49.2573"	88°25'8.2150"	2545738.46	645411.75	1.47
136.332	23°0'48.7684"	88°25'7.7318"	2545723.29	645398.14	1.47
136.353	23°0'48.3064"	88°25'7.2131"	2545708.94	645383.51	1.47
136.374	23°0'47.8629"	88°25'6.6788"	2545695.15	645368.43	1.47
136.394	23°0'47.4148"	88°25'6.1437"	2545681.22	645353.33	1.47
136.415	23°0'46.9333"	88°25'5.6311"	2545666.27	645338.88	1.46
136.435	23°0'46.5271"	88°25'5.0610"	2545653.62	645322.77	1.46
136.456	23°0'46.0707"	88°25'4.5389"	2545639.44	645308.04	1.46
136.476	23°0'45.6129"	88°25'4.0304"	2545625.22	645293.70	1.46
136.496	23°0'45.1572"	88°25'3.5150"	2545611.06	645279.16	1.54
136.518	23°0'44.6828"	88°25'2.9382"	2545596.31	645262.88	1.64

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
136.546	23°0'43.9914"	88°25'2.2931"	2545574.87	645244.72	1.70
136.578	23°0'43.1598"	88°25'1.6374"	2545549.11	645226.30	1.76
136.598	23°0'42.6065"	88°25'1.2274"	2545531.98	645214.79	1.76
136.626	23°0'41.8903"	88°25'0.7500"	2545509.82	645201.41	1.77
136.646	23°0'41.3386"	88°25'0.3353"	2545492.74	645189.77	1.90
136.666	23°0'40.7890"	88°24'59.9583"	2545475.73	645179.20	2.19
136.695	23°0'39.8973"	88°24'59.4619"	2545448.17	645165.33	1.99
136.715	23°0'39.3427"	88°24'59.0950"	2545431.01	645155.05	1.88
136.735	23°0'38.8125"	88°24'58.6831"	2545414.59	645143.48	2.05
136.758	23°0'38.2170"	88°24'58.1546"	2545396.13	645128.61	2.16
136.790	23°0'37.3072"	88°24'57.4050"	2545367.94	645107.54	2.11
136.811	23°0'36.7777"	88°24'56.9513"	2545351.53	645094.78	2.31
136.840	23°0'35.9798"	88°24'56.3663"	2545326.83	645078.36	2.18
136.862	23°0'35.4345"	88°24'55.8671"	2545309.92	645064.31	2.28
136.885	23°0'34.7079"	88°24'55.3513"	2545287.43	645049.84	2.31
136.905	23°0'34.1906"	88°24'54.8781"	2545271.39	645036.52	2.32
136.924	23°0'33.6997"	88°24'54.4016"	2545256.16	645023.10	2.03
136.945	23°0'33.1041"	88°24'54.0719"	2545237.75	645013.89	2.82

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal

White Cell shows	Stretch with Bathymetric Survey
Highlighted Cell shows	Stretch with Topographic Survey

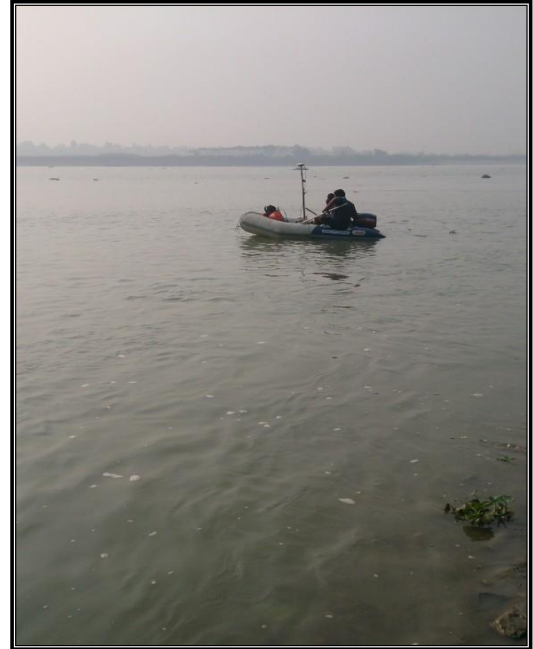
Chainage (Km)	Latitude	Longitude	Northing	Easting	Bathymetric Depth/ Topographic Elevation (m)
136.966	23°0'32.4783"	88°24'53.7303"	2545218.41	645004.35	2.85
137.002	23°0'31.4983"	88°24'53.0085"	2545188.07	644984.09	2.59
137.022	23°0'30.8846"	88°24'52.7748"	2545169.13	644977.62	2.14
137.044	23°0'30.2184"	88°24'52.4834"	2545148.56	644969.52	1.97
137.064	23°0'29.6861"	88°24'52.0472"	2545132.07	644957.26	3.24
137.093	23°0'28.7244"	88°24'51.8686"	2545102.44	644952.46	6.65
137.110	23°0'28.0772"	88°24'51.9904"	2545082.57	644956.12	4.80
137.127	23°0'27.4279"	88°24'52.1343"	2545062.64	644960.41	3.42
137.141	23°0'26.8441"	88°24'52.4489"	2545044.77	644969.54	2.68

Annexure 3: Photographs along the DVC Canal

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



SURVEY BOAT MOBILISATION



SURVEY BOAT TRIAL



CHAINAGE 136.4 Km NAYA SARAYA

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 135.50 Km TRIBENI



CHAINAGE 135.4 Km KATLA HANGING BRIDGE SERPUR

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 135.2 Km RAILWAY BRIDGE KUNTIGHAT



CHAINAGE 135.2 Km RAILWAY BRIDGE KUNTIGHAT_1

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 134.9 Km BRIDGE KUNTIGHAT



CHAINAGE 134.4 Km CONCRETE STRUCTURE NITYANANDPUR

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 134.3 Km KOTTAPARA



CHAINAGE 133.9 Km CONCRETE STRUCTURE NITHYANANDPUR

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 133.3 Km CONCRETE LADDER DAKSHIN GOPALPUR



CHAINAGE 133.02 Km METAL BRIDGE AND CONCRETE BRIDGE DAKSHIN GOPALPUR

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 133.9 Km NITHYANANDPUR



CHAINAGE 132.14 Km LOCK GATE GOPALPUR

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 131.9 Km CULVERT KHALSI



CHAINAGE 131.58 Km HIGH TENSION ELECTRIC LINE KHALSI

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 131.156 Km BRIDGE KHALSI



CHAINAGE 129.92 Km BRIDGE DIGSUI

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 128.80 Km TARAGOON



CHAINAGE 128.80 Km CULVERT TARAGOON

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 127.70 Km BRIDGE CHANPARAI



PULLING SURVEY BOAT

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



SURVEY BOAT AT CHAINAGE 132.0 Km



CHAINAGE 120.70 Km

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 126.21 Km LOCK GATE HOERA



CHAINAGE 126.21 Km LOCK GATE HOERA_1

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 126.21 Km LOCK GATE HOERA_2



CHAINAGE 126.21 Km LOCK GATE HOERA_3

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 125.419 Km UNDERPASS CANAL MADHUSUDANPUR



CHAINAGE 124.281 Km BRIDGE BAGANPARA (LOWKHA GHAT)

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 123.00 Km BRIDGE TANBA



CHAINAGE 122.326 Km UNDERPASS CANAL NIALA

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 119.295 Km BRIDGE PANDUA CHANDANI MARKET



CHAINAGE 119.177 Km LOCK GATE PANDUA

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 118.44 Km CONCRETE LADDER PANDUA



CHAINAGE 118.42 Km BRIDGE PANDUA(BHAJANPUR)

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 117.785 Km CULVERT MAHADEBPUR



CHAINAGE 116.59 Km BAMBOO BRIDGE ILAMPUR

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 115.677 Km BRIDGE TINNA



CHAINAGE 14.845 Km TINNA

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 114.773 Km CULVERT TINNA



CHAINAGE 113.929 Km UNDERPASS CANAL SIMLAGARH

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 113.615 Km CULVERT SIMLAGARH



CHAINAGE 113.21 Km CULVERT PANCH GARA

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 112.05 Km BRIDGE CHAU BERA



CHAINAGE 110.928 Km SMALL FERRY POINT BOINCHI GRAM

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 110.013 Km CULVERT BOINCHI GRAM



CHAINAGE 108.264 Km BRIDGE BOINCHI(BATIKA)

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 108.188 Km CULVERT MALLIKPUR



CHAINAGE 105.942 Km CULVERT KOCHMALI

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 105.942 Km SMALL CANAL KOCHMALI



CHAINAGE 105.436 Km CULVERT KOCHIMALI

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 104.557 Km PUMP HOUSE DEBIPUR



CHAINAGE 103 Km MOBAROKPUR

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 101.379 Km CULVERT BAGILA



CHAINAGE 100.368 Km CULVERT BAGILA

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 99.898 Km BRIDGE BAGILA



CHAINAGE 98.854 Km RAILWAY BRIDGE BAGILA(NUDIPUR)

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 98.347 Km BRIDGE BAGILA (GODHIPUR)



CHAINAGE 98.246 Km DRAINAGE BAGILA (GODHIPUR)

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 98.227 Km CEMETRY BAGILA (NUDIPUR)



CHAINAGE 96.907 Km CONCRETE LADDER AND WOODEN BRIDGE DILALPUR

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 95.035 Km BRIDGE KHANRO SARANI(JOLASAGAR)



CHAINAGE 96.46 Km CULVERT KHANRO SARANI

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 94.959 Km CULVERT KHANRO SARANI (JOLASAGAR)



CHAINAGE 92.603 Km BRIDGE MAHESH DANGA

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 92.437 Km BROKEN CULVERT MAHESH DANGA



CHAINAGE 89.735 Km BRIDGE NH KANAI DANGA

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 89.337 Km BROKEN WOODEN BRIDGE CHANCHAI



CHAINAGE 88.66 Km GAS PIPE LINE CROSSING OVER CHANCHAI_1

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 88.47 Km RAILWAY BRIDGE CHACHAI



CHAINAGE 88.025 Km LOCK GATE MAHESPUR

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 88.025 Km LOCK GATE MAHESPUR_1



CHAINAGE 86.242 Km LOCK GATE PALLA COLONY

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 86.242 Km SUB CANAL TO NORTH LOCK GATE PALLA COLONY



CHAINAGE 84.491 Km BRIDGE PASCHIM PALLA

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 84.373 Km CONCRETE LADDER PALLA



CHAINAGE 82.259 Km WOODEN BRIDGE DAKSHIN GOPALPUR

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 81.963 Km LOCK GATE DAKSHIN GOPALPUR (ROOPNATH PALLI)



CHAINAGE 80.984 Km BRICK KILN TOTPARA

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 80.826 Km UNDER PASSING CANAL TOTPARA



CHAINAGE 79.08 Km BRIDGE BELNA

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 78.089 Km BRIDGE AMIRPUR



CHAINAGE 76.764 Km LOCK GATE CHAITPUR

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 76.764 Km LOCK GATE CHAITPUR_1



CHAINAGE 75.82 Km TO 75.376 Km STONE PITCHING AT DVC CANAL CHAITPUR

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 74.595 Km BRIDGE PAMRA



CHAINAGE 74.548 Km CONCRETE PAVEMENT AT DVC PAMRA

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 73.026 Km BRIDGE PALLA



CHAINAGE 72.074 Km CONCRETE LADDER SIBATLA

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 71.51 Km BRIDGE BECHARHAT



CHAINAGE 71.461 Km CONCRETE LADDER BECHARHAT

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 69.697 Km LOCK GATE SADHARGHAT BURDWAN



CHAINAGE 69.446 Km BRIDGE SADHARGHAT BURDWAN

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 66.902 Km BRIDGE ANJIR BAGAN



CHAINAGE 65.96 Km BRIDGE KANCHAN NAGAR

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 65.679 Km LOCK GATE KANCHAN NAGAR



CHAINAGE 64.87 Km UNDERPASS CANAL UDAYPALLI

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 62.89 Km UNDERPASS CANAL ISUFABAD



CHAINAGE 61.149 Km RICE MILL KASIMPUR

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 58.713 Km BRIDGE NALA



CHAINAGE 58.614 Km RICE FACTORY NABABHAT

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 58.018 Km RAILWAY BRIDGE UNDER CONSTRUCTION NABABAHT



CHAINAGE 56.559 Km BRIDGE SASANGA

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 55.924 Km CONCRETE LADDER SASANGA



CHAINAGE 53.49 Km CULVERT MOHANPUR

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 51.369 Km BRIDGE URA-DALIMGARYA



CHAINAGE 49.925 Km CULVERT SHARUL

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 49.208 Km UNDERPASS CANAL DALPUR



CHAINAGE 47.721 Km DARBARPUR

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 47.721 Km LOCK GATE CUM BRIDGE DARBARPUR



CHAINAGE 47.721 Km LOCK GATE CUM BRIDGE DARBARPUR_2

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 47.721 Km LOCK GATE CUM BRIDGE DARBARPUR_3



CHAINAGE 45.953 Km WOODEN BRIDGE KHETURA

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 45.808 Km BRIDGE KHETURA_1



CHAINAGE 44.7 Km UNDERPASS CANAL HARIPUR

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 43.192 Km LOCK GATE RAMPUR



CHAINAGE 43.192 Km LOCK GATE RAMPUR_2

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 41.458 Km UNDERPASS CANAL SUJAPUR



CHAINAGE 40.233 Km BRIDGE PURSA

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 39.953 Km LOCK GATE PURSA



CHAINAGE 28.483 Km BRIDGE PARDAH

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 26.824 Km LOCK GATE KRISHNARAMPUR



CHAINAGE 22.654 Km LOCK GATE TO DAMODAR RIVER RANDIHA

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 22.214 Km BRIDGE SHALDANGA



CHAINAGE 22.057 Km CULVERT SHALDANGA

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 19.95 Km BRIDGE BHARATPUR



CHAINAGE 16.59 Km LOCK GATE CUM BRIDGE PRAYAGPUR

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 16.546 Km BRIDGE PRAYAGPUR



CHAINAGE 14.351 Km CONCRETE LADDER SHOKNA

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 13.507 Km HIGH TENSION LINE SHOKNA



CHAINAGE 10.576 Km CONCRETE LADDER RAJBANDH

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 6.573 Km HIGH TENSION LINE BANSKOPA



CHAINAGE 2.0 Km BRIDGE NETAJI SUBHASH PALLY

Consultancy Services for preparation of Two Stage Detailed Project Report (DPR) of National Waterway 34, Cluster-III: DVC Canal



CHAINAGE 0.175 Km LOCK GATE SUKUMARNAGAR



CHAINAGE 0.175 Km LOCK GATE SUKUMARNAGAR

Annexure 4: Drawings