

**Proceedings of the Virtual (On-line) Pre-bid meeting held on 16<sup>th</sup> January, 2023 for the “Fairway Maintenance on performance-based dredging in Farakka - Katwa (199 km) Stretch of National Waterway -1 (River Ganga)”**

The following attended the meeting:

**I. IWAI**

- (i) Sh. Ravi Kant, Chief Engineer & Project Manager (JMVP), IWAI
- (ii) Sh. S K Pandita, Sr. Consultant (Procurement – II), PMU, JMVP
- (iii) Sh. Prashant Pratap Singh, Sr. Consultant (Procurement – I), PMU, JMVP
- (iv) Sh. Anishu Rahman, Sr. Consultant (CE – III), PMU, JMVP

**II. M/s Reach Dredging Ltd.**

- (i) Sh. Santosh Kumar
- (ii) Sh. Rahil
- (iii) Sh. Pankaj Kumar

**III. M/s Adani Ports and SEZ Ltd.**

- (i) Sh. Gundip Ahluwalia

**IV. M/s Northernexpress Infradevelopers P Ltd.**

- (i) Sh. Sunil Kumar Singh
- (ii) Sh. Prince Singh

**V. M/s IMS Ship Management Pvt. Ltd.**

- (i) Sh. Santosh Selvam

2. The written queries and queries put forth during the meeting were answered and explained to the satisfaction of the prospective bidders and are captured in the clarification attached as Annex-1. The amendment sheet resulting from it is attached as Annex-2.

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**Response of Pre Bid Queries**

**Name of the Work:** Fairway Maintenance on performance-based dredging in Farakka - Katwa (199 km) Stretch of National Waterway -1 (River Ganga)

**Contract Package No:** IN-IWAI-332926-CW-RFB

<b>Sr. No.</b>	<b>Section No. Clause, Sub Clause No. and Page No.</b>	<b>Tender Clause</b>	<b>Query</b>	<b>IWAI Response</b>
1	Clause 3 (B), Page 4	Similar Work, Experience of having successfully completed similar works i.e., dredging on rivers or ports or contract management of vessels, manning of vessels or vessel related marine works or similar nature of works during last 7 years ending last day of month previous to the one in which this tender is invited	Excavation works carried out in Dams/Excavation works should also be included as a part of Similar work criteria to give infrastructure companies to diversify	Dams are excavated in dry conditions, IWAI is looking for experience of dredging works / wet excavation. No changes, tender conditions prevail.
2	Clause No.: 14.7, Page 20	All duties, taxes, and other levies payable by the Contractor under the Contract, or for any other cause, as applicable on the deadline for submission of Bids, shall be included in the rates and prices and the total bid price submitted by the Bidder.	Please clarify any royalty or CESS is applicable for this contract	Royalty is not applicable and Labour cess is applicable for this work.
3	Clause No.: 40, Page 31	Unbalanced or Front Loaded Bids	Please specify the percentage	Please refer to ITB, Clause 40. No changes, tender conditions prevail.
4	Clause No.: 11.2(j), Page 39	The Bidder shall submit Management Strategies and Implementation Plans (MSIP) to manage the following key Environmental, Social, Health and Safety (ESHS) risks.	We understand the this plans has to be submitted after award of the contract. Please clarify	MSIP is to be submitted as part of technical bid at the time of submission of bid.
5	Clause No.: 2(ii), Page 47	The requirement for dredging sediment volumes in shallow waterways; placing dredged materials in-stream; and, early detection and quantification of hazardous sediment and its removal; and any hazardous sediment if found during the dredging shall be removed by the bidder at no extra cost.	This clause should be deleted or the cost incurred for disposal of hazardous sediments should be paid by IWAI.	EMP is provided in the bid document, bidders are advised to study the same and submit their bid accordingly. The quoted cost by the bidder will be inclusive of all the work specified in the bid document. No changes, tender conditions prevail.

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
6	Clause 4, Page 48	The proposed layout of the Contractor's facilities and equipment, including offices and accommodation units based on the proposed sites and waterways routes;	Should be allowed to submit after the award of the contract	No changes, tender conditions prevail.
7	Clause 2.4.1, Page 54	Experience under construction contracts for similar works such as those pertaining to General Dredging Experience in Ports / River / Lakes/Canals / Water Bodies, including Management of Vessel and Manning of Vessel or Vessel related Marine Works <ul style="list-style-type: none"> <li>• River Dredging and management of dredging materials.</li> <li>• Dredged material used in reclamation of port/harbour will also be considered.</li> </ul> in the role of contractor, JV member, sub-contractor, or management contractor for at least the last seven [7] years prior to the bid submission deadline.	All parties combined should be allowed to satisfy this criteria and Excavation works carried out in Dams/Excavation works should also be included as a part of Similar work criteria to give infrastructure companies for wider participation in the tender.	All the JV members should have experience of any work mentioned in Section III, Clause 2.4.1. For inclusion of works carried out in Dams, please refer response query no. 1. No changes, tender conditions prevail.
8	Clause 2.4.2 (b), Page 57	Bidder should have successfully completed as a prime contractor, JV members, management contractor or sub-contractor, minimum Three similar works each costing not less than INR 8.72 Crs Or Two similar works each costing not less than INR 10.90 Crs Or One similar works costing not less than INR 17.44 Crs within the last seven (7) years (FY 2015-16 to FY 2021-22), which is similar to the proposed works. The similarity shall be based on the physical size, complexity, methods/technology or other characteristics as described in Section VII, Employer's requirements.	We propose to consider similar works carried out in the last 10 years (FY 2012-13 to FY 2021-22) to be considered.	No changes, tender conditions prevail.

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
9	Clause 2.4.2 (b), Page 57	<p>Bidder should have successfully completed as a prime contractor, JV members, management contractor or sub-contractor, minimum  Three similar works each costing not less than INR 8.72 Crs  Or  Two similar works each costing not less than INR 10.90 Crs  Or  One similar works costing not less than INR 17.44 Crs within the last seven (7) years (FY 2015-16 to FY 2021-22), which is similar to the proposed works. The similarity shall be based on the physical size, complexity, methods/technology or other characteristics as described in Section VII, Employer's requirements.</p>	<p>The Clause can be modified as:  Bidder should have successfully completed as a prime contractor, JV members, management contractor or sub-contractor, minimum  Three similar works each costing not less than INR 8.72 Crs  Or Executed quantity not less than 1,72,000 CBM.  Two similar works each costing not less than INR 10.90 Crs  Or Executed quantity not less than 2,15,000 CBM.  One similar works costing not less than INR 17.44 Crs or Executed quantity not less than 3,50,000 CBM.  within the last 10 years (FY 2012-13 to FY 2021-22), which is similar to the proposed works.  The similarity shall be based on the physical size, complexity, methods/technology or other characteristics as described in Section VII, Employer's requirements.</p>	<p>The clause is amended and quantities are included, please refer the Amendment sheet.</p>

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
10	Clause 2.4.2 (b), Page 59	b) For the above or other contracts executed during the period stipulated in 2.4.2(a) above, at least in one year a minimum construction experience in any of the following key activities: a. Dredging Experience in Ports / River / Canal / Water bodies Or b. Manning of Vessel/Vessel related Marine works Or c. Management of Vessel in River / Sea	All parties combined should be allowed to satisfy this criteria and Excavation works carried out in Dams/Excavation works should also be included as a part of Similar work criteria for wider participation in the tender	Please refer response to query no. 7.
11	Clause 2.4.2 (c), Page 59	Specific Experience in managing ES aspects	This Clause can be deleted as it restricts qualification of most of the dredging companies which reduces the competitiveness of the tendering process.	ES aspects are a requirement of the World Bank. No changes, tender conditions prevail.
12	Clause 2.4.2 (d), Page 60	Assessed Available bid capacity	All parties combined should be allowed to satisfy this criteria.	For participation as JV, Lead member should meet 50% and other members each should meet 25% of the requirement, as specified in the bid document. No changes, tender conditions prevail.
13	Clause 2.4.2 (d), Page 60	A = Maximum value of civil engineering works executed in any one year during the last five years (updated to the price level of the financial year ..... at the rate of 5% per year), taking into account the completed as well as works in progress).	Since 2020 & 2021 has been severely affected due to outbreak of Covid, we kindly request you to consider last 7 years for evaluating the financial criteria.	No changes, tender conditions prevail.
14	Clause 2.6(1), Page 63	Contract Manager shall have a bachelor's degree in Civil / Mechanical engineering and an experience of minimum 10 years', out of which at least 7 years shall be in managing projects of similar nature.	Marine Engineers with experience of more than 10 years should also be considered.	No changes, tender conditions prevail.
15	Clause 2.7, Page 64	Equipment (River Worthiness Certificate)	River worthiness certificate should be allowed to submit after the award of contract.	No changes, tender conditions prevail.

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
16	Clause 2.7 (2), Page 64	Multi Beam Echo Sounder	Multi beam echo sounder should not be mandatory as they are used in the surveys where the depth to be recorded is very high. Moreover, they are very expensive and since the depth to be maintained is only 3m, single beam echo sounders should be allowed to carry out the surveys.	IWAI is using Multi beam echo sounders satisfactorily in surveys on NW-1. No changes, tender conditions prevail.
17	Clause 2.7 (4), Page 64	Accommodation Boats River worthiness certificate to be provided at the time of bid submission, from certifying authority.	Accommodation boats should be optional.	Submission of details regarding 'Accommodation Boat' is desirable and not mandatory at the time of bid submission. No changes, tender conditions prevail.
18	Clause 03, Page 133	If the dredger meets any strata such as boulders, ropes, sand stone, stone debris, wooden logs etc., such patches will also continue to be tackled with a modified cutter or cutter teeth like serrated etc. capable for dredging such materials for a length of up to 20 m. Further steps to be taken, should be decided mutually between the Contractor and the Engineer-in-charge, if hard strata exist beyond 20 m.	It is requested that the requirement of dredging strata, boulders & sand stone should be waived off. Also it will be impossible to remove wooden logs, ropes etc with cutter suction dredgers. The scope of dredging should be limited to sand, silt & clay only.	No changes, tender conditions prevail.
19	Clause 06, Page 133	There is substantial braiding in the river which during lean season (Oct / Nov to June) results into shoals at various places which hinder navigation. 2015 Bathymetric survey shows around 91 shoal locations with a total dredge length of about 30.2 kms, in Tribeni- Farakka Stretch with depths less than 3.0 m. The location of shoals in Katwa - Farakka stretch is provided in Annexure C.	Please share with us the latest bathymetry survey report to analyse the no. of shoals and quantity to be dredged during the initial phase.	The relevant details are provided in Annexure A of the Section VII - Works' Requirements. No changes, tender conditions prevail.

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
20	Clause 10, Page 135	In case of slow progress of work, the Engineer-in-charge may direct Service Provider to deploy additional dredgers for completion of the work in time and in such case Service Provider may mobilize additional dredgers without any cost to the Employer.	Please share with us the latest bathymetry survey report to analyse the quantity to be dredged as the no. of dredgers to be deployed can be decided as per the quantity to be dredged.	Please refer response to query no. 19.
21	Clause 11(VI), Page 136	In case any cargo vessel is grounded due to inadequacy of depths or channel marking, the service provider shall make arrangement for rescue of the vessels by providing rescue tugs at his own cost.	Clause should be amended as. In case any cargo vessel is grounded due to reasons attributed to contractor, then the service provider shall make arrangement for rescue of the vessels by providing rescue tugs at his own cost.	No changes, tender conditions prevail.
22	Clause 21(i), Page 143	In the event of non-availability of dumping site, Employer shall not be responsible for delays caused in the dredging operation / maintenance of navigational channel.	Dumping site should be provided by IWAI.	No changes, tender conditions prevail.
23	Clause 21 (J), Page 143	In case obstructions like concrete piles, structures of fishing nets, plastic debris, fallen trees, sunken boats etc. are encountered, those will be removed by the Service Provider and no extra payment on this account shall be admissible to the Service Provider	Contractors should be paid extra for removing external objects from the river bed as this would involve hiring of equipments other than cutter suction dredgers.	No changes, tender conditions prevail.
24	Sr. No.: I, Page 202	'Consent to Establish' and 'Consent to Operate' shall be obtained from State Pollution Control Board under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.	This clause shall be deleted.	No changes, tender conditions prevail.
25	Sr. No.: XII, Page 202	All required noise and vibration control measures are to be adopted in Dredgers. Cutter suction Dredgers should be avoided as much as possible which produces more noise and	This clause shall be deleted.	No changes, tender conditions prevail.

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
		vibration. No Drilling and Blasting is to be carried out.		
26	Sr. No.: XIII, Page 202	Pre geo-tectonic studies has to be completed and the strata to be dredged is predetermined with complete data pertaining to hardness, compressive and tensile strengths.	Should be carried out by the employer	Based on the strata, if required same shall be carried out by Contractor. No changes, tender conditions prevail.
27	Sr. No.: XVIII, Page 202	Disposal places of Dredged sediments needs to be predetermined, along the shore by assessment of suitability, which will not affect the shoreline (erosion) and also causing impacts during monsoon and flooding.	IWAI should do the required assessment and provide suitable disposal area for dumping the dredged spoil	Please refer 'Section VII, Clause 16: Disposal of Dredged Material.' No changes, tender conditions prevail.
28	Sr. No.: XIX, Page 203	As much as possible, it shall not be disposed off in the river itself, and the site should be such that the dispersion is quicker by undertaking modelling studied.	IWAI should do the required assessment and provide suitable disposal area for dumping the dredged spoil	Please refer 'Section VII, Clause 16: Disposal of Dredged Material.' No changes, tender conditions prevail.
29	Clause GCC 47.1, Page 237	Liquidated Damages	Once the contract is awarded and the quantity to be dredged is finalised, sufficient time should be given to the contractor to achieve the LAD without imposing any LD.	Please refer 'Section IX, Clause GCC 1.1 (hh)'. No changes tender conditions prevail.
30			If the water level goes down drastically during the lean seasons due to any reasons which is not attributed to the contractor, then the contractor should be given sufficient time to obtain the LAD without imposing any Liquidated damages or penalty.	A clause is added. Please refer Amendment sheet.



Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
31			If the channel gets filled due to collapse of bandals, due to any reasons which is not attributed to the contractor, then the contractor should be given sufficient time to obtain the LAD without imposing any Liquidated damages or penalty.	No changes, tender conditions prevail.
32			All the charts and diagrams provided in the tender documents are not legible. Please provide clear copy of the same.	Same shall be provided. Additionally, if required, latest survey charts for Farakka – Katwa may be obtained from Regional Offices of IWAI in Kolkata. Please see the amendment sheet.
33			Please provide DPR, LAD and FER report for the stretch.	Chainages of the stretch along with LAD data and no. of shoals in the stretch are provided in Section VII. No changes, tender conditions prevail.
34			Latitude and Longitude of the shoals may please be provided.	Please refer response to query no. 33.

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response																												
35			<p>Following multiplication factor clause to be included to arrive at the current price level to calculate the work experience &amp; Financial criteria:</p> <table border="0"> <tr> <td>Year</td> <td>2021-22</td> <td>–</td> <td>1.0</td> </tr> <tr> <td>Year</td> <td>2020-21</td> <td>–</td> <td>1.1</td> </tr> <tr> <td>Year</td> <td>2019-20</td> <td>–</td> <td>1.21</td> </tr> <tr> <td>Year</td> <td>2018-19</td> <td>–</td> <td>1.33</td> </tr> <tr> <td>Year</td> <td>2017-18</td> <td>–</td> <td>1.46</td> </tr> <tr> <td>Year</td> <td>2016-17</td> <td>–</td> <td>1.60</td> </tr> <tr> <td>Year</td> <td>2015-16</td> <td>–</td> <td>1.75</td> </tr> </table>	Year	2021-22	–	1.0	Year	2020-21	–	1.1	Year	2019-20	–	1.21	Year	2018-19	–	1.33	Year	2017-18	–	1.46	Year	2016-17	–	1.60	Year	2015-16	–	1.75	<p>The multiplication factor is given as 5% as per Section III, Clause 2.4.2 (d). No changes, tender conditions prevail.</p>
Year	2021-22	–	1.0																													
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Year	2019-20	–	1.21																													
Year	2018-19	–	1.33																													
Year	2017-18	–	1.46																													
Year	2016-17	–	1.60																													
Year	2015-16	–	1.75																													
36	<p>Clause No. 2(iii) of Section VII - Works' Requirements, Page 133 and 134</p>	<p>The tentative dredging quantity in Katwa - Farakka (199 Km) stretch is 12.86 Lakh cum for three years. and Katwa - Farakka (199 Km) - Tentative Quantity of 14.438 Lakh Cum to be dredged during the lean season of (7) seven months (November to May) except for flood seasons (June to October).</p>	<p>Quantity to be dredged mentioned on the mentioned Pages are not the same. Hence, we request you to furnish us the exact quantity which is required to be dredged for the said project.</p>	<p>The tentative dredging quantity is 12.86 lakh cum. Please refer the amendment sheet.</p>																												
37	<p>Clause: 8 of Works' Requirements, Page 134</p>	<p>Bathymetric and Topographic Survey</p>	<p>We request you to provide us the following mentioned documents in order to aid us in assessing the said project: - (a) Bathymetric Survey Report (b) Pre-survey Hydro &amp; Topographic Drawings and (c) Bore Log Data Sheet</p>	<p>Chainages of the stretch along with LAD data and no. of shoals in the stretch are provided in Section VII. Additionally, if required, latest survey charts for Farakka – Katwa may be obtained from Regional Offices of IWAI in Kolkata. No changes, tender conditions prevail.</p>																												

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
38		Fairway Maintenance on performance based dredging in Farakka - Katwa (199 km) Stretch of National Waterway - 1 (River Ganga).	We request you to provide the exact Latitudinal & Longitudinal Locations of the desired dredging Zones of the Farakka - Katwa (199 km) Stretch.	Please refer to response to query no. 33.
39	ITB 20.2 of BDS, page 41	The written confirmation of authorization to sign on behalf of the Bidder shall consist of:	Due to non-availability of any Format on "Power of Attorney", we request the authority to provide a format on the same.	A general standard Power of Attorney shall be used containing authorization to sign the contract. No changes, tender conditions prevail.
40	Eligibility and Qualification Criteria		It is pertinent to mention that the Similar work criteria for the tender is not in accordance with CVC guidelines / Procurement manual issued by Ministry of Finance, Government of India. The conditions have been relaxed by more than 60%. It may be noted that as per the guidelines, the pre-qualification criteria specified in the tender document should neither be made very stringent nor very lax to restrict/ facilitate the entry of bidders.  Such relaxation will result in	The Eligibility and Qualification Criteria were relaxed in order to get better participation. No changes, tender conditions prevail.

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
			incompetent bidders to get this contract who are neither technically nor financially capable of completing this contract. Hence it is humbly requested to kindly follow the guidelines and keep the similar work criteria as per the guidelines so that fair competition is ensured.	
41	Section I - Instruction to Bidders, Cl 7.2, page 15	The Bidder is advised to visit and examine the Site of Works and its surroundings and obtain for itself. on its own risk and responsibility, all information that may be necessary for preparing the bid and entering a contract for construction of the Works. The costs of visiting the Site shall be at the Bidder's own expense.	If a collective visit is being organized by IWAI. please do apprise the interested bidders of the date and time of the visit	For site visit bidders are advised to contact: Director, Inland Waterways Authority of India, P-78, Garden Reach Road, Kolkata – 700043, West Bengal Mail ID: dirkol@iwai.gov.in, Phone nos. 033-24390393 & 24395577 Please refer amendment sheet.
42	Section VII - Work Requirements, Cl 2 8- 8, page 133	Cl2: The tentative dredging quantity in Katwa - Farakka (199 Km) stretch is 12.86 Lakh cum for three years. Cl8: The tentative dredging quantity in Farakka - Katwa (199 Km) stretch is approx. 14.438 Lakh cum for three years.	Please clarify the actual quantity.	Please refer to response to query no. 36.

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response																								
43	Section IX - PCC > GCC 13.1 (add new 13.6), Page 224	<p>1. Insurance of Works: Contractor is required to take Contractor's All Risk Policy or erection all risk policy (as the case may be) from an approved insurance company in the joint name with the Employer and bear all costs towards the same for the full period of execution of works including the defect liability period for the full amount of contract against all loss of damage from whatever cause arising other than excepted risks for which he is responsible under the terms of the contract and in such manner that the Employer and the contractor are covered during the period of construction of works and/or also covered during the period of defect liability for loss or damage</p> <p>A. The work and the temporary works to the full value of such works</p> <p>B. The materials, construction plant, centering, shuttering and scaffolding materials and other things brought to the site for their full value. Whenever required by the Employer. the contractor shall produce the policy or the policies of insurance and the receipts for payment of the current premium.</p>	This clause is not applicable for the Dredging as this is used for Civil Construction Contracts. Request you to remove this clause.	No changes, tender conditions prevail.																								
44	Section IX - PCC > GCC 20.1, Page 229	<p>The Site Possession Date(s) shall be: [insert location and date(s)]</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 15%;">The Site</td> <td style="width: 15%;">Possession</td> <td style="width: 15%;">Dates</td> <td style="width: 15%;">shall</td> <td style="width: 15%;">be:</td> <td style="width: 20%;"></td> </tr> <tr> <td>Section</td> <td>1</td> <td></td> <td></td> <td></td> <td>_____</td> </tr> <tr> <td>Section</td> <td>2</td> <td></td> <td></td> <td></td> <td>_____</td> </tr> <tr> <td>Section</td> <td>3</td> <td></td> <td></td> <td></td> <td>_____</td> </tr> </table>	The Site	Possession	Dates	shall	be:		Section	1				_____	Section	2				_____	Section	3				_____	This clause is irrelevant to this Contract, therefore, should be removed.	Please refer Section IX, Clause GCC 1.1 (dd). No changes, tender conditions prevail.
The Site	Possession	Dates	shall	be:																								
Section	1				_____																							
Section	2				_____																							
Section	3				_____																							

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45	Section IX - PCC, (Add GCC 26.3), Page 232	The period between Program updates is _____ [insert number] days. The amount to be withheld for late submission of an updated program is _____ [insert amount say Rs. 500,000].	The amount is unwarranted and will result in unwanted disputes. Requesting the authority to remove this clause.	The period between Program updates is 90 days. The amount to be withheld for late submission of an updated program is Rs. 500,000. Please refer the Amendment sheet.
46	Section IX - PCC, GCC 40.3, Page 234	The scale of survey should be 1:5000 for all four weekly surveys in the month. Contractor will prepare the survey charts and submit to Employer for approval along with soft copy. Echo roll, Measurement Book etc. related to the measurement. Employer will issue the approved charts to the Contractor.	Request you remove the requirement of the Echo roll & Measurement Book as they will not work with a Multibeam echosounder.	Echo roll is deleted. Please refer the Amendment sheet.
47	Section IX - PCC, GCC 41.3, Page 235	Interest rate for Delayed payment is 7.75% per annum (insert the number corresponding to the State Bank of India prime lending rate).	Request to consider the prevailing State Bank of India Prime lending rate + 2% during the entire duration of the contract.  Request to reinstate as per earlier tender i.e. 8%.	No changes, tender conditions prevail.
48	Section IX - PCC, GCC 47.1, Page 237	The Liquidated Damages (LD) is applicable. During Performance based maintenance period, if in any stretch of the channel, available depth or bottom width of channel is found to be less than that specified in Section VI, Part A – Description of Works and Services, as determined during the course of weekly joint surveys conducted in accordance with GCC 34, deduction shall be made from the Contractor’s monthly bills as following:	Please remove this word Liquidated Damages (LD) as it is misleading. The given calculation is a penalty rather than a LD.	No changes, tender conditions prevail.

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49	Section IX - PCC, GCC 47.1, Page 237	<p><b>Table</b></p> <table border="1"> <thead> <tr> <th data-bbox="506 411 562 528">Sl. no</th> <th data-bbox="562 411 943 528">Deductions for the Assured Depth Period of services from the Date of Commencement of Service LAD → 3.0 M &amp; CBW → 45 M</th> <th data-bbox="943 411 1234 528">Deduction to be applied as percentage of monthly bill for each non-compliance found in a joint weekly survey during the month</th> </tr> </thead> <tbody> <tr> <td data-bbox="506 528 562 584">1</td> <td data-bbox="562 528 943 584">On achieving the assured depth of 3.0 m &amp; width of 45 m</td> <td data-bbox="943 528 1234 584">Nil</td> </tr> <tr> <td data-bbox="506 584 562 639">2</td> <td data-bbox="562 584 943 639">On achieving the assured depth of 2.9 m &amp; width of 45 m</td> <td data-bbox="943 584 1234 639">20% for each weekly default</td> </tr> <tr> <td data-bbox="506 639 562 695">3</td> <td data-bbox="562 639 943 695">On achieving the assured depth of 2.8m &amp; width of 45 m</td> <td data-bbox="943 639 1234 695">30% for each weekly default</td> </tr> <tr> <td data-bbox="506 695 562 751">4</td> <td data-bbox="562 695 943 751">On achieving the assured depth of 2.7 m &amp; width of 45 m</td> <td data-bbox="943 695 1234 751">50% for each weekly default</td> </tr> <tr> <td data-bbox="506 751 562 788">5</td> <td data-bbox="562 751 943 788">For a depth less than 2.7 m &amp; width of 45 m</td> <td data-bbox="943 751 1234 788">100% for each weekly default</td> </tr> </tbody> </table>	Sl. no	Deductions for the Assured Depth Period of services from the Date of Commencement of Service LAD → 3.0 M & CBW → 45 M	Deduction to be applied as percentage of monthly bill for each non-compliance found in a joint weekly survey during the month	1	On achieving the assured depth of 3.0 m & width of 45 m	Nil	2	On achieving the assured depth of 2.9 m & width of 45 m	20% for each weekly default	3	On achieving the assured depth of 2.8m & width of 45 m	30% for each weekly default	4	On achieving the assured depth of 2.7 m & width of 45 m	50% for each weekly default	5	For a depth less than 2.7 m & width of 45 m	100% for each weekly default	<p>Please replace as follows:</p> <table border="1"> <tbody> <tr> <td data-bbox="1256 411 1559 528">Deduction to be applied as percentage of monthly bill for each non-compliance found in a joint weekly survey during the month</td> </tr> <tr> <td data-bbox="1256 528 1559 584">Nil</td> </tr> <tr> <td data-bbox="1256 584 1559 639">5% for each weekly default</td> </tr> <tr> <td data-bbox="1256 639 1559 695">7.5% for each weekly default</td> </tr> <tr> <td data-bbox="1256 695 1559 751">12.5% for each weekly default</td> </tr> <tr> <td data-bbox="1256 751 1559 788">25% for each weekly default</td> </tr> </tbody> </table>	Deduction to be applied as percentage of monthly bill for each non-compliance found in a joint weekly survey during the month	Nil	5% for each weekly default	7.5% for each weekly default	12.5% for each weekly default	25% for each weekly default	No changes, tender conditions prevail.
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50	Section IX - PCC, GCC 47.1, Page 237	If a weekly joint survey establishes that the Service Provider failed to maintain the navigational marks according to stipulations in Section VII, Part A Description of Services to the Contract, deductions shall also be made from the respective monthly bill @ 5% of the verified payable amount for each such weekly default.	Request you to change this deduction to the amount of 1%, as is applicable with similar projects.	No changes, tender conditions prevail.																								
51	Section IX - PCC, GCC 49.1, Page 238	GC 49.1 to be read as: The amount of the Advance Payment is ten (10) percent of the Contract Price.	Please confirm that the advance payment is going to be ' <b>interest free</b> ' advance.	Yes, the advance payment is interest free.																								
52	Section IX - PCC, GCC 50.1, Page 239	"GCC 50.1 is replaced with the following The Contractor shall, within twenty-eight (28) days of the notification of contract award, provide a Performance Security and an Environmental, Social, Safety and Health	Pursuant to Circular No. F 9/4/2020-PPD, Govt. of India, Ministry of Finance, Dept. of Finance, Procurement policy	For a World Bank project – the procurement guidelines of the World Bank are to be followed.																								

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
		<p>(ESHS) Performance Security for the due performance of the Contract.</p> <ul style="list-style-type: none"> <li>The Performance Security will be in the form of a ‘demand guarantee’ in the amount of 5 % of the contract amount in the types and proportions of the currencies in which the Contract Price is payable, or in a freely convertible currency acceptable to the Employer.</li> <li>The ESHS Performance Security will be in the form of a “demand guarantee” in the amount(s) of 1.5% of the Contract Amount and in the same currency(ies) of the Accepted Contract Amount.</li> </ul>	<p>Division, reduced the Performance Security from existing 5-10% to 3% of the Contract.</p> <p>Request you to change the Performance security to 1.5%, so that there is a cumulative 3% which includes the ESHS performance security of 1.5% as well.</p>	<p>No changes, tender conditions prevail.</p>
52	PCC, GCC 58.1, Page 241	<p>The percentage to apply to the value of the work not completed, representing the Employer’s additional cost for completing the Works, is 20%.</p>	<p>The maximum applicable penalty cannot be more than the performance security hence request to remove this clause.</p>	<p>No changes, tender conditions prevail.</p>
53	Section I - Instruction to Bidders, Cl 7.2, page 15	<p>The Bidder is advised to visit and examine the Site of Works and its surroundings and obtain for itself. on its own risk and responsibility, all information that may be necessary for preparing the bid and entering a contract for construction of the Works. The costs of visiting the Site shall be at the Bidder's own expense.</p>	<p>If a collective visit is being organized by IWAI. please do apprise the interested bidders of the date and time of the visit.</p>	<p>Please refer to response to query no. 41.</p>
54	Section I – Instruction to Bidders,	<p>Bids remain valid for 90 days...</p>	<p>Not aligned with ITB 18.1 as per BDS.</p>	<p>Bid validity shall be 120 days. Please refer to clause 18.1 of BDS.</p>



Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
	Clause 18.1, Page 21			No changes, tender conditions prevail.
55	ITB 18.1 Page 40	The bid validity period shall be 120 days	Request to keep 60 days as committing the equipment for long bid validity may have adverse impact on cost.	No changes, tender conditions prevail.
56	ITB 33.3 Page 42	<p>(a) Contractor's proposed subcontracting: Maximum percentage of subcontracting permitted is: 25% of the total contract amount.</p> <p>(b) Bidders planning to subcontract more than 10% of total volume of work shall specify, in the Letter of Bid, the activity (ies) or parts of the works to be subcontracted along with complete details of the sub-contractors and their qualification and experience. The qualification and experience of the sub-contractors must meet the minimum criteria for the relevant work to be sub-contracted failing which such sub-contractors will not be permitted to participate.</p> <p>(c) Sub-contractors' qualification and experience will not be considered for evaluation of the Bidder. The Bidder on its own (without taking into account the qualification and experience of the sub-contractor) should meet the qualification criteria.</p>	Please keep this within 10% limit as per earlier tenders and also stated at different clauses in the same tender document.	No changes, tender conditions prevail.

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
		[Note: Work should not be split into small parts and sub-contracted].		
57	Section VII - Work Requirements, CI 2 8- 8, page 133	CI2: The tentative dredging quantity in Katwa - Farakka (199 Km) stretch is 12.86 Lakh cum for three years. CI8: The tentative dredging quantity in Farakka - Katwa (199 Km) stretch is approx. 14.438 Lakh cum for three years.	Request to maintain same quantity at all locations.	Please refer to response to query no. 36.
58	Section VII, Clause 19, Multi Beam Echo Sounder, Page 142	<p>Multi Beam Echo Sounder</p> <p>The digital echo sounder for hydrographic surveys shall in principle be operated in the 210 kilo Hertz range (narrow beam transducer). It shall not be permitted for any reason to use a lower operational frequency of the echo sounder for the Post-dredging survey than that has been used for the Pre-dredging survey. The digital echo sounder shall have an accuracy of not less than 0.1 m.</p> <p>At the start of each hydrographic survey, the AHSS is to be calibrated to the specified accuracy. To this effect, the Contractor shall establish a fixed point (or fixed points) with known coordinates such that the survey boat can easily be positioned with the transducer of the echo-sounder always in the same position relative to the calibration point.</p>	Request to specify a range between 200 – 450 kHz as standard multibeam range.	No changes, tender conditions prevail.

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
59	Clause 21, Other conditions, Page 143	(f) The Service Provider may execute the work round the clock and on all days including Sundays and Public Holidays with the permission of the Engineer-in-charge in writing excepting National Holidays and subject to such restrictions as may be imposed by State Govt./local body.	Please confirm as no time restriction for working in this stretch.	Dredging operations are to be carried out as per Section VII, Clause 21 except to minimize noise impacts on the residents of nearby settlements. Dredgers to be equipped with Noise reduction / masking equipment to reduce noise generation. No changes, tender conditions prevail.
60	GCC 7.1, Page 222	The ceiling for sub-contractor is 25% [This is in addition to what was stated in bid and incorporated in contract agreement.]. Hiding information about any sub-contracting not authorized by the Employer shall be treated as violation of Appendix A to General Conditions (Fraud and Corruption).	Maximum sub-contract shall be 10% as mentioned in earlier contracts. Please clarify.	Please refer to Clause GCC 7.1 and GCC 8.1. No changes, tender conditions prevail.
61	GCC 9.1, Page 223	..... The Project Manager shall approve any proposed replacement of Key Personnel and equipment only if their relevant qualifications or characteristics are substantially equal to or better than those proposed in the Bid.....	Please replace. .....The Project Manager shall approve any proposed replacement of Key Personnel and equipment only if their relevant qualifications or characteristics are substantially equal or better to or better than those as specified for qualification in the Bid.....	No changes, tender conditions prevail.

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
62	GCC 9.10, Page 223 & 224	<p>The following is inserted as GCC 9.10:</p> <p>“The Contractor shall provide the Contractor’s Personnel information and documentation that are clear and understandable regarding their terms and conditions of employment. The information and documentation shall set out their rights under relevant labour Laws applicable to the Contractor’s Personnel (which will include any applicable collective agreements), including their rights related to hours of work, wages, overtime, compensation and benefits, as well as those arising from any requirements in the Specification; and shall also include the Code of Conduct for Contractor’s Personnel. The Contractor’s Personnel shall be informed when any material changes to their terms or conditions of employment occur.”</p>	<p>Sharing internal employment documents is breach of contract between employee and employer.</p> <p>Rather Contractor shall produce all compliances as required for Employment (such as PPF contribution etc.) to support the same.</p> <p>Please amend accordingly.</p>	<p>No changes, tender conditions prevail.</p>
63	GCC 13.1 (add new 13.6), Page 224	<p>1. Insurance of Works</p> <p>Contractor is required to take Contractor’s All Risk Policy or erection all risk policy (as the case may be).....</p>	<p>Please remove the complete clause as GCC 13.1 suffice the requirement.</p> <p>This was never part of earlier bids.</p> <p><i>Since the contract is for maintaining the LAD on weekly basis by using, this clause will</i></p>	<p>Please refer to response to query no. 43.</p>

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
			<p><i>not be applicable and was not the part of earlier contracts.</i></p> <p>Scope of Work as defined in Clause 2, Section VII (page 132) clarifies that no constructional activities are involved.</p>	
64	GCC 16.1 (add new 16.2), Page 228	<p>ES Management Strategies and Implementation Plans</p> <p>The following is inserted as a new sub-clause 16.2:</p> <p>“16.2 The Contractor shall not carry out mobilization to Site (e.g. limited clearance for haul roads, site accesses and work site establishment, geotechnical investigations or investigations to select ancillary features such as quarries and borrow pits) unless the Project manager gives consent, a consent that shall not be unreasonably delayed, that appropriate measures are in place to address environmental and social risks and impacts, which at a minimum shall include applying the Management Strategies and Implementation Plans (MSIPs) and Code of Conduct for Contractor’s Personnel submitted as part of the Bid and agreed as part of the Contract.....</p>	<p>This is again applicable for construction related projects.</p> <p>Please remove.</p> <p>Scope of Work as defined in Clause 2, Section VII (page 132) clarifies that no constructional activities are involved.</p>	<p>No changes, tender conditions prevail.</p>
65	Section IX - PCC >	<p>The Site Possession Date(s) shall be: [insert location and date(s)]</p> <p>The Site Possession Dates shall be:</p>	<p>This clause is irrelevant to this Contract.</p>	<p>Please refer to response to query no. 44.</p>

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
	GCC 20.1, Page 229	Section 1 _____ Section 2 _____ Section 3 _____	Please remove.	
66	GCC 24.4, Page 229	The procedure for adhoc arbitration will be as follows. (a) In case.....	At many places the guideline for inserting the clause / clarification has not been deleted or amended. Request to share the clean version to analyze the clause in totality.	A clean version of the clause is provided. Please refer amendment sheet.
67	Section IX - PCC, (Add GCC 26.3), Page 232	The period between Program updates is _____ [insert number] days. The amount to be withheld for late submission of an updated program is _____ [insert amount say Rs. 500,000].	The amount is unwarranted and will result in unwanted disputes.  Please remove.	Please refer to response to query no. 45.
68	Section IX - PCC, GCC 40.3, Page 234	The scale of survey should be 1:5000 for all four weekly surveys in the month. Contractor will prepare the survey charts and submit to Employer for approval along with soft copy. Echo roll, Measurement Book etc. related to the measurement. Employer will issue the approved charts to the Contractor.	Request you remove the requirement of the Echo roll & Measurement Book as they will not work with a Multibeam echosounder.	Please refer to response to query no. 46.
69	GCC 41.1, Page 235	Interest rate for Delayed payment is 7.75% per annum (insert the number corresponding to the State Bank of India prime lending rate).	Request to reinstate as per earlier tender i.e. 8%.	Please refer to response to query no. 47.

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70	GCC 47.1, Page 237	GC 47.1 to be read as The Liquidated Damages (LD) is applicable.	Request to remove this word Liquidated Damages (LD) as it is misleading.  Reinstate as per last tender.	Please refer to response to query no. 48.																								
71	Section IX - PCC, GCC 47.1, Page 237	<p><b>Table</b></p> <table border="1" data-bbox="506 596 1238 967"> <thead> <tr> <th data-bbox="506 596 562 715">Sl. no</th> <th data-bbox="562 596 943 715">Deductions for the Assured Depth Period of services from the Date of Commencement of Service LAD → 3.0 M &amp; CBW → 45 M</th> <th data-bbox="943 596 1238 715">Deduction to be applied as percentage of monthly bill for each non-compliance found in a joint weekly survey during the month</th> </tr> </thead> <tbody> <tr> <td data-bbox="506 715 562 762">1</td> <td data-bbox="562 715 943 762">On achieving the assured depth of 3.0 m &amp; width of 45 m</td> <td data-bbox="943 715 1238 762">Nil</td> </tr> <tr> <td data-bbox="506 762 562 810">2</td> <td data-bbox="562 762 943 810">On achieving the assured depth of 2.9 m &amp; width of 45 m</td> <td data-bbox="943 762 1238 810">20% for each weekly default</td> </tr> <tr> <td data-bbox="506 810 562 858">3</td> <td data-bbox="562 810 943 858">On achieving the assured depth of 2.8m &amp; width of 45 m</td> <td data-bbox="943 810 1238 858">30% for each weekly default</td> </tr> <tr> <td data-bbox="506 858 562 906">4</td> <td data-bbox="562 858 943 906">On achieving the assured depth of 2.7 m &amp; width of 45 m</td> <td data-bbox="943 858 1238 906">50% for each weekly default</td> </tr> <tr> <td data-bbox="506 906 562 967">5</td> <td data-bbox="562 906 943 967">For a depth less than 2.7 m &amp; width of 45 m</td> <td data-bbox="943 906 1238 967">100% for each weekly default</td> </tr> </tbody> </table>	Sl. no	Deductions for the Assured Depth Period of services from the Date of Commencement of Service LAD → 3.0 M & CBW → 45 M	Deduction to be applied as percentage of monthly bill for each non-compliance found in a joint weekly survey during the month	1	On achieving the assured depth of 3.0 m & width of 45 m	Nil	2	On achieving the assured depth of 2.9 m & width of 45 m	20% for each weekly default	3	On achieving the assured depth of 2.8m & width of 45 m	30% for each weekly default	4	On achieving the assured depth of 2.7 m & width of 45 m	50% for each weekly default	5	For a depth less than 2.7 m & width of 45 m	100% for each weekly default	Please replace as follows:  <table border="1" data-bbox="1261 596 1563 967"> <thead> <tr> <th data-bbox="1261 596 1563 715">Deduction to be applied as percentage of monthly bill for each non-compliance found in a joint weekly survey during the month</th> </tr> </thead> <tbody> <tr> <td data-bbox="1261 715 1563 762">Nil</td> </tr> <tr> <td data-bbox="1261 762 1563 810">5% for each weekly default</td> </tr> <tr> <td data-bbox="1261 810 1563 858">7.5% for each weekly default</td> </tr> <tr> <td data-bbox="1261 858 1563 906">12.5% for each weekly default</td> </tr> <tr> <td data-bbox="1261 906 1563 967">25% for each weekly default</td> </tr> </tbody> </table>	Deduction to be applied as percentage of monthly bill for each non-compliance found in a joint weekly survey during the month	Nil	5% for each weekly default	7.5% for each weekly default	12.5% for each weekly default	25% for each weekly default	Please refer to response to query no. 49.
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72	Section IX - PCC, GCC 47.1, Page 237	If a weekly joint survey establishes that the Service Provider failed to maintain the navigational marks according to stipulations in Section VII, Part A Description of Services to the Contract, deductions shall also be made from the respective monthly bill @ 5% of the verified payable amount for each such weekly default.	Request you to change this deduction to the amount of 1%, as considered for earlier projects.	Please refer to response to query no. 50.																								
73	Section IX - PCC, GCC 49.1, Page 238	GC 49.1 to be read as:	We consider that the given Advance payment is an 'interest free' advance.	Please refer to response to query no. 51.																								

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
		The amount of the Advance Payment is ten (10) percent of the Contract Price.	Please confirm.	
74	Section IX - PCC, GCC 50.1, Page 239	<p>“GCC 50.1 is replaced with the following</p> <p>The Contractor shall, within twenty-eight (28) days of the notification of contract award, provide a Performance Security and an Environmental, Social, Safety and Health (ESHS) Performance Security for the due performance of the Contract.</p> <ul style="list-style-type: none"> <li>The Performance Security will be in the form of a ‘demand guarantee’ in the amount of 5 % of the contract amount in the types and proportions of the currencies in which the Contract Price is payable, or in a freely convertible currency acceptable to the Employer.</li> <li>The ESHS Performance Security will be in the form of a “demand guarantee” in the amount(s) of 1.5% of the Contract Amount and in the same currency(ies) of the Accepted Contract Amount.</li> </ul>	<p>Pursuant to Circular No. F 9/4/2020-PPD, Govt. of India, Ministry of Finance, Dept. of Finance, Procurement policy Division, reduced the Performance Security from existing 5-10% to 3% of the Contract.</p> <p>Request you to change the Performance security to 1.5%, so that there is a cumulative 3% which includes the ESHS performance security of 1.5% as well.</p>	Please refer to response to query no. 51.
75	PCC, GCC 58.1, Page 241	The percentage to apply to the value of the work not completed, representing the Employer’s additional cost for completing the Works, is 20%.	The maximum applicable penalty cannot be more than the performance security i.e. 10% of contract value as specified.	Please refer to response to query no. 52.



Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
			Hence request to remove any additional penalty clauses.	
76	GCC 62.0, Page 242	<p>.....</p> <p>(d) strike, sabotage, lockout, embargo, import restriction, port congestion, lack of usual means of public transportation and communication, industrial dispute, shipwreck, shortage or restriction of power supply, epidemics, quarantine and plague</p>	<p>Please insert....</p> <p>strike, sabotage, lockout, embargo, import restriction, port congestion, lack of usual means of public transportation and communication, industrial dispute, shipwreck, shortage or restriction of power supply, epidemics, <b>pandemic</b>, quarantine and plague</p>	No changes, tender conditions prevail.
77	GCC 63, Page 243	<p>Surveys and Levels (new clause added)</p> <p>Before the works of any part thereof begin, the Contractor shall survey and take levels of the site of the works both above and below water level and agree all particulars on which the measurements of the works are to be based. Such particulars shall be recorded and after agreement; the drawings shall be signed by the Employer / Engineer-In-Charge and the Contractor. Similar procedure is to be followed in post dredging survey.</p> <p>.....Benchmark.....</p>	<p>Please note that the said contract is based on LAD, where water column is measured without any establish benchmark.</p> <p>The added clause does not applies in the tendered work and hence request to remove.</p>	<p>This is used for setting up of water levels.</p> <p>No changes, tender conditions prevail.</p>

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
78	GCC 64, Page 243 - 244	<p>Setting out the Works (new clause added)</p> <p>The Employer shall furnish the relevant existing grid points with bench Mark with reference to permanent bench marks. It shall be Contractor's responsibility to the set out the necessary central points on land and to set out alignment. The Contractor shall have in his employees, an efficient survey team for this purpose and the accuracy of such setting out works shall be Contractor's sole responsibility.....</p>	<p>Please note that the said contract is based on LAD, where water column is measured without any establish benchmark.</p> <p>The added clause does not applies in the tendered work and hence request to remove.</p>	<p>No changes, tender conditions prevail.</p>
79	GCC 65, Page 244	<p>Conditions for Dredging Operations (new clause added)</p> <p>.....</p> <p>The decision of EIC to accept the work done with or without the Liquidated damages shall be final and binding.</p> <p>The measurement of depth in the navigation channel shall be carried out by conducting Thalweg surveys every week, jointly by the Contractor and the representative of IWAI under the supervision of Engineer-in-charge or his nominee &amp; its chart should be plotted by the contractor in presence of Engineer representatives. In case of shortcomings observed by the Engineer-in-charge or his nominee, the cross-sectional survey is to be carried out and the cross-sectional interval shall be 10 m apart and</p>	<p>No LD is applicable</p> <p>No Thalweg Survey.</p>	<p>No changes, tender conditions prevail.</p> <p>Thalweg survey to be read as Bathymetric survey. Please refer amendment sheet.</p>

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
		<p>soundings shall be taken continuously and plotted at 4 m interval on the cross-section. The cross-section shall be extended up to 20 m beyond the limits of the channel on either side.</p> <p>.....</p> <p>The Contractor may execute the work round the clock and on all days including Sundays and Public Holidays except National Holidays subject to such restriction as may be imposed by State Govt./local body.</p> <p>.....</p> <p>The rate of dredging quoted per cum will squarely and totally include all the charges to be paid to the contractor by the Authority. The rate quoted shall include all taxes, duties and any other levies. No additional payment on any such account shall be payable by IWAI. No extra charges for the idling the dredger during the monsoon period will be paid to the Contractor.</p> <p>The Contractor will submit to the authority a bill in triplicate for channel dredged corresponding to a length/quantity acceptable to the Engineer-in-Charge which could be decided after the pre-dredging survey depending on length of each shoal to be dredged. The bills shall be accompanied with 3 sets each of pre and</p>	<p>Work time restriction if applicable ?</p> <p>Please note that the said contract is based on LAD not on volumetric basis.</p>	<p>No changes, tender conditions prevail.</p> <p>No changes, tender conditions prevail.</p>

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
		<p>post dredging survey charts and also detailed calculations on dredging quantity.</p> <p>.....</p> <p>The Employer may engage the agency on behalf of the Contractor as per the state/central Govt organization on pollution or coastal management authority to carry out the test of the dredged material at regular interval for the regulating the dumping activities. In case of any adverse report, the Contractor shall comply the instruction of EIC.</p> <p>During execution of the work, if any environmental degradation occurs, consequent on dumping of dredged material, re-conveyance of the material shall be done by the Contractor at his cost, without claiming additional payment from IWAI.</p> <p>.....</p> <p>Any charge incurred on testing of the dredged material, testing / analyzing the quality of water for adopting environmental safe guards, minimizing detrimental impacts, enhancing the beneficial aspects of the project and for effective management of the environmental resources affected by the project shall be met by the</p>	<p>Not required under present tender.</p> <p>.....</p> <p>Please clarify.</p>	<p>No changes, tender conditions prevail.</p> <p>.....</p> <p>No changes, tender conditions prevail.</p>

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
		<p>Contractor. No additional charges on any account shall be payable by IWAI.</p> <p>.....</p> <p>In case the dredged quantity is in excess of 20% of the estimated quantity in pre dredging survey, the report of the same along with all relevant details are to be referred to the Engineer-in-Charge. This Reporting and referring to the Engineer-in-Charge is to be done within 15 days of part completion or completion of the shoal. No dispute, whatsoever arising thereafter will be entertained on this account</p>	<p>Not Volumetric Contract, hence should not be applicable.</p>	<p>Please refer amendment sheet.</p>
80	NA	NA	<p>Request to remove multiple guideline comments from the given tender for better clarity.</p>	<p>No changes, tender conditions prevail.</p>
81	<p>Qualifications, Clause 2.4 : Experience, Page 56 and Compliance Requirements for Each member of JV for 2.4.1, 2.4.2 (a) and (b)</p>	<p><b>Clause 2.4.1: General Dredging Experience in Ports / River, Management of Vessel, Manning of Vessel or Vessel related Marine Works</b></p> <p>Experience under construction contracts for similar works such as those pertaining to General Dredging Experience in Ports / River / Lakes/ Canals / Water Bodies, including Management of Vessel and Manning of Vessel or Vessel related Marine Works</p> <ul style="list-style-type: none"> <li>• River Dredging and management of dredging materials.</li> </ul>	<p>It is requested that atleast one member of JV should be permitted to meet full requirement of having executed works of similar nature in clause no. 2.4.1, 2.4.2 (a) and (b).</p> <p>The proposed amendment will allow more bidders in JV, who have only financial limitations,</p>	<p>The tender conditions of qualifications were based on Standard document of the World Bank and the similar qualification criteria were published in all the earlier dredging related tenders of Jal Marg Vikas Project.</p> <p>No changes, tender conditions prevail.</p>

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
		<p>• Dredged material used in reclamation of port / harbour will also be considered.</p> <p>in the role of contractor, JV member, sub-contractor, or management contractor for at least the last seven [7] years prior to the bid submission deadline.</p> <p><b>Clause 2.4.2 (a): Specific Dredging and Contract Management Experience</b></p> <p>Bidder should have successfully completed as a prime contractor, JV member, management contractor or sub-contractor, minimum</p> <p>Three similar works each costing not less than INR 8.72 Crs Or</p> <p>Two similar works each costing not less than INR 10.90 Crs Or</p> <p>One similar works costing not less than INR 17.44 Crs</p> <p>within the last seven (7) years (FY 2015-16 to FY 2021-22), which is similar to the proposed works. The similarity shall be based on the physical size, complexity, methods/technology or other characteristics as described in Section VII, Employer’s requirements.</p> <p><b>Clause 2.4.2 (b): Specific Experience</b></p>	<p>to qualify in tender without compromising on full technical criteria requirement.</p> <p>In such cases, dredging companies may be allowed to participate in JV with infrastructure companies as already permitted by IWAI in one of their tenders e.g. TENDER No. IWAI/PR2/Dredging/2021 for National Waterways in NER.</p>	

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
		<p>For the above or other contracts executed during the period stipulated in 2.4.2(a) above, at least in one year a minimum construction experience in any of the following key activities:</p> <p>a. Dredging Experience in Ports / River / Canal / Water bodies Or</p> <p>b. Manning of Vessel / Vessel related Marine works Or</p> <p>c. Management of Vessel in River / Sea</p>		
82	Clause 2.4.2 (c), Page 59	<p><b>Clause 2.4.2 (c): Specific Experience in managing ES aspects</b></p> <p>For the contracts in 2.4.2 (a) above and/or any other contracts [substantially completed and under implementation] as prime contractor, joint venture member, or Subcontractor between 1st January 2016 and Application submission deadline, experience in managing ES risks and impacts in the following aspects: [Based on the ES assessment, specify, as appropriate, specific experience requirements to manage ES aspects.]</p>	<p>This Clause may please be deleted as it restricts qualification of most of the dredging companies which reduces the competitiveness of the tendering process.</p>	<p>No changes, tender conditions prevail.</p>
83	Clause 2.7 (1), Page 64	<p><b>Clause 2.7 : Equipment</b></p> <p>The Bidder must demonstrate that it will have access to the key Contractor’s equipment listed hereafter:</p>	<p>River Worthiness Certificate should be allowed to submit after the award of contract.</p>	<p>The clause mentions “<i>The Bidders to ensure that fitness certificate of the equipment like Dredgers &amp; Survey Vessels should be duly certified by an authorized certifying</i></p>

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response																							
		<table border="1" data-bbox="524 352 1218 1254"> <thead> <tr> <th data-bbox="524 352 584 443">No.</th> <th data-bbox="584 352 837 443">Equipment Type and Characteristics</th> <th data-bbox="837 352 976 443">Capacity</th> <th data-bbox="976 352 1086 443">Minimum Number required</th> <th data-bbox="1086 352 1218 443"></th> </tr> </thead> <tbody> <tr> <td data-bbox="524 443 584 635">1</td> <td data-bbox="584 443 837 635">Cutter Suction Dredger with suitable discharge pipes.  River worthiness certificate to be provided at the time of bid submission, from certifying authority.</td> <td data-bbox="837 443 976 635">Minimum 250 cum / hr. of solids</td> <td data-bbox="976 443 1086 635">02</td> <td data-bbox="1086 443 1218 635" rowspan="2">The details of these equipment shall be submitted at the time of bidding along with their technical details, for the purpose of evaluation of bids.</td> </tr> <tr> <td data-bbox="524 635 584 868">2</td> <td data-bbox="584 635 837 868">Survey Vessel with Multi beam eco-sounder, Altimeter for facilitating the measurement of Depth &amp; Width of the Channel.  River worthiness certificate to be provided at the time of bid submission, from certifying authority.</td> <td data-bbox="837 635 976 868">Having suitable capacity</td> <td data-bbox="976 635 1086 868"><u>01</u></td> </tr> <tr> <td data-bbox="524 868 584 1102">3</td> <td data-bbox="584 868 837 1102">Tug Boats  River worthiness certificate to be provided at the time of bid submission, from certifying authority.</td> <td data-bbox="837 868 976 1102">Having suitable capacity for pulling the Dredgers and allied equipment / floating boats / pipelines etc.</td> <td data-bbox="976 868 1086 1102"><u>01</u></td> <td data-bbox="1086 868 1218 1102" rowspan="2">Desirable at the time of bidding.</td> </tr> <tr> <td data-bbox="524 1102 584 1254">4</td> <td data-bbox="584 1102 837 1254">Accommodation Boats  River worthiness certificate to be provided at the time of bid submission, from certifying authority.</td> <td data-bbox="837 1102 976 1254">To accommodate operational staff.</td> <td data-bbox="976 1102 1086 1254"><u>01</u></td> </tr> </tbody> </table> <p data-bbox="504 1321 719 1350">Bidders to Note:</p>	No.	Equipment Type and Characteristics	Capacity	Minimum Number required		1	Cutter Suction Dredger with suitable discharge pipes.  River worthiness certificate to be provided at the time of bid submission, from certifying authority.	Minimum 250 cum / hr. of solids	02	The details of these equipment shall be submitted at the time of bidding along with their technical details, for the purpose of evaluation of bids.	2	Survey Vessel with Multi beam eco-sounder, Altimeter for facilitating the measurement of Depth & Width of the Channel.  River worthiness certificate to be provided at the time of bid submission, from certifying authority.	Having suitable capacity	<u>01</u>	3	Tug Boats  River worthiness certificate to be provided at the time of bid submission, from certifying authority.	Having suitable capacity for pulling the Dredgers and allied equipment / floating boats / pipelines etc.	<u>01</u>	Desirable at the time of bidding.	4	Accommodation Boats  River worthiness certificate to be provided at the time of bid submission, from certifying authority.	To accommodate operational staff.	<u>01</u>	<p data-bbox="1256 1086 1673 1273">Accommodation Boats: River Worthiness certificate to be provided at the time bid submission, from certifying authority.</p>	<p data-bbox="1691 347 2161 603"><i>agency at the time of Bidding.</i>” Since, evaluation of equipment is a necessary step to establish bidder’s qualification – River Worthiness certificate is required. No changes, tender conditions prevail.</p> <p data-bbox="1691 863 2161 1305">The clause mentions “<i>Successful bidder shall produce the fitness certificate of the equipment like Tug Boats, Accommodation Boat duly certified by an authorized certifying agency at the time of deployment at dredging site.</i>” It is not mandatory to submit River Worthiness Certificate for ‘Accommodation Boat’ at the time of bidding, it is desirable. No changes, tender conditions prevail.</p>
No.	Equipment Type and Characteristics	Capacity	Minimum Number required																								
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Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
		<p>.....</p> <p>i. The Bidders to ensure that fitness certificate of the equipment like Dredgers &amp; Survey Vessels should be duly certified by an authorized certifying agency at the time of Bidding</p> <p>ii. Successful bidder shall produce the fitness certificate of the equipment like Tug Boats, Accommodation Boat duly certified by an authorized certifying agency at the time of deployment at dredging site.</p> <p>.....</p>	Accommodation boats should be optional.	No changes, tender conditions prevail.
84	GCC 47.1, Page 237	<p><b>GC 47.1 to be read as:</b></p> <p><b>The Liquidated Damages (LD) is applicable.</b></p> <p>.....</p>	Once the contract is awarded and the quantity to be dredged is finalized, sufficient time should be given to the contractor to achieve the LAD without imposing any LD.	This bid will result in a 'Performance based contract for achieving LAD' and the payment would be based on achieving LAD and not dredged quantity and accordingly, deductions shall apply as per clause GCC 47.1. Further, 'Date of Commencement of Services' is defined in Clause 1.1 (hh). No changes, tender conditions prevail.

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
85	Section I - Instruction to Bidders, Cl 7.2, page 15	The Bidder is advised to visit and examine the Site of Works and its surroundings and obtain for itself. on its own risk and responsibility, all information that may be necessary for preparing the bid and entering a contract for construction of the Works. The costs of visiting the Site shall be at the Bidder's own expense.	If a collective visit is being organized by IWAI. please do apprise the interested bidders of the date and time of the visit.	Please refer to response to query no. 41.
86	Section I – Instruction to Bidders, Clause 18.1, Page 21	Bids remain valid for 90 days...	Not aligned with ITB 18.1 as per BDS.	Bid validity shall be 120 days. Please refer to clause 18.1 of BDS. No changes, tender conditions prevail.
87	ITB 18.1 Page 40	The bid validity period shall be 120 days	Request to keep 60 days as committing the equipment for long bid validity may have adverse impact on cost.	No changes, tender conditions prevail.
88	ITB 33.3 Page 42	(a) Contractor’s proposed subcontracting: Maximum percentage of subcontracting permitted is: 25% of the total contract amount.  (b) Bidders planning to subcontract more than 10% of total volume of work shall specify, in the Letter of Bid, the activity (ies) or parts of the works to be subcontracted along with complete details of the sub-contractors and their qualification and experience. The qualification and experience of the sub-contractors must meet the minimum criteria for the relevant work to be sub-	Please keep this within 10% limit as per earlier tenders and also stated at different clauses in the same tender document.	No changes, tender conditions prevail.

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
		<p>contracted failing which such sub-contractors will not be permitted to participate.</p> <p>(c) Sub-contractors' qualification and experience will not be considered for evaluation of the Bidder. The Bidder on its own (without taking into account the qualification and experience of the sub-contractor) should meet the qualification criteria.</p> <p>[Note: Work should not be split into small parts and sub-contracted].</p>		
89	Section VII - Work Requirements, Cl 2 8- 8, page 133	<p>Cl2: The tentative dredging quantity in Katwa - Farakka (199 Km) stretch is 12.86 Lakh cum for three years.</p> <p>Cl8: The tentative dredging quantity in Farakka - Katwa (199 Km) stretch is approx. 14.438 Lakh cum for three years.</p>	Request to maintain same quantity at all locations.	Please refer to response to query no. 36.
90	Section VII, Clause 19, Multi Beam Echo Sounder, Page 142	<p>Multi Beam Echo Sounder</p> <p>The digital echo sounder for hydrographic surveys shall in principle be operated in the 210 kilo Hertz range (narrow beam transducer). It shall not be permitted for any reason to use a lower operational frequency of the echo sounder for the Post-dredging survey than that has been used for the Pre-dredging survey. The digital echo sounder shall have an accuracy of not less than 0.1 m.</p>	Request to specify a range between 200 – 450 kHz as standard multibeam range.	No changes, tender conditions prevail.

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
		At the start of each hydrographic survey, the AHSS is to be calibrated to the specified accuracy. To this effect, the Contractor shall establish a fixed point (or fixed points) with known coordinates such that the survey boat can easily be positioned with the transducer of the echosounder always in the same position relative to the calibration point.		
91	Clause 21, Other conditions, Page 143	(f) The Service Provider may execute the work round the clock and on all days including Sundays and Public Holidays with the permission of the Engineer-in-charge in writing excepting National Holidays and subject to such restrictions as may be imposed by State Govt./local body.	Please confirm as no time restriction for working in this stretch.	Dredging operations are to be carried out as per Section VII, Clause 21 except to minimize noise impacts on the residents of nearby settlements. Dredgers to be equipped with Noise reduction / masking equipment to reduce noise generation. No changes, tender conditions prevail.
92	Appendix I to General Conditions, Page 202	'Consent to Establish' and 'Consent to Operate' shall be obtained from State Pollution Control Board under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.	CTE and CTO are not applicable for dredging projects as there is no permanent establishment created or operated. Please remove this clause.	CTE and CTO are applicable. No changes, tender conditions prevail.

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
93	GCC 7.1, Page 222	The ceiling for sub-contractor is 25% [This is in addition to what was stated in bid and incorporated in contract agreement.]. Hiding information about any sub-contracting not authorized by the Employer shall be treated as violation of Appendix A to General Conditions (Fraud and Corruption).	Maximum sub-contract shall be 10% as mentioned in earlier contracts. Please clarify.	Please refer to Clause GCC 7.1 and GCC 8.1. No changes, tender conditions prevail.
94	GCC 9.1, Page 223	..... The Project Manager shall approve any proposed replacement of Key Personnel and equipment only if their relevant qualifications or characteristics are substantially equal to or better than those proposed in the Bid.....	Please replace. .....The Project Manager shall approve any proposed replacement of Key Personnel and equipment only if their relevant qualifications or characteristics are substantially equal or better to or better than those as specified for qualification in the Bid.....	No changes, tender conditions prevail.
95	GCC 9.10, Page 223 & 224	The following is inserted as GCC 9.10: “The Contractor shall provide the Contractor’s Personnel information and documentation that are clear and understandable regarding their terms and conditions of employment. The information and documentation shall set out their rights under relevant labour Laws applicable to the Contractor’s Personnel (which will include any applicable collective agreements), including their rights	Sharing internal employment documents is breach of contract between employee and employer.  Rather Contractor shall produce all compliances as required for Employment (such as PPF contribution etc.) to support the same.	No changes, tender conditions prevail.

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
		related to hours of work, wages, overtime, compensation and benefits, as well as those arising from any requirements in the Specification; and shall also include the Code of Conduct for Contractor's Personnel. The Contractor's Personnel shall be informed when any material changes to their terms or conditions of employment occur."	Please amend accordingly.	
96	GCC 13.1 (add new 13.6), Page 224	<p>1. Insurance of Works</p> <p>Contractor is required to take Contractor's All Risk Policy or erection all risk policy (as the case may be).....</p>	<p>Please remove the complete clause as GCC 13.1 suffice the requirement.</p> <p>This was never part of earlier bids.</p> <p><i>Since the contract is for maintaining the LAD on weekly basis by using, this clause will not be applicable and was not the part of earlier contracts.</i></p> <p>Scope of Work as defined in Clause 2, Section VII (page 132) clarifies that no constructional activities are involved.</p>	Please refer to response to query no. 43.

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response												
97	GCC 16.1 (add new 16.2), Page 228	<p>ES Management Strategies and Implementation Plans</p> <p>The following is inserted as a new sub-clause 16.2:</p> <p>“16.2 The Contractor shall not carry out mobilization to Site (e.g. limited clearance for haul roads, site accesses and work site establishment, geotechnical investigations or investigations to select ancillary features such as quarries and borrow pits) unless the Project manager gives consent, a consent that shall not be unreasonably delayed, that appropriate measures are in place to address environmental and social risks and impacts, which at a minimum shall include applying the Management Strategies and Implementation Plans (MSIPs) and Code of Conduct for Contractor’s Personnel submitted as part of the Bid and agreed as part of the Contract.....</p>	<p>This is again applicable for construction related projects.</p> <p>Please remove.</p> <p>Scope of Work as defined in Clause 2, Section VII (page 132) clarifies that no constructional activities are involved.</p>	<p>No changes, tender conditions prevail.</p>												
98	Section IX - PCC > GCC 20.1, Page 229	<p>The Site Possession Date(s) shall be: [insert location and date(s)]</p> <table border="0" data-bbox="506 1050 1238 1203"> <tr> <td>The Site Possession Dates shall be:</td> <td></td> <td></td> </tr> <tr> <td>Section 1</td> <td>_____</td> <td></td> </tr> <tr> <td>Section 2</td> <td>_____</td> <td></td> </tr> <tr> <td>Section 3</td> <td>_____</td> <td></td> </tr> </table>	The Site Possession Dates shall be:			Section 1	_____		Section 2	_____		Section 3	_____		<p>This clause is irrelevant to this Contract.</p> <p>Please remove.</p>	<p>Please refer to response to query no. 44.</p>
The Site Possession Dates shall be:																
Section 1	_____															
Section 2	_____															
Section 3	_____															
99	GCC 24.4, Page 229	<p>The procedure for adhoc arbitration will be as follows.</p> <p>In case.....</p>	<p>At many places the guideline for inserting the clause / clarification has not been deleted or amended. Request to</p>	<p>A clean version of the clause is provided.</p> <p>Please refer amendment sheet.</p>												

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
			share the clean version to analyze the clause in totality.	
100	Section IX - PCC, (Add GCC 26.3), Page 232	The period between Program updates is _____ [insert number] days. The amount to be withheld for late submission of an updated program is _____ [insert amount say Rs. 500,000].	The amount is unwarranted and will result in unwanted disputes. Please remove.	Please refer to response to query no. 45.
101	Section IX - PCC, GCC 40.3, Page 234	The scale of survey should be 1:5000 for all four weekly surveys in the month. Contractor will prepare the survey charts and submit to Employer for approval along with soft copy. Echo roll, Measurement Book etc. related to the measurement. Employer will issue the approved charts to the Contractor.	Request you remove the requirement of the Echo roll & Measurement Book as they will not work with a Multibeam echosounder.	Please refer to response to query no. 46.
102	GCC 41.1, Page 235	Interest rate for Delayed payment is 7.75% per annum (insert the number corresponding to the State Bank of India prime lending rate).	Request to reinstate as per earlier tender i.e. 8%.	Please refer to response to query no. 47.
103	GCC 47.1, Page 237	GC 47.1 to be read as The Liquidated Damages (LD) is applicable.	Request to remove this word Liquidated Damages (LD) as it is misleading. Reinstate as per last tender.	Please refer to response to query no. 48.



Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response																								
104	Section IX - PCC, GCC 47.1, Page 237	<p><b>Table</b></p> <table border="1" data-bbox="506 411 1238 780"> <thead> <tr> <th data-bbox="506 411 562 528">Sl. no</th> <th data-bbox="562 411 943 528">Deductions for the Assured Depth Period of services from the Date of Commencement of Service LAD → 3.0 M &amp; CBW → 45 M</th> <th data-bbox="943 411 1238 528">Deduction to be applied as percentage of monthly bill for each non-compliance found in a joint weekly survey during the month</th> </tr> </thead> <tbody> <tr> <td data-bbox="506 528 562 584">1</td> <td data-bbox="562 528 943 584">On achieving the assured depth of 3.0 m &amp; width of 45 m</td> <td data-bbox="943 528 1238 584">Nil</td> </tr> <tr> <td data-bbox="506 584 562 639">2</td> <td data-bbox="562 584 943 639">On achieving the assured depth of 2.9 m &amp; width of 45 m</td> <td data-bbox="943 584 1238 639">20% for each weekly default</td> </tr> <tr> <td data-bbox="506 639 562 695">3</td> <td data-bbox="562 639 943 695">On achieving the assured depth of 2.8m &amp; width of 45 m</td> <td data-bbox="943 639 1238 695">30% for each weekly default</td> </tr> <tr> <td data-bbox="506 695 562 751">4</td> <td data-bbox="562 695 943 751">On achieving the assured depth of 2.7 m &amp; width of 45 m</td> <td data-bbox="943 695 1238 751">50% for each weekly default</td> </tr> <tr> <td data-bbox="506 751 562 780">5</td> <td data-bbox="562 751 943 780">For a depth less than 2.7 m &amp; width of 45 m</td> <td data-bbox="943 751 1238 780">100% for each weekly default</td> </tr> </tbody> </table>	Sl. no	Deductions for the Assured Depth Period of services from the Date of Commencement of Service LAD → 3.0 M & CBW → 45 M	Deduction to be applied as percentage of monthly bill for each non-compliance found in a joint weekly survey during the month	1	On achieving the assured depth of 3.0 m & width of 45 m	Nil	2	On achieving the assured depth of 2.9 m & width of 45 m	20% for each weekly default	3	On achieving the assured depth of 2.8m & width of 45 m	30% for each weekly default	4	On achieving the assured depth of 2.7 m & width of 45 m	50% for each weekly default	5	For a depth less than 2.7 m & width of 45 m	100% for each weekly default	<p>Please replace as follows:</p> <table border="1" data-bbox="1261 411 1563 788"> <tbody> <tr> <td data-bbox="1261 411 1563 528">Deduction to be applied as percentage of monthly bill for each non-compliance found in a joint weekly survey during the month</td> </tr> <tr> <td data-bbox="1261 528 1563 584">Nil</td> </tr> <tr> <td data-bbox="1261 584 1563 639">5% for each weekly default</td> </tr> <tr> <td data-bbox="1261 639 1563 695">7.5% for each weekly default</td> </tr> <tr> <td data-bbox="1261 695 1563 751">12.5% for each weekly default</td> </tr> <tr> <td data-bbox="1261 751 1563 788">25% for each weekly default</td> </tr> </tbody> </table>	Deduction to be applied as percentage of monthly bill for each non-compliance found in a joint weekly survey during the month	Nil	5% for each weekly default	7.5% for each weekly default	12.5% for each weekly default	25% for each weekly default	<p>Please refer to response to query no. 49.</p>
Sl. no	Deductions for the Assured Depth Period of services from the Date of Commencement of Service LAD → 3.0 M & CBW → 45 M	Deduction to be applied as percentage of monthly bill for each non-compliance found in a joint weekly survey during the month																										
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Nil																												
5% for each weekly default																												
7.5% for each weekly default																												
12.5% for each weekly default																												
25% for each weekly default																												
105	Section IX - PCC, GCC 47.1, Page 237	<p>If a weekly joint survey establishes that the Service Provider failed to maintain the navigational marks according to stipulations in Section VII, Part A Description of Services to the Contract, deductions shall also be made from the respective monthly bill @ 5% of the verified payable amount for each such weekly default.</p>	<p>Request you to change this deduction to the amount of 1%, as considered for earlier projects.</p>	<p>Please refer to response to query no. 50.</p>																								
106	Section IX - PCC, GCC 49.1, Page 238	<p>GC 49.1 to be read as: The amount of the Advance Payment is ten (10) percent of the Contract Price.</p>	<p>We consider that the given Advance payment is an ‘interest free’ advance.  Please confirm.</p>	<p>Please refer to response to query no. 51.</p>																								
107	Section IX - PCC, GCC 50.1, Page 239	<p>“GCC 50.1 is replaced with the following</p>	<p>Pursuant to Circular No. F 9/4/2020-PPD, Govt. of India, Ministry of Finance, Dept. of</p>	<p>Please refer to response to query no. 51.</p>																								

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
		<p>The Contractor shall, within twenty-eight (28) days of the notification of contract award, provide a Performance Security and an Environmental, Social, Safety and Health (ESHS) Performance Security for the due performance of the Contract.</p> <ul style="list-style-type: none"> <li>• The Performance Security will be in the form of a ‘demand guarantee’ in the amount of 5 % of the contract amount in the types and proportions of the currencies in which the Contract Price is payable, or in a freely convertible currency acceptable to the Employer.</li> <li>• The ESHS Performance Security will be in the form of a “demand guarantee” in the amount(s) of 1.5% of the Contract Amount and in the same currency(ies) of the Accepted Contract Amount.</li> </ul>	<p>Finance, Procurement policy Division, reduced the Performance Security from existing 5-10% to 3% of the Contract.</p> <p>Request you to change the Performance security to 1.5%, so that there is a cumulative 3% which includes the ESHS performance security of 1.5% as well.</p>	
108	PCC, GCC 58.1, Page 241	<p>The percentage to apply to the value of the work not completed, representing the Employer’s additional cost for completing the Works, is 20%.</p>	<p>The maximum applicable penalty cannot be more than the performance security i.e. 10% of contract value as specified.</p> <p>Hence request to remove any additional penalty clauses.</p>	<p>Please refer to response to query no. 52.</p>
109	GCC 62.0, Page 242	<p>.....</p> <p>(d) strike, sabotage, lockout, embargo, import restriction, port congestion, lack of usual means of public</p>	<p>Please insert....</p> <p>strike, sabotage, lockout, embargo, import restriction,</p>	<p>No changes, tender conditions prevail.</p>

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
		transportation and communication, industrial dispute, shipwreck, shortage or restriction of power supply, epidemics, quarantine and plague	port congestion, lack of usual means of public transportation and communication, industrial dispute, shipwreck, shortage or restriction of power supply, epidemics, <b>pandemic</b> , quarantine and plague	
110	GCC 63, Page 243	<p>Surveys and Levels (new clause added)</p> <p>Before the works of any part thereof begin, the Contractor shall survey and take levels of the site of the works both above and below water level and agree all particulars on which the measurements of the works are to be based. Such particulars shall be recorded and after agreement; the drawings shall be signed by the Employer / Engineer-In-Charge and the Contractor. Similar procedure is to be followed in post dredging survey.</p> <p>.....Benchmark.....</p>	<p>Please note that the said contract is based on LAD, where water column is measured without any establish benchmark.</p> <p>The added clause does not applies in the tendered work and hence request to remove.</p>	<p>This is used for setting up of water levels.</p> <p>No changes, tender conditions prevail.</p>
111	GCC 64, Page 243 - 244	<p>Setting out the Works (new clause added)</p> <p>The Employer shall furnish the relevant existing grid points with bench Mark with reference to permanent bench marks. It shall be Contractor's responsibility to the set out the necessary central points on land and to set out alignment. The Contractor shall have in his employees,</p>	<p>Please note that the said contract is based on LAD, where water column is measured without any establish benchmark.</p>	<p>No changes, tender conditions prevail.</p>

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
		an efficient survey team for this purpose and the accuracy of such setting out works shall be Contractor's sole responsibility.....	The added clause does not applies in the tendered work and hence request to remove.	
112	GCC 65, Page 244	<p>Conditions for Dredging Operations (new clause added)</p> <p>.....</p> <p>The decision of EIC to accept the work done with or without the Liquidated damages shall be final and binding.</p> <p>The measurement of depth in the navigation channel shall be carried out by conducting Thalweg surveys every week, jointly by the Contractor and the representative of IWAI under the supervision of Engineer-in-charge or his nominee &amp; its chart should be plotted by the contractor in presence of Engineer representatives. In case of shortcomings observed by the Engineer-in-charge or his nominee, the cross-sectional survey is to be carried out and the cross-sectional interval shall be 10 m apart and soundings shall be taken continuously and plotted at 4 m interval on the cross-section. The cross-section shall be extended up to 20 m beyond the limits of the channel on either side.</p> <p>.....</p>	<p>No LD is applicable</p> <p>No Thalweg Survey.</p>	<p>No changes, tender conditions prevail.</p> <p>Thalweg survey to be read as Bathymetric survey. Please refer amendment sheet.</p>

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
		<p>The Contractor may execute the work round the clock and on all days including Sundays and Public Holidays except National Holidays subject to such restriction as may be imposed by State Govt./local body.</p> <p>.....</p> <p>The rate of dredging quoted per cum will squarely and totally include all the charges to be paid to the contractor by the Authority. The rate quoted shall include all taxes, duties and any other levies. No additional payment on any such account shall be payable by IWAI. No extra charges for the idling the dredger during the monsoon period will be paid to the Contractor.</p> <p>The Contractor will submit to the authority a bill in triplicate for channel dredged corresponding to a length/quantity acceptable to the Engineer-in-Charge which could be decided after the pre-dredging survey depending on length of each shoal to be dredged. The bills shall be accompanied with 3 sets each of pre and post dredging survey charts and also detailed calculations on dredging quantity.</p> <p>.....</p> <p>The Employer may engage the agency on behalf of the Contractor as per the state/central Govt organization on</p>	<p>Work time restriction if applicable ?</p> <p>Please note that the said contract is based on LAD not on volumetric basis.</p>	<p>No changes, tender conditions prevail.</p> <p>No changes, tender conditions prevail.</p>

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
		<p>pollution or coastal management authority to carry out the test of the dredged material at regular interval for the regulating the dumping activities. In case of any adverse report, the Contractor shall comply the instruction of EIC.</p> <p>During execution of the work, if any environmental degradation occurs, consequent on dumping of dredged material, re-conveyance of the material shall be done by the Contractor at his cost, without claiming additional payment from IWAI.</p> <p>.....</p> <p>Any charge incurred on testing of the dredged material, testing / analyzing the quality of water for adopting environmental safe guards, minimizing detrimental impacts, enhancing the beneficial aspects of the project and for effective management of the environmental resources affected by the project shall be met by the Contractor. No additional charges on any account shall be payable by IWAI.</p> <p>.....</p> <p>In case the dredged quantity is in excess of 20% of the estimated quantity in pre dredging survey, the report of the same along with all relevant details are to be referred</p>	<p>Not required under present tender.</p> <p>Please clarify.</p>	<p>No changes, tender conditions prevail.</p> <p>No changes, tender conditions prevail.</p> <p>Please refer amendment sheet.</p>

Sr. No.	Section No. Clause, Sub Clause No. and Page No.	Tender Clause	Query	IWAI Response
		to the Engineer-in-Charge. This Reporting and referring to the Engineer-in-Charge is to be done within 15 days of part completion or completion of the shoal. No dispute, whatsoever arising thereafter will be entertained on this account	Not Volumetric Contract, hence should not be applicable.	
113	NA	NA	Request to remove multiple guideline comments from the given tender for better clarity.	No changes, tender conditions prevail.
114	NA	NA	Request you to extended the bid submission date at least for TWO Weeks from the date of uploading pre-bid clarifications.	The submission date is extended. Please refer the amendment sheet.

**Amendment - 3**

**Name of the Work:** Fairway Maintenance on performance-based dredging in Farakka - Katwa (199 km) Stretch of National Waterway -1 (River Ganga)

**Contract Package No:** IN-IWAI-332926-CW-RFB

<b>S No.</b>	<b>Section No. Clause, Sub Clause No.</b>	<b>Existing Text</b>	<b>To be Read as</b>
1.	IFB, Clause 5	Bidding documents are available online on CPP Portal <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a> from 05.01.2023 to 3.02.2023 for a non-refundable fee as indicated in the table below....	Bidding documents are available online on CPP Portal <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a> from 05.01.2023 to 07.03.2023 for a non-refundable fee as indicated in the table below....
2.	IFB, Clause 7	All Bids must be accompanied by a bid security (or “Bid-Securing Declaration,” as appropriate) of the amount specified for the work in the table below, drawn in favour of IWAI Fund Bid security will have to be in any one of the forms as specified....	All Bids must be accompanied by a bid security of the amount specified for the work in the table below, drawn in favour of IWAI Fund Bid security will have to be in any one of the forms as specified....
3.	IFB, Clause 8	Bids comprise two Parts, namely the Technical Part and the Financial Part, and both parts must be submitted simultaneously online on <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a> on or before 15:00 hours on 03.02.2023 and the ‘Technical Part’ of the bids will be publicly opened online on the same day at 15:30 hours....	Bids comprise two Parts, namely the Technical Part and the Financial Part, and both parts must be submitted simultaneously online on <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a> on or before 15:00 hours on 07.03.2023 and the ‘Technical Part’ of the bids will be publicly opened online on the same day at 15:30 hours....
4.	IFB, Clause 9	The bidders are required to submit (a) original payment documents towards the cost of bidding document; and registration on e-procurement website (if applicable); (b) original bid security or Bid-Securing Declaration in approved form; and (c) original affidavit regarding correctness of information furnished with bidding document....	The bidders are required to submit (a) original payment documents towards the cost of bidding document; and registration on e-procurement website (if applicable); (b) original bid security in approved form; and (c) original affidavit regarding correctness of information furnished with bidding document....
5.	Section II, ITB, Clause 4.6	Deleted (unless the Employer has previously used bid securing declaration as bid security).	Deleted



6,	Section II, ITB, Clause 7.4	<p>.....</p> <p>A site visit conducted by the Employer shall be organized on request.</p>	<p>.....</p> <p>A site visit conducted by the Employer shall be organized on request. For Site visit bidders are advised to contact: Director, Inland Waterways Authority of India, P-78, Garden Reach Road, Kolkata – 700043, West Bengal Email: dirkol@iwai.gov.in, Phone nos. 033 – 24390393 &amp; 24395577</p>
7.	Section II, ITB, Clause 18.3 (a)	The factor is 5.52 % per annum. – However, the clause is not applicable as this is an adjustable price contract.	Deleted
8.	Section II, ITB, Clause 19.3 (d)	<p>Other type of acceptable securities are:</p> <p>Online cash transfer (if applicable, provide full details)</p> <p>Bank details: Advising Bank: Union Bank of India Bank Account no.: 513202050000007 IFSC Code: UBIN0551325 Name of beneficiary: IWAI FUND Branch name: Sector 15, Naya Bans, NOIDA Address: Sector 15, Naya Bans, NOIDA - 201301</p>	<p>Other type of acceptable securities are:</p> <p>Online cash transfer (if applicable, provide full details) / e- Bank Guarantee</p> <p>Bank details: Advising Bank: Canara Bank Bank Account no.: 87781010014534 IFSC Code: CNRB0018778 Name of beneficiary: IWAI FUND Jal Marg Vikas Branch name: Sector 18, NOIDA (Morna) Address: Sector 18, NOIDA (Morna) – 201301</p> <p>The Bank Guarantee issued in paper for shall become operative only when the Bank Guarantee advice transmitted through SFMS is advised to the Beneficiary by the Advising Bank.</p> <p>The details of Advising Bank are as under: Name of the Bank: Canara Bank Branch Name &amp; Address: Morna Noida, B16/17, Ground Floor, Sector-18, Noida (201301), UP</p>

			IFS Code: CNRB0018778														
9.	Section II, ITB, Clause 19.9	Deleted (unless the Employer proposes use of bid securing declaration as bid security).					Deleted										
10.	ITB, Clause 39.2	Not existing					New Clause added For determining aggregate of the Net Present Value (NPV) of three years' prices for Services quoted in the Priced Activity Schedule, by discounting these prices to the Date of Commencement of Services, assuming only for purpose of the evaluation that the quoted prices are payable at the end of the respective years. For the purpose of determining NPV, discount factor of 10 % per annum shall be applied										
11.	Section III, Clause 2.2.1, History of Non Performing Contracts	Non-performance of a contract did not occur as a result of contractor default since 1st January 2016.					Non-performance of a contract did not occur as a result of contractor default since 1st January <b>2012</b> .										
12.	Section III, Clause 2.3.1, Financial Capabilities	Qualification Criteria		Compliance Requirements			Documentation		Qualification Criteria		Compliance Requirements			Documentation			
		Requirement		Single Entity	Joint Venture where permitted			Submission Requirements		Requirement		Single Entity	Joint Venture where permitted			Submission Requirements	
					All Parties Combined	Each Member	One Member						All Parties Combined	Each Member	One Member		
(a) The Bidder shall demonstrate that it has access to, or has available, liquid assets, unencumbered real assets, lines of credit, and other financial means (independent of any contractual advance payment) sufficient to meet the 6 months construction cash flow requirements estimated as <b>Rs. 10.90 Crore</b> for the subject contract(s) net of the Bidders other commitments (b) The Bidders shall also demonstrate, to the satisfaction of the Employer, that it has adequate sources of finance to meet the cash flow requirements on works		(a) Must meet requirement	(a) Must meet the requirement	(a) Must meet at least 25% of the requirement as a minimum	(a) Must meet at least 50% of the requirement as a minimum			(a) Must meet requirement	(a) Must meet the requirement	(a) Must meet at least 25% of the requirement as a minimum	(a) Must meet at least 50% of the requirement as a minimum						
		(b) Must meet requirement	(b) Must meet requirement	N/A	N/A	Form FIN - 3.1 with attachments		(b) Must meet requirement	(b) Must meet requirement	N/A	<b>(b) Must meet requirement</b>	Form FIN - 3.1 with attachments					

		currently in progress and for future contract commitments  (c) The audited balance sheets or, if not required by the laws of the Bidder's country, other financial statements acceptable to the Employer, for the last five years shall be submitted and must demonstrate the current soundness of the Bidder's financial position and indicate its prospective long-term profitability.	(c) Must meet requirement	N/A	(c) Must meet requirement	N/A			currently in progress and for future contract commitments  (c) The audited balance sheets or, if not required by the laws of the Bidder's country, other financial statements acceptable to the Employer, for the last five years shall be submitted and must demonstrate the current soundness of the Bidder's financial position and indicate its prospective long-term profitability.	(c) Must meet requirement	N/A	(c) Must meet requirement	<b>(c) Must meet requirement</b>			
13.	Section III, Clause 2.4.1, General Dredging Experience in Ports / River, Management of Vessel, Manning of Vessel or Vessel related Marine Works	Qualification Criteria		Compliance Requirements			Documentation	Qualification Criteria		Compliance Requirements			Documentation			
		Requirement	Single Entity	Joint Venture where permitted			Submission Requirements	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements			
				All Parties Combined	Each Member	One Member				All Parties Combined	Each Member	One Member				
		Experience under construction contracts for similar works such as those pertaining to General Dredging Experience in Ports / River / Lakes/ Canals / Water Bodies, including Management of Vessel and Manning of Vessel or Vessel related Marine Works • River Dredging and management of dredging materials. • Dredged material used in reclamation of port / harbour will also be considered. in the role of contractor, JV member, sub-contractor, or management contractor for at least the last seven [7] years prior to the bid submission deadline.	Must meet requirement	N/A	Must meet requirement  Of having execute works of similar nature	N/A	Form EXP - 4.1	Experience under construction contracts for similar works such as those pertaining to General Dredging Experience in Ports / River / Lakes/ Canals / Water Bodies, including Management of Vessel and Manning of Vessel or Vessel related Marine Works • River Dredging and management of dredging materials. • Dredged material used in reclamation of port / harbour will also be considered. in the role of contractor, JV member, sub-contractor, or management contractor for at least the last seven [7] years (FY 2015 – 16 to FY 2021 – 22) prior to the bid submission deadline.	Must meet requirement	<b>Must meet requirement</b>	Must meet requirement  Of having execute works of similar nature	N/A	Form EXP - 4.1			
14.	Section III, Clause 2.4.2 (a), Specific Dredging	Bidder should have successfully completed as a prime contractor, JV member, management contractor or sub-contractor, minimum Three similar works each costing not less than INR 8.72 Crs Or Two similar works each costing not less than INR 10.90 Crs					Bidder should have successfully completed as a prime contractor, JV member, management contractor or sub-contractor, minimum Three similar works each costing not less than INR 8.72 Crs / <b>1.7152 Lakh cum of dredging quantity</b> Or									

	and Contract Management Experience	Or One similar works costing not less than INR 17.44 Crs within the last seven (7) years (FY 2015-16 to FY 2021-22), which is similar to the proposed works. The similarity shall be based on the physical size, complexity, methods/technology or other characteristics as described in Section VII, Employer's requirements.	Two similar works each costing not less than INR 10.90 Crs / <b>2.144 Lakh cum of dredging quantity</b> Or One similar works costing not less than INR 17.44 Crs / <b>3.4304 Lakh cum of dredging quantity</b> within the last seven (7) years (FY 2015-16 to FY 2021-22), which is similar to the proposed works. The similarity shall be based on the physical size, complexity, methods/technology or other characteristics as described in Section VII, Employer's requirements.
15.	Section III, Clause 2.5.2	Relevant OHSAS certificate and Experience in occupational health and safety management over the last 2 years	Relevant OHSAS certificate and Experience in occupational health and safety management over the last 2 years ( <b>FY 2020 – 21 to FY 2021 – 22</b> )
16.	Section III, Clause 2.5.3	Recent Environmental management certificate and experience with environmental management systems over the last 2 years	Recent Environmental management certificate and experience with environmental management systems over the last 2 years ( <b>FY 2020 – 21 to FY 2021 – 22</b> )
17.	Section IV, Technical Proposal	Technical Proposal Technical Proposal Forms  - Site Organization  - Method Statement / Dredging Management Plan  - Mobilization Schedule  - ES Management Strategies and Implementation Plans  - Code of Conduct for Contractor's Personnel (ES)  - Personnel  - Equipment	Technical Proposal Technical Proposal Forms  - Site Organization  - Method Statement / Dredging Management Plan  - Mobilization Schedule  - ES Management Strategies and Implementation Plans  - Code of Conduct for Contractor's Personnel (ES)  - Personnel  - Equipment

		<ul style="list-style-type: none"> <li>- Sub-contracting elements or works which in aggregate adds to more than 10% of Bid price (for each the qualifications and experiences on the identified subcontractor in the relevant field should be given)</li> </ul> <p>Note: Work should not be split into small parts and sub-contracted; but sub-contracting specialized elements of works is acceptable.</p> <ul style="list-style-type: none"> <li>- Others</li> <li>- Bidder's Qualification</li> <li>- Form of Bid Security - Bank Guarantee</li> <li>- Form of Bid-Securing Declaration</li> </ul>	<ul style="list-style-type: none"> <li>- Sub-contracting elements or works which in aggregate adds to more than 10% of Bid price (for each the qualifications and experiences on the identified subcontractor in the relevant field should be given)</li> </ul> <p>Note: Work should not be split into small parts and sub-contracted; but sub-contracting specialized elements of works is acceptable.</p> <ul style="list-style-type: none"> <li>- Others</li> <li>- Bidder's Qualification</li> <li>- Form of Bid Security - Bank Guarantee</li> </ul>
18.	Section IV, Appendix to Technical Part	Appendix to Technical Part Form of Bid-Securing Declaration	Deleted
19.	Section IV, Finance Bid: Bill of Quantity	<p>Finance Bid: Bill of Quantity (For On-line Submission Schedule)</p> <p>.....</p> <p>Refer ITB clause 30.6 (e) determining aggregate of the Net Present Value (NPV) of three years' prices for Services quoted in the Priced Activity Schedule, by discounting these prices to the Date of Commencement of Services, assuming only for purpose of the evaluation that the quoted prices are payable at the end of the respective years. For the purpose of determining NPV, discount factor of 10 % per annum shall be applied</p>	<p>Finance Bid: Bill of Quantity (For On-line Submission Schedule)</p> <p>.....</p> <p>Refer ITB clause <b>39.2</b> determining aggregate of the Net Present Value (NPV) of three years' prices for Services quoted in the Priced Activity Schedule, by discounting these prices to the Date of Commencement of Services, assuming only for purpose of the evaluation that the quoted prices are payable at the end of the respective years. For the purpose of determining NPV, discount factor of 10 % per annum shall be applied</p>

20.	Section VII, Annexure C	River Reach Figures	River Reach Figures (provided below as Annex-1)
21.	Section VII, Clause 8	<p>.....</p> <p>The tentative dredging quantity in Farakka - Katwa (199 Km) stretch is approx. 14.438 Lakh cum for three years.</p> <p>.....</p> <p>Stretch of Katwa - Farakka (199 Km) - Tentative Quantity of 14.438 Lakh Cum to be dredged during the lean season of (7) seven months (November to May) except for flood seasons (June to October)</p> <p>.....</p>	<p>.....</p> <p>The tentative dredging quantity in Farakka - Katwa (199 Km) stretch is approx. <b>12.86</b> Lakh cum for three years.</p> <p>.....</p> <p>Stretch of Katwa - Farakka (199 Km) - Tentative Quantity of <b>12.86</b> Lakh Cum to be dredged during the lean season of (7) seven months (November to May) except for flood seasons (June to October)</p> <p>.....</p>
22.	Section IX, GCC 24.4	<p>The procedure for adhoc arbitration will be as follows:</p> <p>(a) In case of Dispute or difference arising between the Employer and a Contractor relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Arbitration and Conciliation Act, 1996. The arbitral tribunal shall consist of 3 Arbitrators one each to be appointed by the Employer and the Contractor. The third Arbitrator shall be chosen by the two Arbitrators so appointed by the Parties and shall act as Presiding Arbitrator. In case of failure of the two Arbitrators appointed by the parties to reach upon a consensus within a period of 30 days from the appointment of the Arbitrator appointed subsequently, the Presiding Arbitrator shall be appointed by the* Indian Council of Arbitration/ President of the Institution of Engineers (India)/The International Centre for Alternative Disputes Resolution (India).</p> <p>(b) If one of the parties fails to appoint its Arbitrator in pursuance of sub-clause (a) above within 30 days after receipt of the notice of the appointment of its Arbitrator by the other party,</p>	<p>The procedure for adhoc arbitration will be as follows:</p> <p>(a) In case of Dispute or difference arising between the Employer and a Contractor relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Arbitration and Conciliation Act, 1996. The arbitral tribunal shall consist of 3 Arbitrators one each to be appointed by the Employer and the Contractor. The third Arbitrator shall be chosen by the two Arbitrators so appointed by the Parties and shall act as Presiding Arbitrator. In case of failure of the two Arbitrators appointed by the parties to reach upon a consensus within a period of 30 days from the appointment of the Arbitrator appointed subsequently, the Presiding Arbitrator shall be appointed by the Indian Council of Arbitration.</p> <p>(b) If one of the parties fails to appoint its Arbitrator in pursuance of sub-clause (a) above within 30 days after receipt of the notice of the appointment of its Arbitrator by the other party, then the Indian Council of Arbitration, shall appoint the Arbitrator. A certified copy of the order of the Indian Council of Arbitration, making such an appointment shall be furnished to each of the parties.</p>

	<p>then the *Indian Council of Arbitration/President of the Institution of Engineers (India)/The International Centre for Alternative Disputes Resolution (India), both in cases of Foreign Contractor as well as Indian Contractor, shall appoint the Arbitrator. A certified copy of the order of the* Indian Council of Arbitration/President of the Institution of Engineers (India)/The International Centre for Alternative Disputes Resolution (India), making such an appointment shall be furnished to each of the parties.</p> <p>(c) Arbitration may be commenced prior to or after completion of the Works, provided that the obligations of the Employer, the Project Manager, the Contractor and the Adjudicator shall not be altered by reason of the arbitration being conducted during the progress of the Works.</p> <p>(d) Arbitration proceedings shall be held at New Delhi, and the language of the arbitration proceedings and that of all documents and communications between the parties shall be English.</p> <p>(e) The decision of the majority of Arbitrators shall be final and binding upon both parties. The cost and expenses of Arbitration proceedings will be paid as determined by the arbitral tribunal. However, the expenses incurred by each party in connection with the preparation, presentation, etc. of its proceedings as also the fees and expenses paid to the Arbitrator appointed by such party or on its behalf shall be borne by each party itself.</p> <p>(f) Where the value of the contract is Rs. 50 million and below, the disputes or differences arising shall be referred to the Sole Arbitrator. The Sole Arbitrator should be appointed by agreement between the parties; failing such agreement, by the appointing authority, namely the * Indian Council of</p>	<p>(c) Arbitration may be commenced prior to or after completion of the Works, provided that the obligations of the Employer, the Project Manager, the Contractor and the Adjudicator shall not be altered by reason of the arbitration being conducted during the progress of the Works.</p> <p>(d) Arbitration proceedings shall be held at New Delhi, and the language of the arbitration proceedings and that of all documents and communications between the parties shall be English.</p> <p>(e) The decision of the majority of Arbitrators shall be final and binding upon both parties. The cost and expenses of Arbitration proceedings will be paid as determined by the arbitral tribunal. However, the expenses incurred by each party in connection with the preparation, presentation, etc. of its proceedings as also the fees and expenses paid to the Arbitrator appointed by such party or on its behalf shall be borne by each party itself.</p> <p>(f) Deleted.</p> <p>(g) The Arbitrator should give final award within 180 days of starting of the proceedings.</p> <p>(h) Performance under the contract shall continue during the arbitration proceedings and payments due to the contractor by the Employer shall not be withheld, unless they are the subject matter of the arbitration proceedings.</p>
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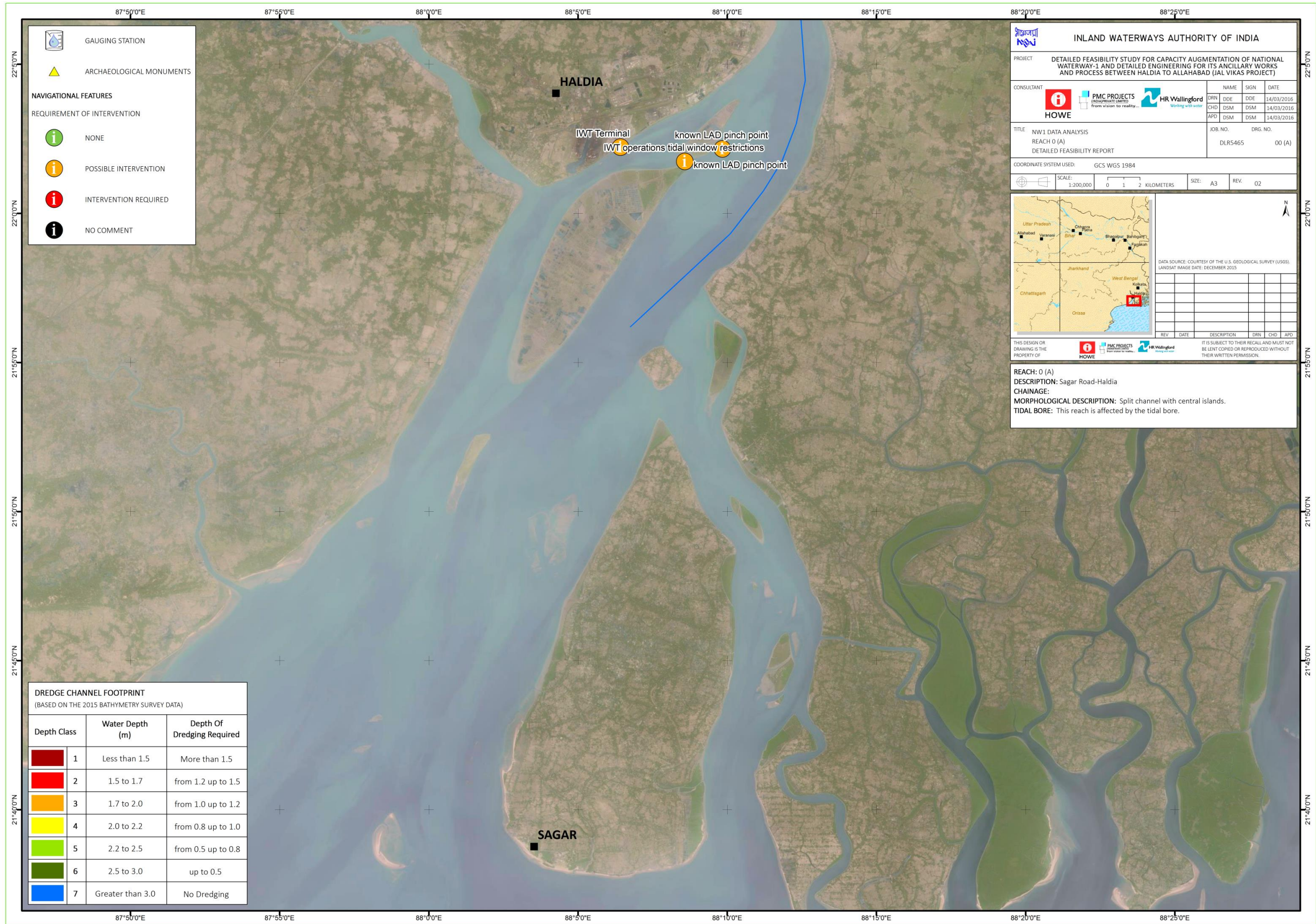
	<p>Arbitration/President of the Institution of Engineers (India)/The International Centre for Alternative Disputes Resolution (India).</p> <p>(g) The Arbitrator should give final award within..... days of starting of the proceedings [indicate the days (Between 120-180) by which arbitrator should give award].</p> <p>(h) Performance under the contract shall continue during the arbitration proceedings and payments due to the contractor by the Employer shall not be withheld, unless they are the subject matter of the arbitration proceedings.</p> <p>* Choose one alternative. Insert Chairman of the Executive Committee of the Indian Roads Congress (for highway project) or any other appropriate institution (for other types of works). Alternatively [Apart from the adhoc arbitration services obtained through mutually agreed Arbitrator(s) as above, Institutional arbitration services are also available in India. Institutional arbitration (and mediation) dispute resolution mechanisms can be gainfully used, preferably for relatively larger contracts. Following clause may be included, if it is decided to use Institutional Services for arbitration for resolution of disputes, and in such a case other clauses related to Arbitration/ Arbitrator would be deleted. In the sample clause below, substitute the reference to ‘Rules of Domestic Commercial Arbitration of the Indian Council of Arbitration’ by the specific institution that is sought to be engaged e.g. The International Centre for Alternative Dispute Resolution (ICADR), The Indian Institute of Arbitration and Mediation (IIAM), Indian Chamber’s Council of Arbitration, Delhi International Arbitration Centre (DAC), Construction Industry Arbitration Council (CIAC), Council for National and</p>	
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		<p>International Commercial Arbitration, London Court of International Arbitration (India Centre) or the like.]</p> <p>"Any dispute or difference whatsoever arising between the parties out of or relating to the construction, meaning, scope, operation or effect of this contract or the validity or the breach thereof shall be settled by arbitration in accordance with the Rules of Domestic Commercial Arbitration of the Indian Council of Arbitration and the award made in pursuance thereof shall be binding on the parties.</p> <p>The arbitral tribunal shall consist of 3 Arbitrators, arbitration proceedings shall be held at New Delhi, India and the language of the arbitration proceedings and that of all documents and communications between the parties shall be English". [ICA rules provide for arbitration tribunal of 3 arbitrators if the value of claim is over Rs. 1 crore unless the parties have agreed otherwise for a sole arbitrator].</p>	
23.	Section IX, GCC 26.3	<p>The period between Program updates is _____ [insert number] days.</p> <p>The amount to be withheld for late submission of an updated Program is _____ [insert amount say Rs. 500,000].</p>	<p>The period between Program updates is <b>90</b> days.</p> <p>The amount to be withheld for late submission of an updated Program is <b>Rs. 500,000</b>.</p>
24.	Section IX, GCC 40.3	<p>.....</p> <p>The scale of surveys should be 1:5000 for all four weekly surveys in the month. Contractor will prepare the survey charts and submit to Employer for approval along with soft copy, Echo roll, Measurement Book etc. related to the measurement. Employer will issue the approved charts to the Contractor.</p> <p>.....</p>	<p>.....</p> <p>The scale of surveys should be 1:5000 for all four weekly surveys in the month. Contractor will prepare the survey charts and submit to Employer for approval along with soft copy, <b>USB / Pen / Flash Drive</b>, Measurement Book, <b>if applicable</b> etc. related to the measurement. Employer will issue the approved charts to the Contractor.</p> <p>.....</p>
25.	Section IX, GCC 41.1.2 (new	Not existing	<p>During the water sharing period (March-May), in the event water level falling below 17.75 m recorded at CWC gauge station at Farakka downstream, then in that particular week default will not be considered and</p>

	Clause added)		payment will be based on the achieved LAD during previous week joint survey. Further, during water sharing period, the LAD at Baghmari syphon shall not be considered as default.
26.	Section IX, GCC 50.1	<p>.....</p> <p>The standard forms of Performance Security, and if applicable ESHS performance security, acceptable to the Employer shall be unconditional Bank Guarantees from Scheduled or Nationalized banks in India of the types as presented in Section X of the Bidding Documents.</p> <p>.....</p>	<p>.....</p> <p>The standard forms of Performance Security, and if applicable ESHS performance security, acceptable to the Employer shall be unconditional Bank Guarantees / e- Bank Guarantee from Scheduled or Nationalized banks in India of the types as presented in Section X of the Bidding Documents.</p> <p>The Bank Guarantee issued in paper for shall become operative only when the Bank Guarantee advice transmitted through SFMS is advised to the Beneficiary by the Advising Bank.</p> <p>The details of Advising Bank are as under: Name of the Bank: Canara Bank Branch Name &amp; Address: Morna Noida, B16/17, Ground Floor, Sector-18, Noida (201301), UP</p> <p>IFS Code: CNRB0018778</p> <p>.....</p>
27.	Section IX, GCC 65	<p><b>Conditions for Dredging Operations (new clause added)</b></p> <p>.....</p> <p>The measurement of depth in the navigation channel shall be carried out by conducting Thalweg surveys every week, jointly by the Contractor and the representative of IWAI under the supervision of Engineer-in-charge or his nominee &amp; its chart should be plotted by the contractor in presence of Engineer representatives. In case of shortcomings observed by the Engineer-in-charge or his nominee, the cross-sectional survey is to be carried out and the cross-sectional interval shall be 10 m</p>	<p><b>Conditions for Dredging Operations (new clause added)</b></p> <p>.....</p> <p>The measurement of depth in the navigation channel shall be carried out by conducting <b>Bathymetric</b> surveys every week, jointly by the Contractor and the representative of IWAI under the supervision of Engineer-in-charge or his nominee &amp; its chart should be plotted by the contractor in presence of Engineer representatives. <b>However, Contractor should also ensure measurement of width in each survey and shall carry out the surveys in order to define the minimum width of 45 m for the year.</b></p>

		<p>apart and soundings shall be taken continuously and plotted at 4 m interval on the cross-section. The cross-section shall be extended up to 20 m beyond the limits of the channel on either side.</p> <p>.....</p>	<p>In case of shortcomings observed by the Engineer-in-charge or his nominee, the cross-sectional survey is to be carried out and the cross-sectional interval shall be 10 m apart and soundings shall be taken continuously and plotted at 4 m interval on the cross-section. The cross-section shall be extended up to 20 m beyond the limits of the channel on either side.</p> <p>.....</p>
28.	Section IX, GCC 65	<p><b>Conditions for Dredging Operations (new clause added)</b></p> <p>.....</p> <p>In case the dredged quantity is in excess of 20% of the estimated quantity in pre dredging survey, the report of the same along with all relevant details are to be referred to the Engineer-in-Charge. This Reporting and referring to the Engineer-in-Charge is to be done within 15 days of part completion or completion of the shoal. No dispute, whatsoever arising thereafter will be entertained on this account</p>	Deleted





**GAUGING STATION**  
 GAUGING STATION

**ARCHAEOLOGICAL MONUMENTS**  
 ARCHAEOLOGICAL MONUMENTS

**NAVIGATIONAL FEATURES**

**REQUIREMENT OF INTERVENTION**

- NONE
- POSSIBLE INTERVENTION
- INTERVENTION REQUIRED
- NO COMMENT

**DREDGE CHANNEL FOOTPRINT**  
 (BASED ON THE 2015 BATHYMETRY SURVEY DATA)

Depth Class	Water Depth (m)	Depth Of Dredging Required
	1 Less than 1.5	More than 1.5
	2 1.5 to 1.7	from 1.2 up to 1.5
	3 1.7 to 2.0	from 1.0 up to 1.2
	4 2.0 to 2.2	from 0.8 up to 1.0
	5 2.2 to 2.5	from 0.5 up to 0.8
	6 2.5 to 3.0	up to 0.5
	7 Greater than 3.0	No Dredging

**INLAND WATERWAYS AUTHORITY OF INDIA**

PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)

CONSULTANT: **HOWE** (with logos for PMC PROJECTS and HR Wallingford)

NAME	SIGN	DATE
DRN	DDE	DDE 10/03/2016
CHD	DSM	DSM 10/03/2016
APD	DSM	DSM 10/03/2016

TITLE: NW1 DATA ANALYSIS  
 REACH 0 (B)  
 DETAILED FEASIBILITY REPORT

JOB. NO. DLR5465  
 DRG. NO. 00 (B)

COORDINATE SYSTEM USED: GCS WGS 1984

SCALE: 1:90,000 (0 to 1 KILOMETERS)

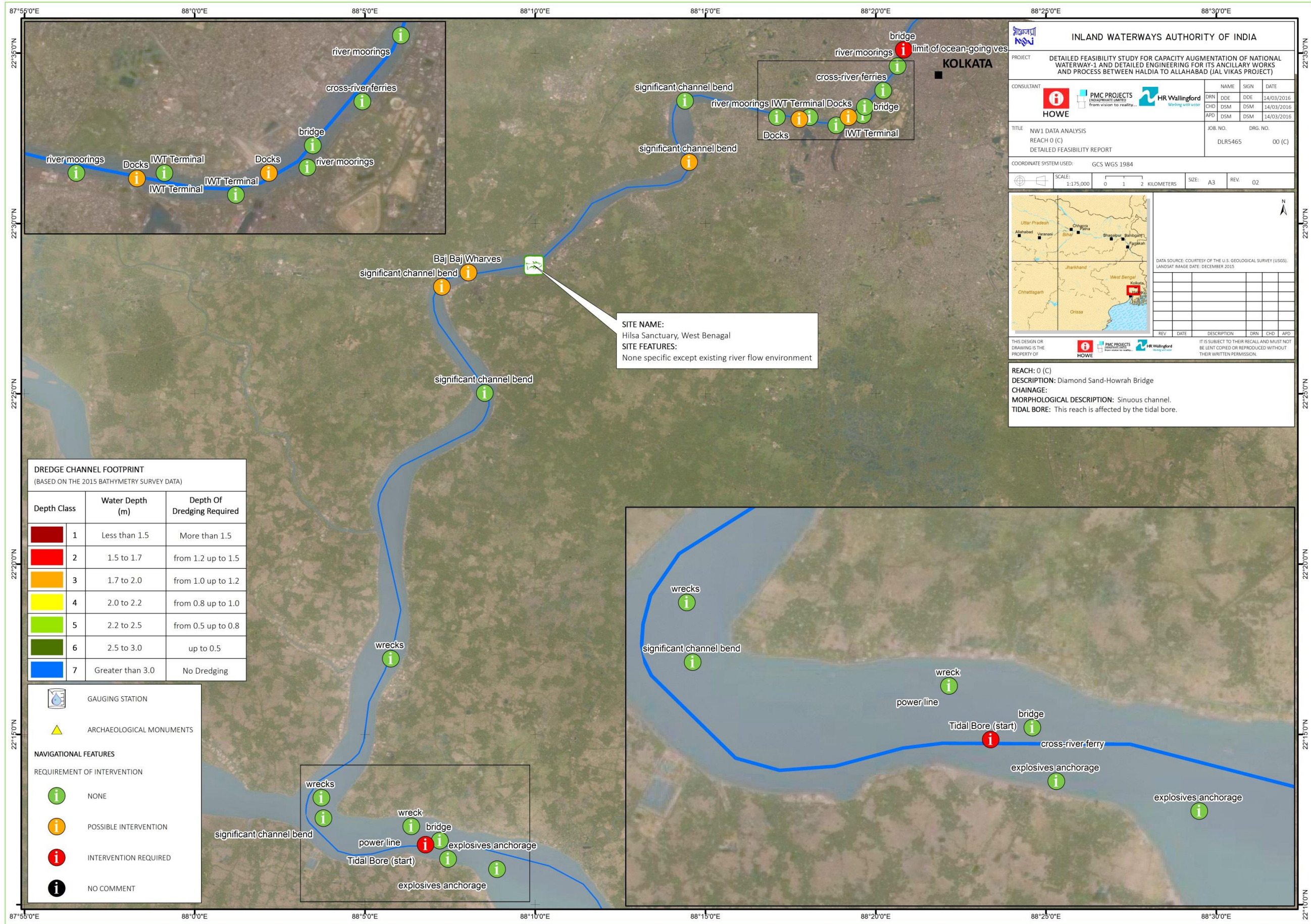
SIZE: A3 REV: 02

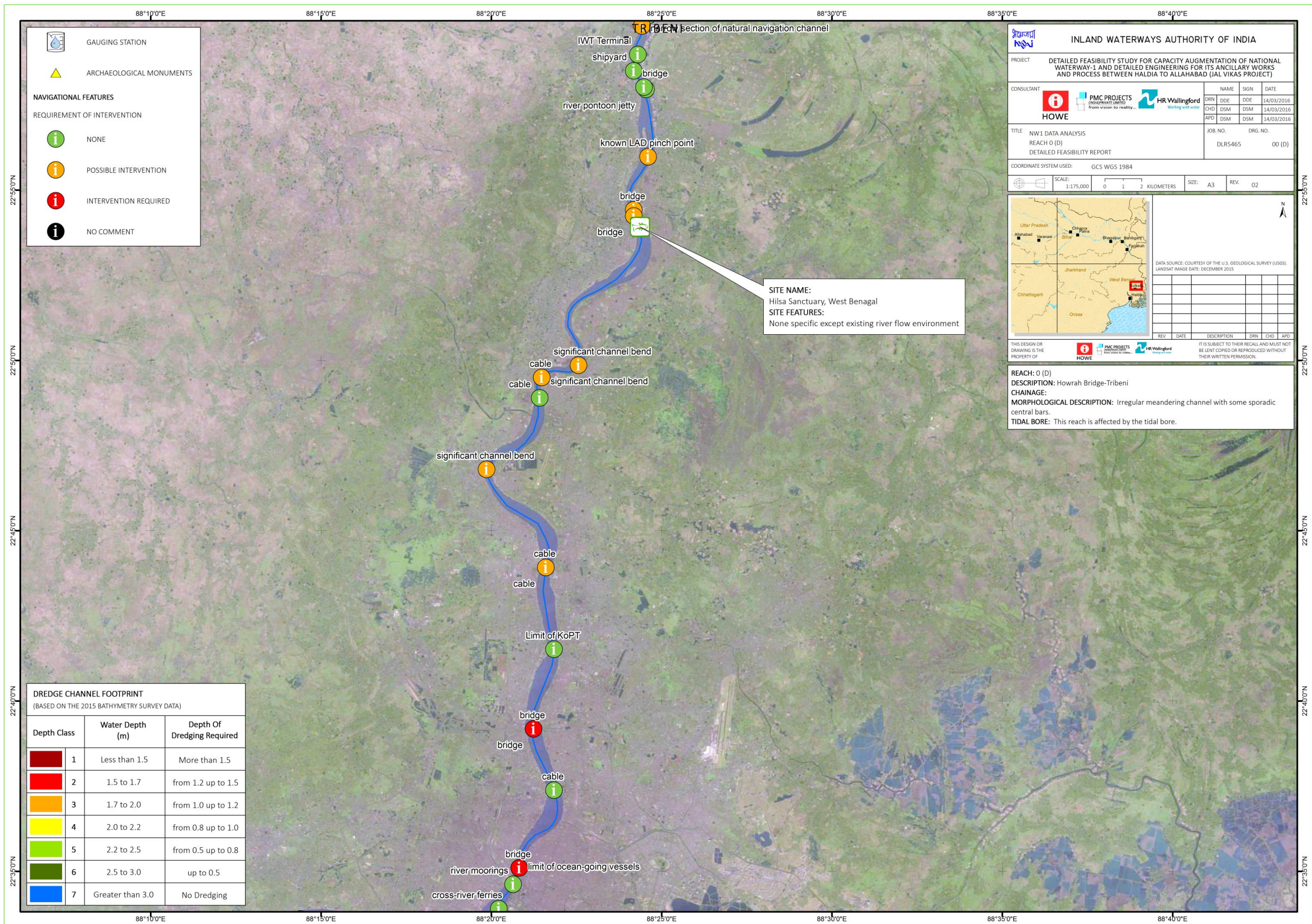
DATA SOURCE: COURTESY OF THE U.S. GEOLOGICAL SURVEY (USGS). LANDSAT IMAGE DATE: DECEMBER 2015.

REV	DATE	DESCRIPTION	DRN	CHD	APD

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REACH: 0 (B)  
 DESCRIPTION: Haldia-Diamond Sand  
 CHAINAGE:  
 MORPHOLOGICAL DESCRIPTION: Split channel with central islands.  
 TIDAL BORE: This reach is affected by the tidal bore.





**GAUGING STATION**  
 GAUGING STATION

**ARCHAEOLOGICAL MONUMENTS**  
 ARCHAEOLOGICAL MONUMENTS

**NAVIGATIONAL FEATURES**

**REQUIREMENT OF INTERVENTION**

- NONE
- POSSIBLE INTERVENTION
- INTERVENTION REQUIRED
- NO COMMENT

**DREDGE CHANNEL FOOTPRINT**  
 (BASED ON THE 2015 BATHYMETRY SURVEY DATA)

Depth Class	Water Depth (m)	Depth Of Dredging Required
	1 Less than 1.5	More than 1.5
	2 1.5 to 1.7	from 1.2 up to 1.5
	3 1.7 to 2.0	from 1.0 up to 1.2
	4 2.0 to 2.2	from 0.8 up to 1.0
	5 2.2 to 2.5	from 0.5 up to 0.8
	6 2.5 to 3.0	up to 0.5
	7 Greater than 3.0	No Dredging

**INLAND WATERWAYS AUTHORITY OF INDIA**

**PROJECT**  
 DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)

**CONSULTANT**

NAME	SIGN	DATE
DRN	DDE	DDE
CHD	DSM	DSM
APD	DSM	DSM

14/03/2016  
14/03/2016  
14/03/2016

**TITLE**  
 NW1 DATA ANALYSIS  
 REACH 0 (D)  
 DETAILED FEASIBILITY REPORT

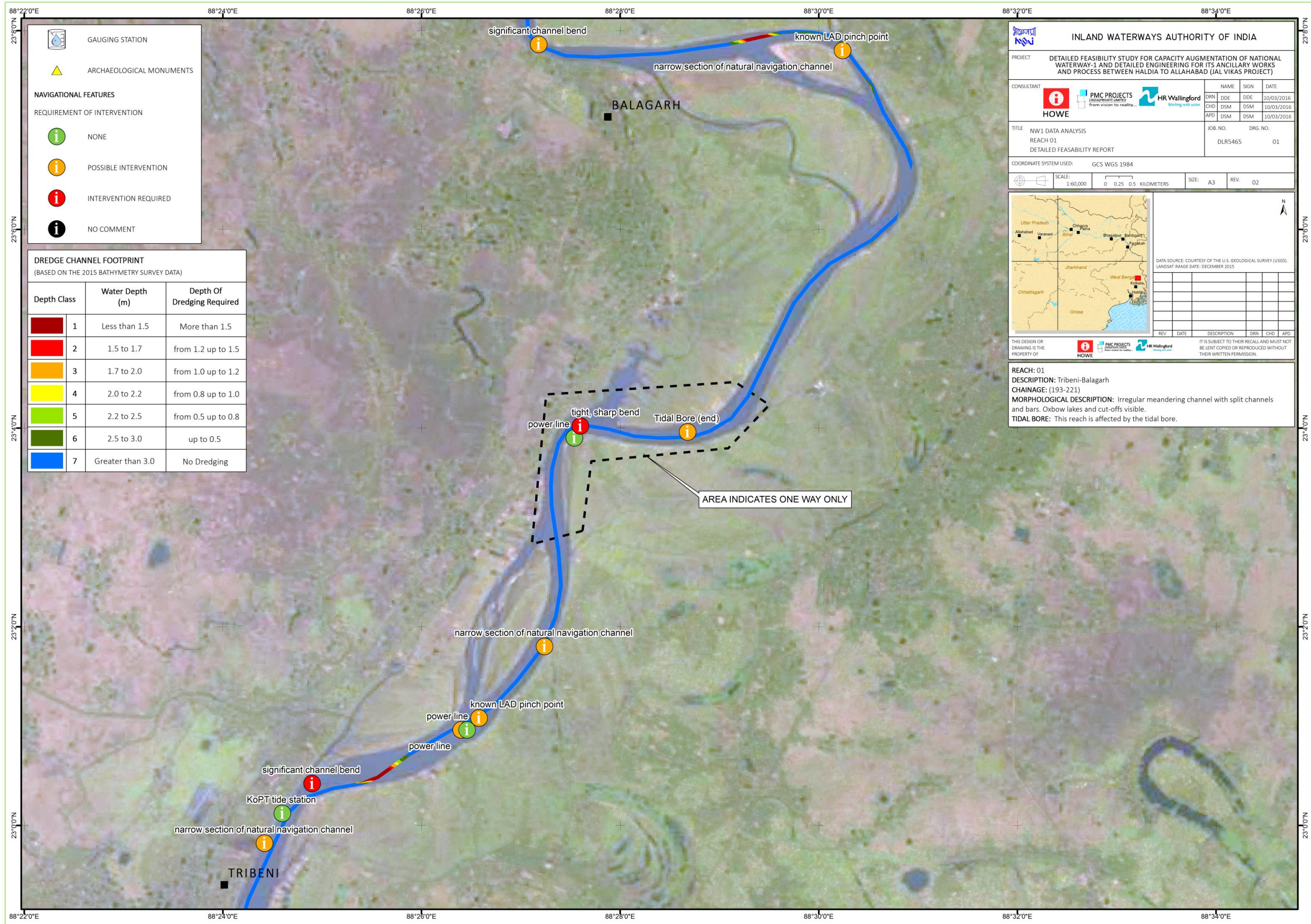
**JOB. NO.** DLR5465  
**DRG. NO.** 00 (D)

**COORDINATE SYSTEM USED:** GCS WGS 1984

**SCALE:** 1:175,000  
**SIZE:** A3  
**REV:** 02

**REACH: 0 (D)**  
**DESCRIPTION:** Howrah Bridge-Tribeni  
**CHAINAGE:**  
**MORPHOLOGICAL DESCRIPTION:** Irregular meandering channel with some sporadic central bars.  
**TIDAL BORE:** This reach is affected by the tidal bore.

**SITE NAME:**  
 Hilsa Sanctuary, West Bengal  
**SITE FEATURES:**  
 None specific except existing river flow environment



**GAUGING STATION**  
 GAUGING STATION

**ARCHAEOLOGICAL MONUMENTS**  
 ARCHAEOLOGICAL MONUMENTS

**NAVIGATIONAL FEATURES**

**REQUIREMENT OF INTERVENTION**

NONE

POSSIBLE INTERVENTION

INTERVENTION REQUIRED

NO COMMENT

**DREDGE CHANNEL FOOTPRINT**  
 (BASED ON THE 2015 BATHYMETRY SURVEY DATA)

Depth Class	Water Depth (m)	Depth Of Dredging Required
	1 Less than 1.5	More than 1.5
	2 1.5 to 1.7	from 1.2 up to 1.5
	3 1.7 to 2.0	from 1.0 up to 1.2
	4 2.0 to 2.2	from 0.8 up to 1.0
	5 2.2 to 2.5	from 0.5 up to 0.8
	6 2.5 to 3.0	up to 0.5
	7 Greater than 3.0	No Dredging

**INLAND WATERWAYS AUTHORITY OF INDIA**

PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)

CONSULTANT: **HOWE** (PMc PROJECTS GROUP PRIVATE LIMITED) | **HR Wallingford** (Working with water)

NAME	SIGN	DATE
DRN	DDE	DDE
CHD	DSM	DSM
APD	DSM	DSM

DATE: 10/03/2016

TITLE: NW1 DATA ANALYSIS REACH 01 DETAILED FEASIBILITY REPORT

JOB. NO. DLR5465 | DRG. NO. 01

COORDINATE SYSTEM USED: GCS WGS 1984

SCALE: 1:60,000 | 0 0.25 0.5 KILOMETERS | SIZE: A3 | REV: 02

DATA SOURCE: COURTESY OF THE U.S. GEOLOGICAL SURVEY (USGS). LANDSAT IMAGE DATE: DECEMBER 2015.

REV	DATE	DESCRIPTION	DRN	CHD	APD

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**REACH: 01**  
**DESCRIPTION:** Tribeni-Balagarh  
**CHAINAGE:** (193-221)  
**MORPHOLOGICAL DESCRIPTION:** Irregular meandering channel with split channels and bars. Oxbow lakes and cut-offs visible.  
**TIDAL BORE:** This reach is affected by the tidal bore.





**INLAND WATERWAYS AUTHORITY OF INDIA**

PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)

	NAME	SIGN	DATE
	DRN	DDE	DDE
	CHD	DSM	DSM
	APD	DSM	DSM

TITLE: NW1 DATA ANALYSIS  
REACH 02  
DETAILED FEASIBILITY REPORT

COORDINATE SYSTEM USED: GCS WGS 1984

SCALE: 1:60,000 | 0 0.25 0.5 KILOMETERS | SIZE: A3 | REV: 02

DATA SOURCE: COURTESY OF THE U.S. GEOLOGICAL SURVEY (USGS).  
LANDSAT IMAGE DATE: DECEMBER 2015

REV	DATE	DESCRIPTION	DRN	CHD	APD

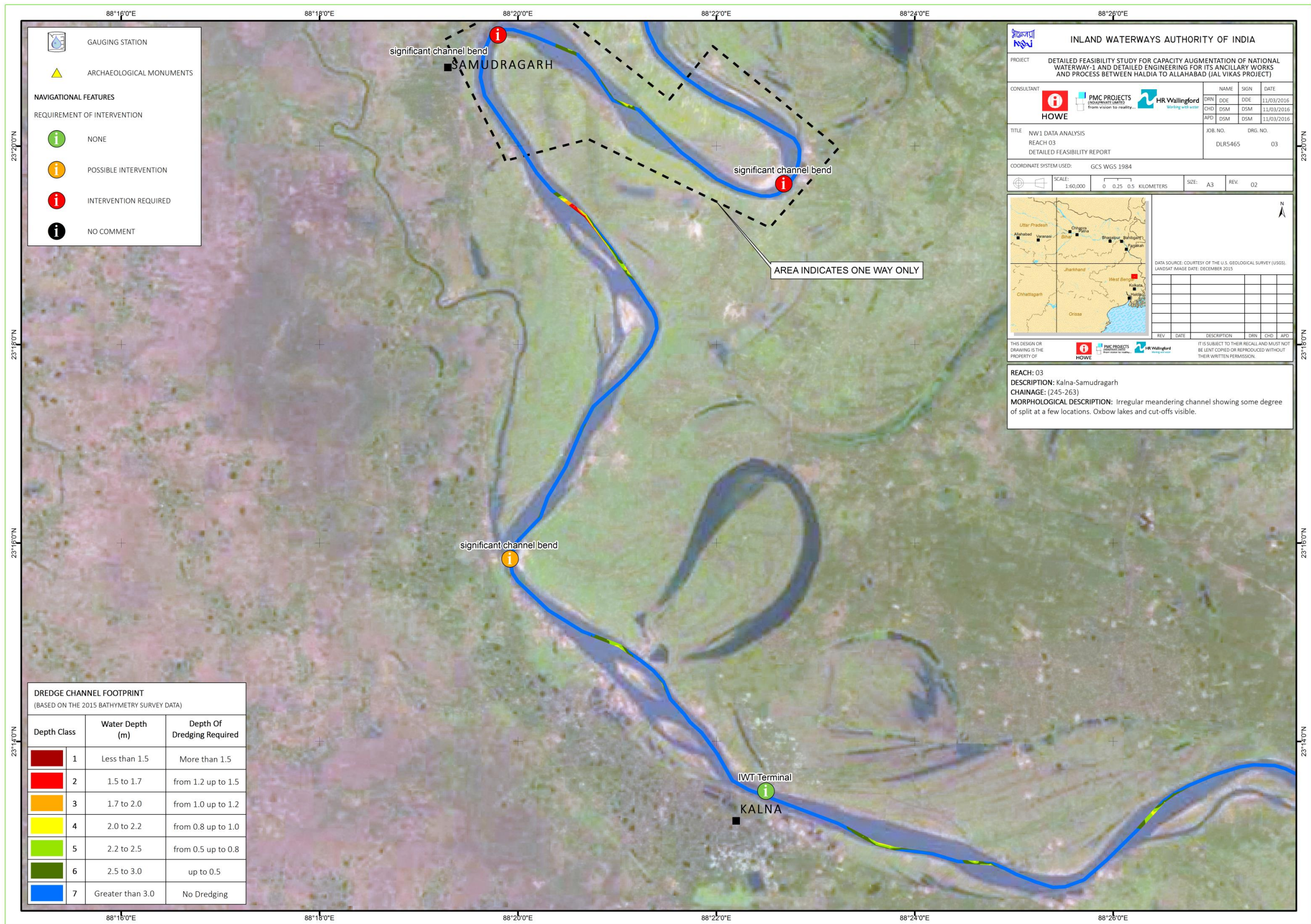
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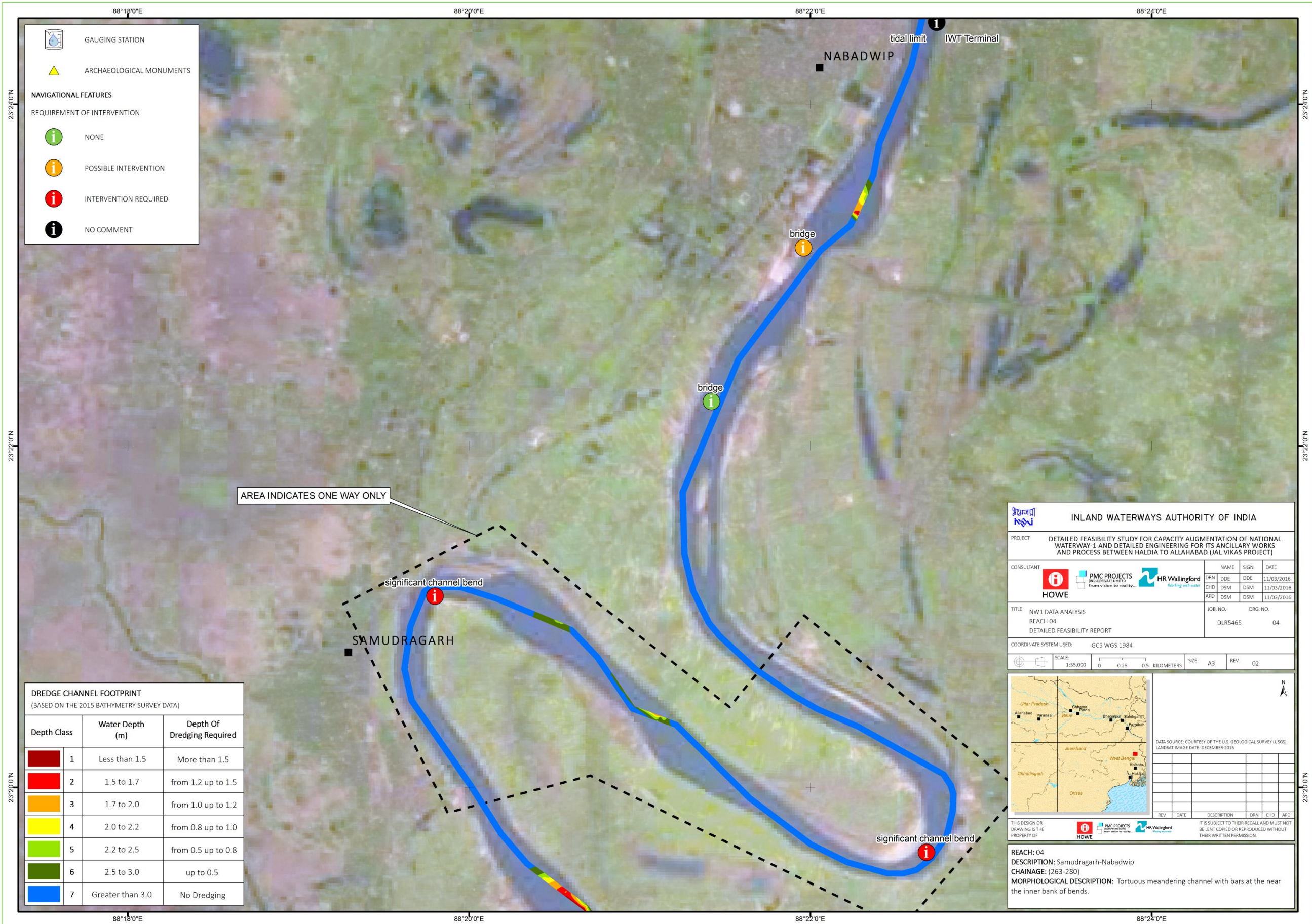
IT IS SUBJECT TO THEIR RECALL AND MUST NOT BE LENT, COPIED OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

- GAUGING STATION
  - ARCHAEOLOGICAL MONUMENTS
- NAVIGATIONAL FEATURES**
- REQUIREMENT OF INTERVENTION
- NONE
  - POSSIBLE INTERVENTION
  - INTERVENTION REQUIRED
  - NO COMMENT

**DREDGE CHANNEL FOOTPRINT**  
(BASED ON THE 2015 BATHYMETRY SURVEY DATA)

Depth Class	Water Depth (m)	Depth Of Dredging Required
1	Less than 1.5	More than 1.5
2	1.5 to 1.7	from 1.2 up to 1.5
3	1.7 to 2.0	from 1.0 up to 1.2
4	2.0 to 2.2	from 0.8 up to 1.0
5	2.2 to 2.5	from 0.5 up to 0.8
6	2.5 to 3.0	up to 0.5
7	Greater than 3.0	No Dredging





- GAUGING STATION
- ARCHAEOLOGICAL MONUMENTS
- NAVIGATIONAL FEATURES**
- REQUIREMENT OF INTERVENTION**
- NONE
- POSSIBLE INTERVENTION
- INTERVENTION REQUIRED
- NO COMMENT

DREDGE CHANNEL FOOTPRINT (BASED ON THE 2015 BATHYMETRY SURVEY DATA)		
Depth Class	Water Depth (m)	Depth Of Dredging Required
	1 Less than 1.5	More than 1.5
	2 1.5 to 1.7	from 1.2 up to 1.5
	3 1.7 to 2.0	from 1.0 up to 1.2
	4 2.0 to 2.2	from 0.8 up to 1.0
	5 2.2 to 2.5	from 0.5 up to 0.8
	6 2.5 to 3.0	up to 0.5
	7 Greater than 3.0	No Dredging

**INLAND WATERWAYS AUTHORITY OF INDIA**

**PROJECT** DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)

CONSULTANT	NAME	SIGN	DATE
	DRN	DDE	DDE 11/03/2016
	CHD	DSM	DSM 11/03/2016
	APD	DSM	DSM 11/03/2016

**TITLE** NW1 DATA ANALYSIS  
REACH 04  
DETAILED FEASIBILITY REPORT

**COORDINATE SYSTEM USED:** GCS WGS 1984

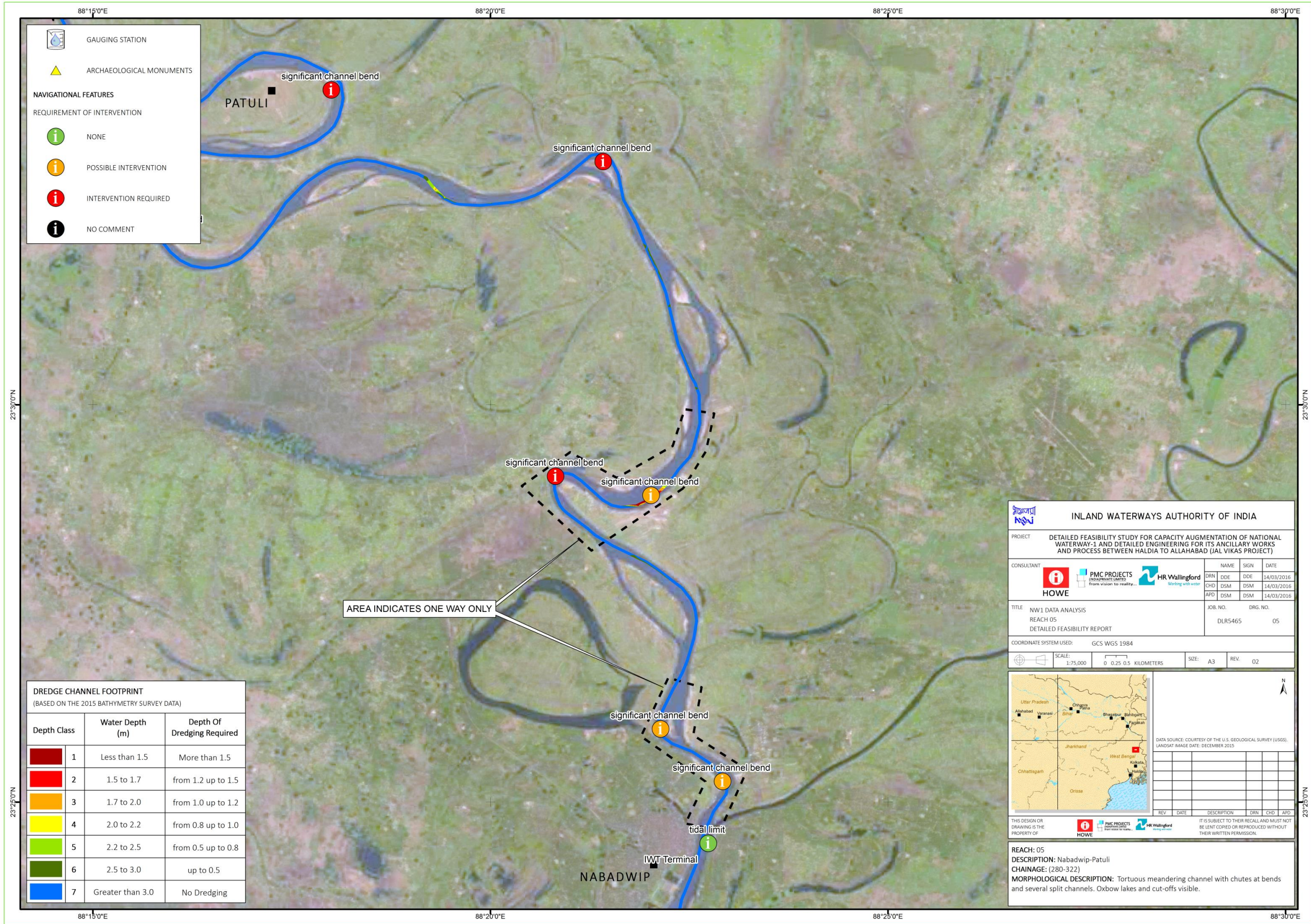
**SCALE:** 1:35,000    **SIZE:** A3    **REV:** 02

**LOCATION MAP:** Shows the project reach between Allahabad and Nabadwip on National Waterway-1.

**DATA SOURCE:** COURTESY OF THE U.S. GEOLOGICAL SURVEY (USGS); LANDSAT IMAGE DATE: DECEMBER 2015

REV	DATE	DESCRIPTION	DRN	CHD	APD

**REACH: 04**  
**DESCRIPTION:** Samudragarh-Nabadwip  
**CHAINAGE:** (263-280)  
**MORPHOLOGICAL DESCRIPTION:** Tortuous meandering channel with bars at the near the inner bank of bends.



**GAUGING STATION**  
 GAUGING STATION

**ARCHAEOLOGICAL MONUMENTS**  
 ARCHAEOLOGICAL MONUMENTS

**NAVIGATIONAL FEATURES**

**REQUIREMENT OF INTERVENTION**

- NONE
- POSSIBLE INTERVENTION
- INTERVENTION REQUIRED
- NO COMMENT

**DREDGE CHANNEL FOOTPRINT**  
 (BASED ON THE 2015 BATHYMETRY SURVEY DATA)

Depth Class	Water Depth (m)	Depth Of Dredging Required
	1 Less than 1.5	More than 1.5
	2 1.5 to 1.7	from 1.2 up to 1.5
	3 1.7 to 2.0	from 1.0 up to 1.2
	4 2.0 to 2.2	from 0.8 up to 1.0
	5 2.2 to 2.5	from 0.5 up to 0.8
	6 2.5 to 3.0	up to 0.5
	7 Greater than 3.0	No Dredging

**INLAND WATERWAYS AUTHORITY OF INDIA**

**PROJECT** DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)

**CONSULTANT**

			NAME	SIGN	DATE
DRN	DDE	DDE	DRN	DDE	14/03/2016
CHD	DSM	DSM	CHD	DSM	14/03/2016
APD	DSM	DSM	APD	DSM	14/03/2016

**TITLE** NW1 DATA ANALYSIS REACH 05 DETAILED FEASIBILITY REPORT

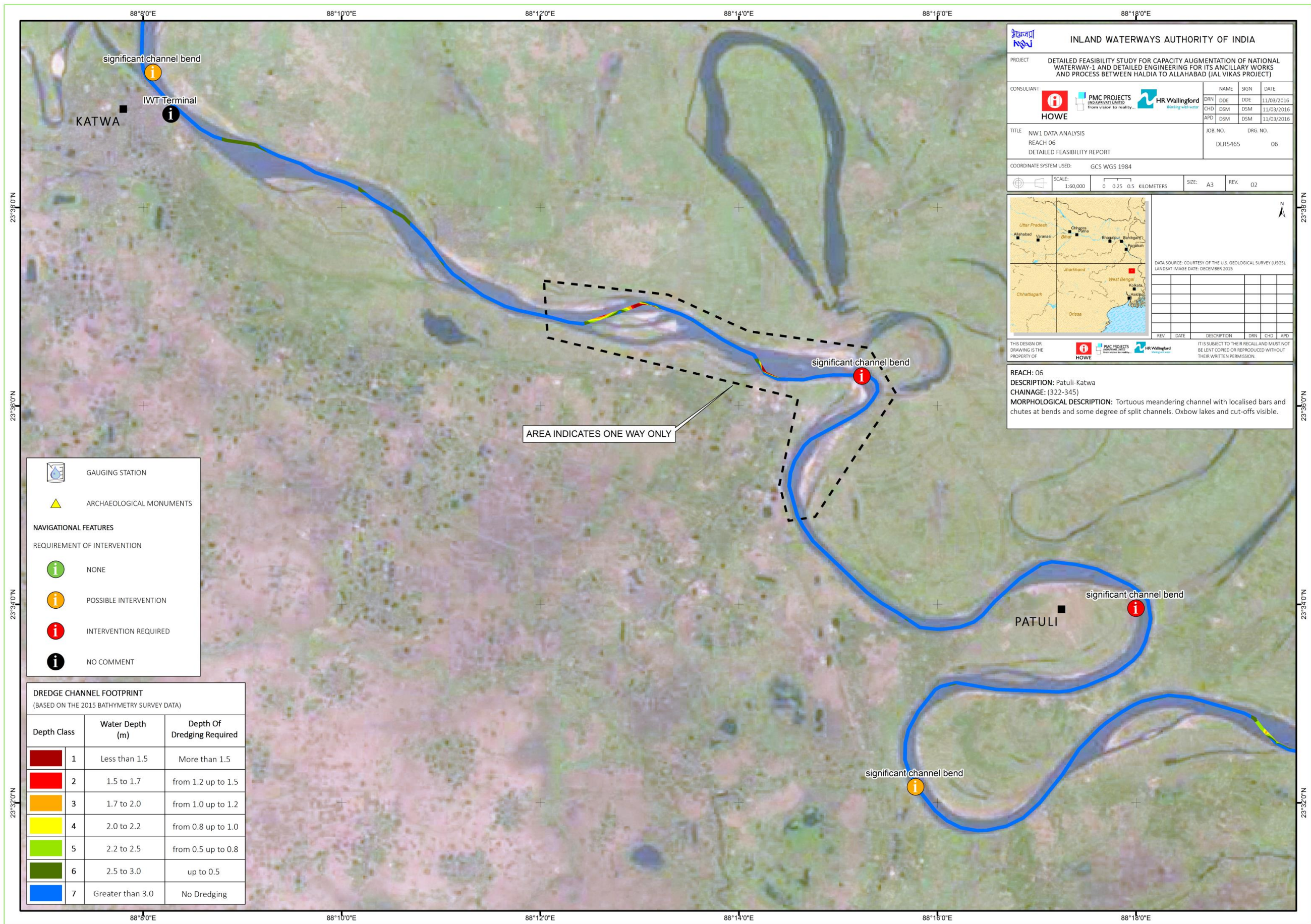
**JOB. NO.** DLR5465 **DRG. NO.** 05

**COORDINATE SYSTEM USED:** GCS WGS 1984

**SCALE:** 1:75,000 **SIZE:** A3 **REV.** 02

**DATA SOURCE:** COURTESY OF THE U.S. GEOLOGICAL SURVEY (USGS). LANDSAT IMAGE DATE: DECEMBER 2015

**REACH: 05**  
**DESCRIPTION:** Nabadwip-Patuli  
**CHAINAGE:** (280-322)  
**MORPHOLOGICAL DESCRIPTION:** Tortuous meandering channel with chutes at bends and several split channels. Oxbow lakes and cut-offs visible.



**INLAND WATERWAYS AUTHORITY OF INDIA**

**PROJECT:** DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)

			NAME	SIGN	DATE	
			DRN	DDE	DDE	11/03/2016
			CHD	DSM	DSM	11/03/2016
<b>TITLE:</b> NW1 DATA ANALYSIS REACH 06 DETAILED FEASIBILITY REPORT			JOB. NO.	DRG. NO.		
			DLS465	06		

COORDINATE SYSTEM USED: GCS WGS 1984

SCALE: 1:60,000    0 0.25 0.5 KILOMETERS    SIZE: A3    REV: 02

DATA SOURCE: COURTESY OF THE U.S. GEOLOGICAL SURVEY (USGS). LANDSAT IMAGE DATE: DECEMBER 2015.

REV	DATE	DESCRIPTION	DRN	CHD	APD

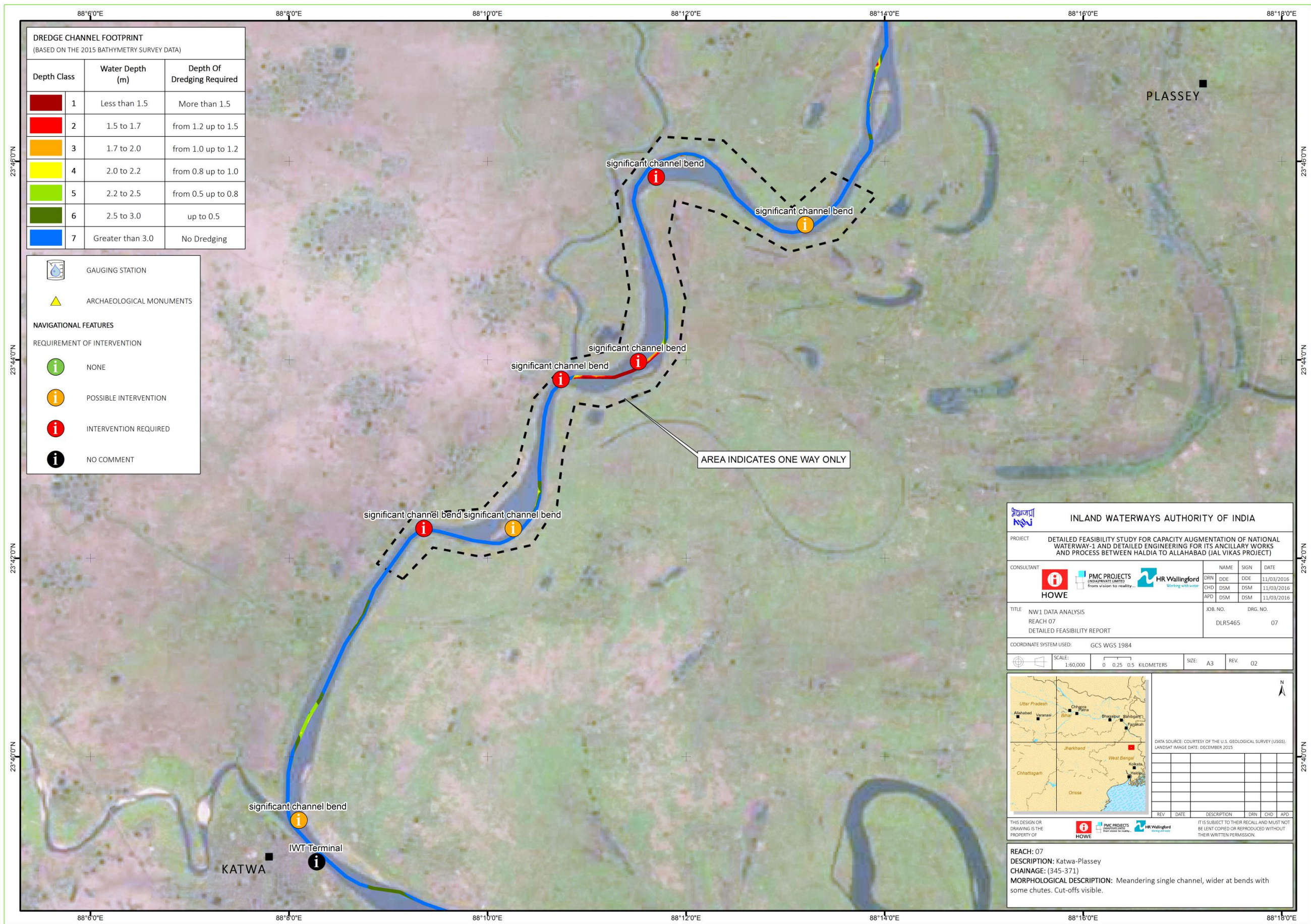
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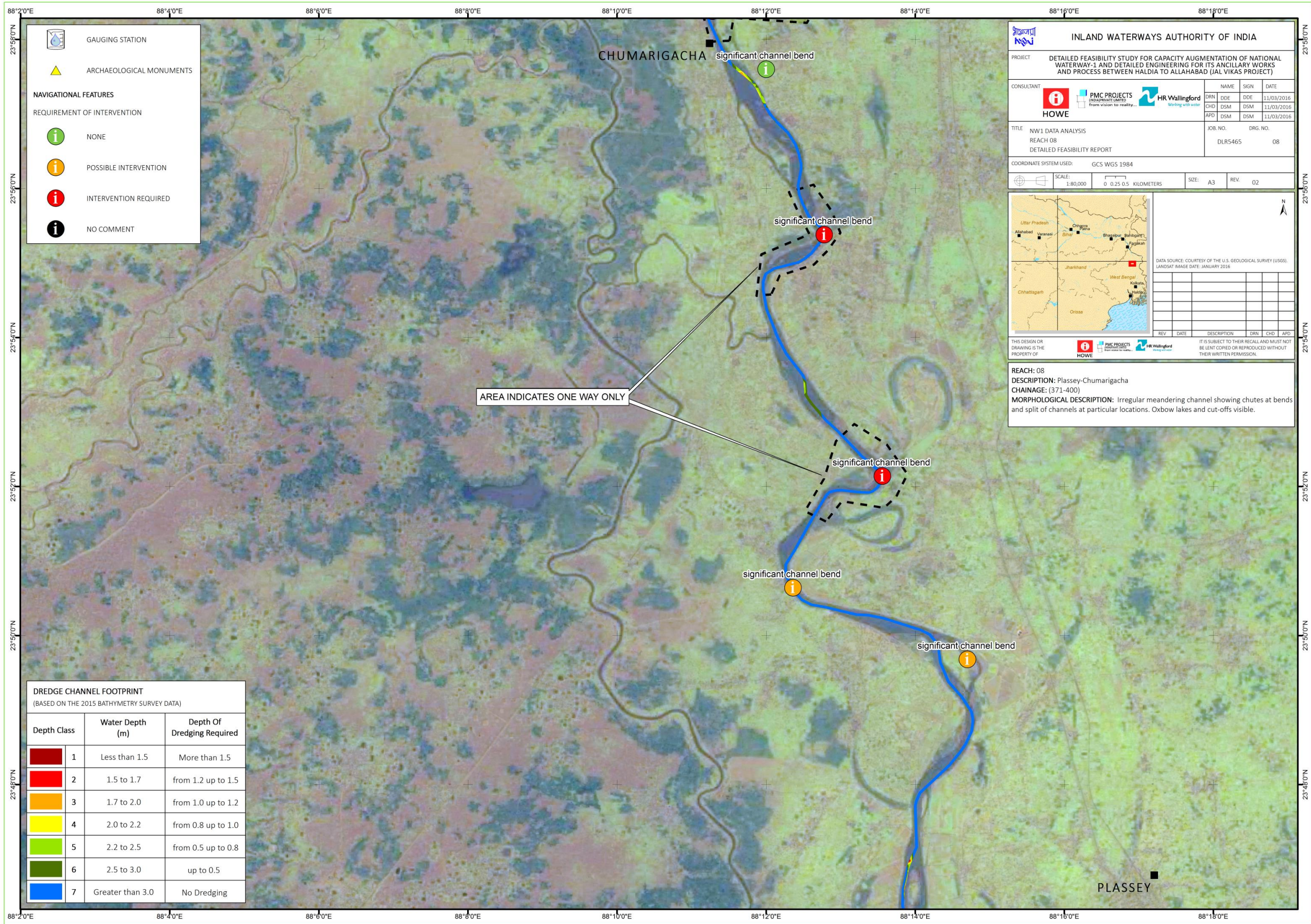
**REACH: 06**  
**DESCRIPTION:** Patuli-Katwa  
**CHAINAGE:** (322-345)  
**MORPHOLOGICAL DESCRIPTION:** Tortuous meandering channel with localised bars and chutes at bends and some degree of split channels. Oxbow lakes and cut-offs visible.

- GAUGING STATION
  - ARCHAEOLOGICAL MONUMENTS
- NAVIGATIONAL FEATURES**
- REQUIREMENT OF INTERVENTION
- NONE
  - POSSIBLE INTERVENTION
  - INTERVENTION REQUIRED
  - NO COMMENT

**DREDGE CHANNEL FOOTPRINT**  
(BASED ON THE 2015 BATHYMETRY SURVEY DATA)

Depth Class	Water Depth (m)	Depth Of Dredging Required
1	Less than 1.5	More than 1.5
2	1.5 to 1.7	from 1.2 up to 1.5
3	1.7 to 2.0	from 1.0 up to 1.2
4	2.0 to 2.2	from 0.8 up to 1.0
5	2.2 to 2.5	from 0.5 up to 0.8
6	2.5 to 3.0	up to 0.5
7	Greater than 3.0	No Dredging





**GAUGING STATION**  
 GAUGING STATION

**ARCHAEOLOGICAL MONUMENTS**  
 ARCHAEOLOGICAL MONUMENTS

**NAVIGATIONAL FEATURES**

**REQUIREMENT OF INTERVENTION**

- NONE
- POSSIBLE INTERVENTION
- INTERVENTION REQUIRED
- NO COMMENT

**DREDGE CHANNEL FOOTPRINT**  
 (BASED ON THE 2015 BATHYMETRY SURVEY DATA)

Depth Class	Water Depth (m)	Depth Of Dredging Required
	1 Less than 1.5	More than 1.5
	2 1.5 to 1.7	from 1.2 up to 1.5
	3 1.7 to 2.0	from 1.0 up to 1.2
	4 2.0 to 2.2	from 0.8 up to 1.0
	5 2.2 to 2.5	from 0.5 up to 0.8
	6 2.5 to 3.0	up to 0.5
	7 Greater than 3.0	No Dredging

**INLAND WATERWAYS AUTHORITY OF INDIA**

**PROJECT** DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)

**CONSULTANT**

NAME	SIGN	DATE
DRN	DDE	DDE
CHD	DSM	DSM
APD	DSM	DSM

11/03/2016  
11/03/2016  
11/03/2016

**TITLE** NW1 DATA ANALYSIS  
REACH 08  
DETAILED FEASIBILITY REPORT

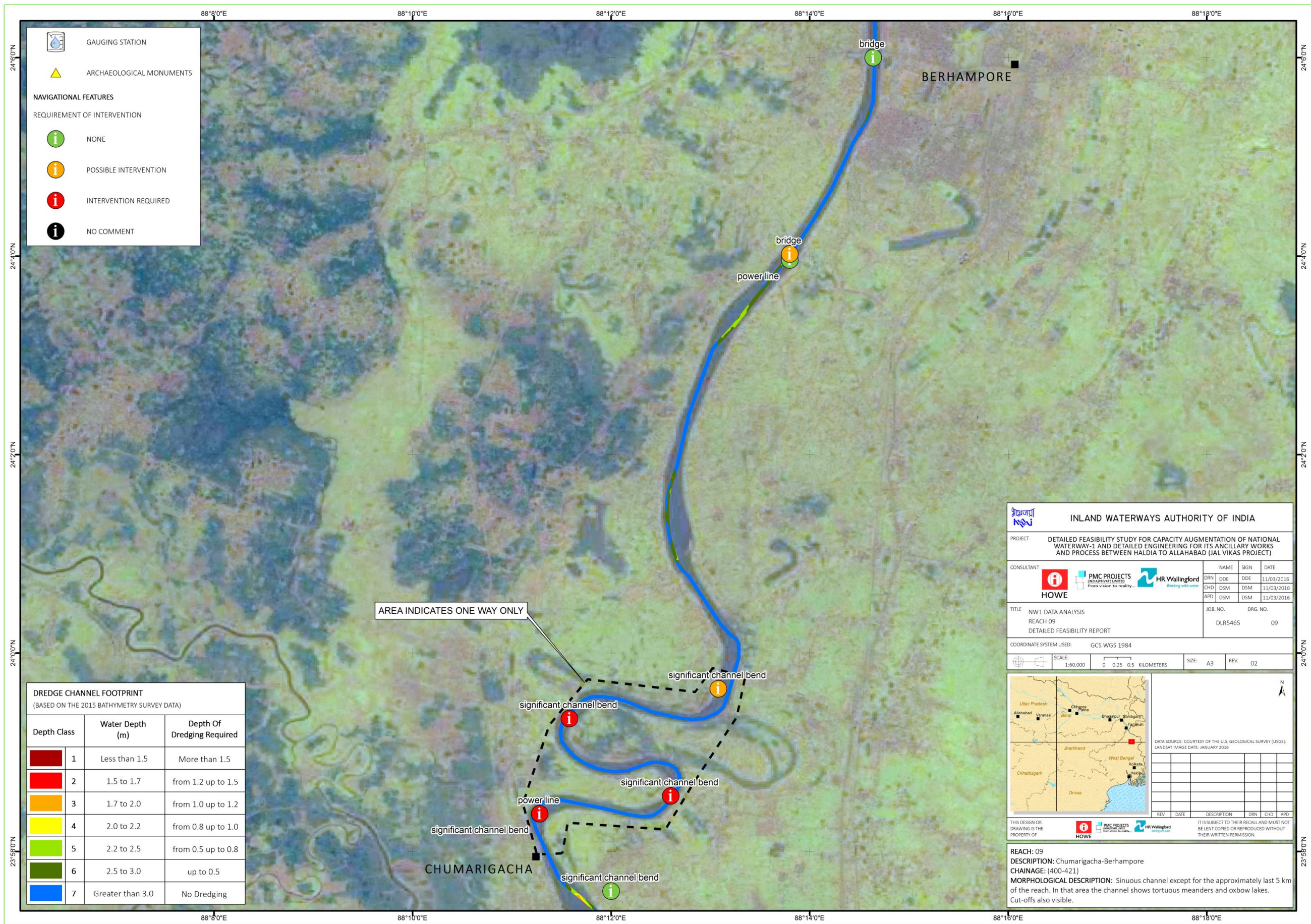
**JOB. NO.** DLR5465  
**DRG. NO.** 08

**COORDINATE SYSTEM USED:** GCS WGS 1984

**SCALE:** 1:80,000  
0 0.25 0.5 KILOMETERS

**SIZE:** A3  
**REV:** 02

**REACH: 08**  
**DESCRIPTION:** Plassey-Chumarigacha  
**CHAINAGE:** (371-400)  
**MORPHOLOGICAL DESCRIPTION:** Irregular meandering channel showing chutes at bends and split of channels at particular locations. Oxbow lakes and cut-offs visible.



**GAUGING STATION**  
 GAUGING STATION

**ARCHAEOLOGICAL MONUMENTS**  
 ARCHAEOLOGICAL MONUMENTS

**NAVIGATIONAL FEATURES**

**REQUIREMENT OF INTERVENTION**

NONE

POSSIBLE INTERVENTION

INTERVENTION REQUIRED

NO COMMENT

**DREDGE CHANNEL FOOTPRINT**  
 (BASED ON THE 2015 BATHYMETRY SURVEY DATA)

Depth Class	Water Depth (m)	Depth Of Dredging Required
	1 Less than 1.5	More than 1.5
	2 1.5 to 1.7	from 1.2 up to 1.5
	3 1.7 to 2.0	from 1.0 up to 1.2
	4 2.0 to 2.2	from 0.8 up to 1.0
	5 2.2 to 2.5	from 0.5 up to 0.8
	6 2.5 to 3.0	up to 0.5
	7 Greater than 3.0	No Dredging

AREA INDICATES ONE WAY ONLY

**INLAND WATERWAYS AUTHORITY OF INDIA**

**PROJECT** DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)

**CONSULTANT**

			NAME	SIGN	DATE
			DRN	DDE	DDE
			CHD	DSM	DSM
			APD	DSM	DSM

**TITLE** NW1 DATA ANALYSIS  
 REACH 09  
 DETAILED FEASIBILITY REPORT

**JOB. NO.** DLR5465  
**DRG. NO.** 09

**COORDINATE SYSTEM USED:** GCS WGS 1984

**SCALE:** 1:60,000  
 0 0.25 0.5 KILOMETERS

**SIZE:** A3  
**REV.** 02

**DATA SOURCE:** COURTESY OF THE U.S. GEOLOGICAL SURVEY (USGS).  
 LANDSAT IMAGE DATE: JANUARY 2016

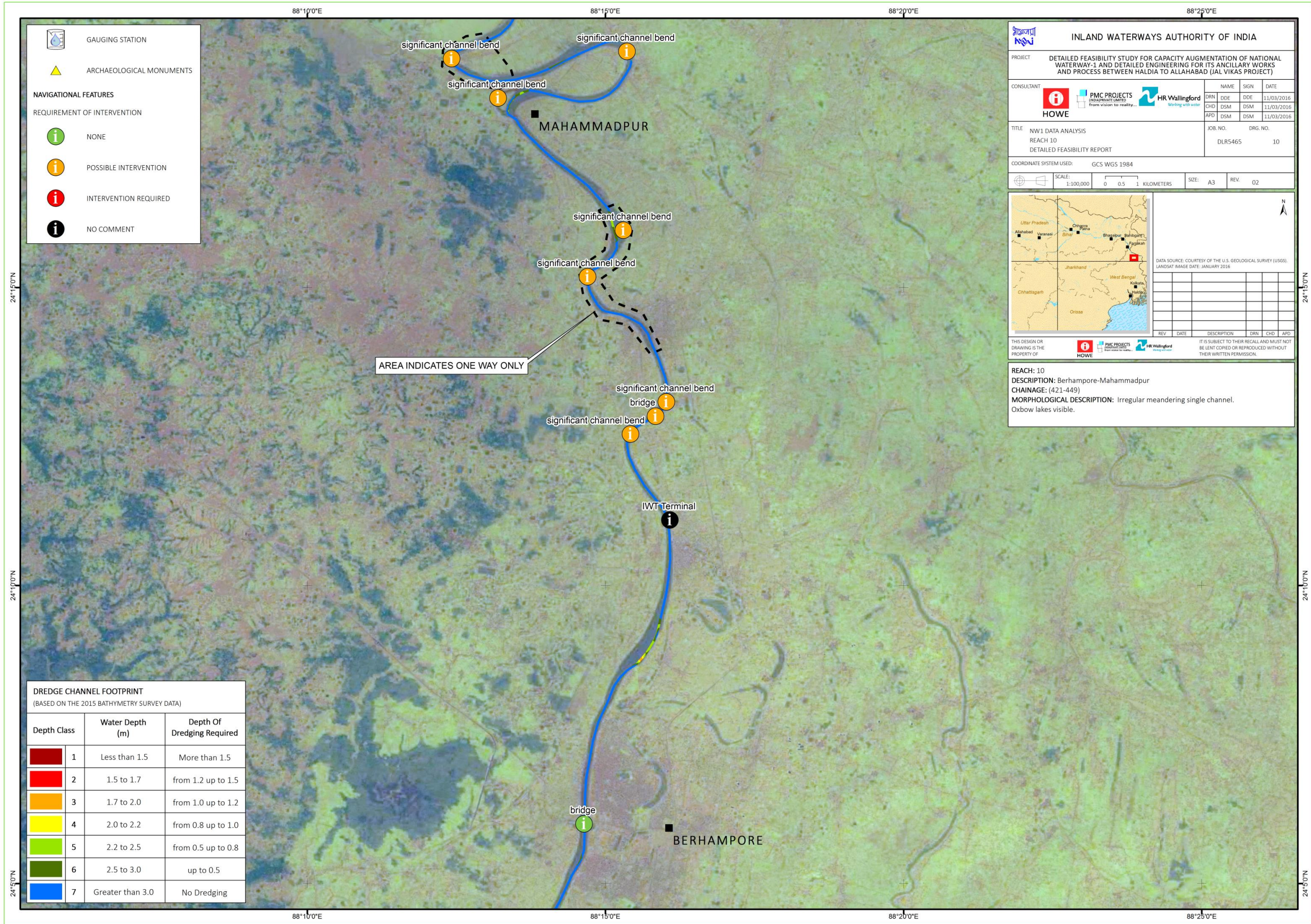
REV	DATE	DESCRIPTION	DRN	CHD	APD

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**REACH: 09**  
**DESCRIPTION:** Chumarigacha-Berhampore  
**CHAINAGE:** (400-421)  
**MORPHOLOGICAL DESCRIPTION:** Sinuous channel except for the approximately last 5 km of the reach. In that area the channel shows tortuous meanders and oxbow lakes. Cut-offs also visible.





**GAUGING STATION**  
 GAUGING STATION

**ARCHAEOLOGICAL MONUMENTS**  
 ARCHAEOLOGICAL MONUMENTS

**NAVIGATIONAL FEATURES**

**REQUIREMENT OF INTERVENTION**

- NONE
- POSSIBLE INTERVENTION
- INTERVENTION REQUIRED
- NO COMMENT

**DREDGE CHANNEL FOOTPRINT**  
 (BASED ON THE 2015 BATHYMETRY SURVEY DATA)

Depth Class	Water Depth (m)	Depth Of Dredging Required
	1 Less than 1.5	More than 1.5
	2 1.5 to 1.7	from 1.2 up to 1.5
	3 1.7 to 2.0	from 1.0 up to 1.2
	4 2.0 to 2.2	from 0.8 up to 1.0
	5 2.2 to 2.5	from 0.5 up to 0.8
	6 2.5 to 3.0	up to 0.5
	7 Greater than 3.0	No Dredging

**INLAND WATERWAYS AUTHORITY OF INDIA**

**PROJECT**  
 DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)

**CONSULTANT**

NAME	SIGN	DATE
DRN	DDE	DDE
CHD	DSM	DSM
APD	DSM	DSM

11/03/2016  
11/03/2016  
11/03/2016

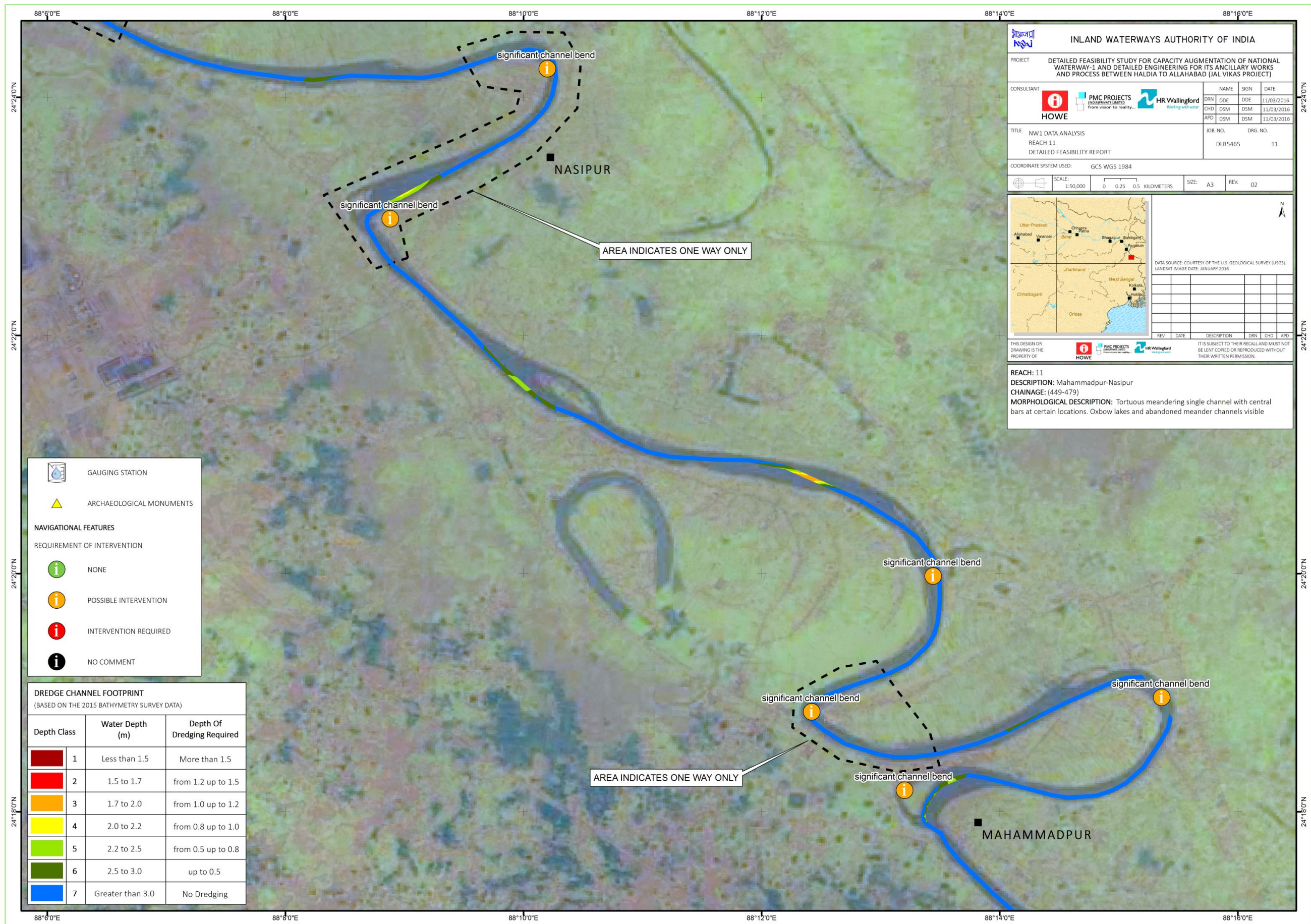
**TITLE**  
 NW1 DATA ANALYSIS  
 REACH 10  
 DETAILED FEASIBILITY REPORT

**JOB. NO.** DLR5465  
**DRG. NO.** 10

**COORDINATE SYSTEM USED:** GCS WGS 1984

**SCALE:** 1:100,000  
**SIZE:** A3  
**REV:** 02

**REACH: 10**  
**DESCRIPTION:** Berhampore-Mahammadpur  
**CHAINAGE:** (421-449)  
**MORPHOLOGICAL DESCRIPTION:** irregular meandering single channel. Oxbow lakes visible.



**INLAND WATERWAYS AUTHORITY OF INDIA**

PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)

CONSULTANT: **HOWE** (PMc PROJECTS GROUP/PRIVATE LIMITED) and **HR Wallingford** (Working with water)

NAME	SIGN	DATE
DRN	DDE	DDE
CHD	DSM	DSM
APD	DSM	DSM
11/03/2016	11/03/2016	11/03/2016

TITLE: NW1 DATA ANALYSIS  
REACH 11  
DETAILED FEASIBILITY REPORT

JOB. NO.: DLR5465  
DRG. NO.: 11

COORDINATE SYSTEM USED: GCS WGS 1984

SCALE: 1:50,000 (0 to 0.5 KILOMETERS)

SIZE: A3  
REV: 02

DATA SOURCE: COURTESY OF THE U.S. GEOLOGICAL SURVEY (USGS).  
LANDSAT IMAGE DATE: JANUARY 2016

REV	DATE	DESCRIPTION	DRN	CHD	APD

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**REACH: 11**  
**DESCRIPTION:** Mahammadpur-Nasipur  
**CHAINAGE:** (449-479)  
**MORPHOLOGICAL DESCRIPTION:** Tortuous meandering single channel with central bars at certain locations. Oxbow lakes and abandoned meander channels visible

- GAUGING STATION
- ARCHAEOLOGICAL MONUMENTS
- NAVIGATIONAL FEATURES**
- REQUIREMENT OF INTERVENTION**
- NONE
- POSSIBLE INTERVENTION
- INTERVENTION REQUIRED
- NO COMMENT

**DREDGE CHANNEL FOOTPRINT**  
(BASED ON THE 2015 BATHYMETRY SURVEY DATA)

Depth Class	Water Depth (m)	Depth Of Dredging Required
1	Less than 1.5	More than 1.5
2	1.5 to 1.7	from 1.2 up to 1.5
3	1.7 to 2.0	from 1.0 up to 1.2
4	2.0 to 2.2	from 0.8 up to 1.0
5	2.2 to 2.5	from 0.5 up to 0.8
6	2.5 to 3.0	up to 0.5
7	Greater than 3.0	No Dredging



