

Status of the Major Projects of Inland Waterways Authority of India

PROJECT DESCRIPTION: JAL MARG VIKAS PROJECT FOR CAPACITY AUGMENTATION OF NAVIGATION ON NATIONAL WATERWAY-1

Sl. No	Project Activity	Timeline	Status as on 31 st August, 2018
1.	PRE-INVESTMENT ACTIVITIES		
1.1	Institutional arrangements.	November, 2014	<ul style="list-style-type: none"> • Setting up of Project Management Unit: June, 2014. • Designation of IWAI as the Project Implementing Agency: October, 2014. • Constitution of Project Oversight Committee (POC) to give critical guidance and evaluation of the project: September, 2014. • Setting up Project Implementation Units at Patna and Kolkata - April, 2016; at Varanasi, Sahibganj, Farakka and Haldia – April, 2018. • Setting up a Public Grievance Redress Mechanism with a Toll Free Telephone (No.1800-180-4152): December, 2016.
1.2	Detailed Feasibility Study on NW-1 and Detailed Engineering for Ancillary Works.	August, 2016	<ul style="list-style-type: none"> • The Consultant: Joint venture of M/s Howe Engineering Projects (India) Pvt. Ltd., M/s HR Wallingford Ltd and M/s PMC Projects (India) Pvt. Ltd. • Date of award: 25.05.2015. • Status: Study ongoing.
1.3	Environmental and Social Impact Assessment (ESIA), Environmental Management Plan (EMP) and Resettlement Action Plan (RAP)	November, 2015	<ul style="list-style-type: none"> • The Consultant: Joint Venture of M/s. EQMS India Pvt. Ltd., M/s. Abnaki Infrastructure Application & Integrated Development Pvt. Ltd. and IRG Systems South Asia Pvt. Ltd. • Date of award: 24.03.2015. • Status: Study completed.

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			<ul style="list-style-type: none"> • Consultant for EIA and EMP Study for Ghazipur and Kalughat terminals: M/s EQMS. • Date of award: 22.11.17. • Status: Draft EIA and EMP reports for both Ghazipur and Kalughat terminals submitted.
1.4	IWT sector development Strategy and Market Development Study on NW-1	April, 2016	<ul style="list-style-type: none"> • The Consultancy: Joint Venture of M/s. Hamburg Port Consulting, M/s. Universal Transport Consulting, M/s. IMS Ingenieursgesellchat Gmbh and M/s. Ramboll India. • Date of award: 24.04.2015. • Status: Study completed.
1.5	Support Services for Design of Inland vessels.		<ul style="list-style-type: none"> • The Consultant: M/s DST, Germany. • Date of award: 19.08.2016. • Status: Consultancy completed with submission of stipulated 13 designs. Designs accepted.
1.6	Ship Model Testing	Dec. 2017	<ul style="list-style-type: none"> • The Contractor: M/s DST Germany. • Date of award: 28.11.2017. • Status: Testing completed. Two witness visits to DST Germany conducted.
1.7	Consultancy services for planning and implementation of commercialization on NW-1	March, 2018	<ul style="list-style-type: none"> • The Consultant: M/s Hamburg Port Consulting. • Date of award: 31.01.2017. • Status: Eleven, out of 20, pilot movements of vessels conducted.
1.8	Project preparatory and definition study for development of ferry	November, 2018	<ul style="list-style-type: none"> • Consultant: JV of M/s Thompson Design Group and Massachusetts Institute of Technology/IAL. • Date of award: 21.12.2016.

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	services on NW-1.		<ul style="list-style-type: none"> • Status: DPRs for the ferry services at Varanasi, Patna, Munger, Bhagalpur, Kolkata and Haldia are to be submitted by the Consultants. Pre-feasibility reports for Varanasi and Patna have been submitted.
1.9	Communications Needs Assessment Study for Jal Marg Vikas Project for capacity augmentation of navigational infrastructure on National Waterway-1.	May, 2017	<ul style="list-style-type: none"> • Consultant: M/s. AMS Consulting (P) Limited, Lucknow. • Date of award: 05.01.2017. • Status: Report submitted by the Consultant. • IWAI is taking action as per the report submitted by the Consultant.
1.10	Designing of JMVP website.	14 weeks after signing the contract.	<ul style="list-style-type: none"> • Contractor: M/s. Compton Computers Pvt. Ltd, Kalkaji, Delhi. • Date of award: 07.07.2017. • Status: Security/Testing underway and content being uploaded.
1.11	Consultancy services for study on the effect of navigational activities on dolphins in NW-1	One year after award of work.	<ul style="list-style-type: none"> • Consultant: M/s EQMS. • Date of award: 20.12.2017. • Status: Study ongoing.
1.12	Risk Assessment and Disaster Management Plan for NW-1	6 months after award of work.	<ul style="list-style-type: none"> • Consultants: M/s Kitco Limited, Kochi. • Date of Award: 04.04.2018 • Value : ₹ 69,47,425/- • Status: Inception Report submitted by the Consultant on 25.04.2018 and the study is underway.
1.13	Consultancy Services for Asset Management & Operation Framework Development for NW-1	65 weeks after signing the contract	<ul style="list-style-type: none"> • Consultants: (1) M/s KPMG Advisory Services P. Ltd.; (2) M/s Maritime & Transport Business Solutions B.V.; and (3) Advaita Legal. • Date of Award: 13th February, 2018 • Value: ₹7.95 crores. • Status: Inception Report submitted by the Consultants.

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			<ul style="list-style-type: none"> RFQ, RFP and Agreement for Operation, Maintenance and Development of the Multi-Modal Terminal, Varanasi submitted.
1.14	Technical Support Services Consultants		<p><u>For Project on Varanasi-Sahibganj Stretch (TSSC-I)</u> Contractor: JV of M/s Egis India Consulting Engineers Pvt. Ltd & Egis France International.</p> <ul style="list-style-type: none"> Date of Award: 22.01.2018. Date of Mobilization at site: 24.02.2018 MIS Expert -cum-Project Coordinator has been deployed at JMVP, Noida Team Leader stationed at Varanasi, Uttar Pradesh. <p><u>For projects on Farakka and Haldia stretch (TSSC-II)</u></p> <ul style="list-style-type: none"> Contractor: Joint Venture of M/s Arkitechno Consultants (I) Pvt. Ltd, Bhubaneswar and M/s IR CLASS Systems & Structures Pvt. Ltd., Mumbai Date of award: 08.11.2017. Date of Mobilization at site: 15.11.2017 Project Coordinator deployed at JMVP, Noida Various Key-experts deployed at respective sites for supervision and monitoring. Date of Mobilization at site: 15.11.2017 <p><u>For supervision of dredging contracts</u> Tendering process is in progress.</p>
1.15	Resettlement Action Plan for Sahibganj.		EoI issued on 08.08.18. The opening of EoIs is scheduled to be held on .60.09.18.
1.16	ESIA, EMP and RAP for additional interventions in JMVP		EoI issued on 08.08.18. EoI opened on 30.08.18 and the evaluation process is in progress.
1.17	Setting up of Digital Control Centre		EoI published on 30.5.2018 with opening date as 27.06.2018. As no response was

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			received, procurement action has been dropped.
1.18	Geo-technical Investigation for bank protection and Ro-Ro locations at various locations on NW-1.		RFP issued on 30.05.2018. Technical bid opened on 29.06.2018 and the bid evaluation report is under consideration for opening of price bids.
1.19	Appraisal of the Project by PIB	June 2018	<ul style="list-style-type: none"> • Dates of appraisal: 03.01.2017 and 06.03.2017. • Estimated project cost: ₹. 5,369.18 crore. • Recommendation: After resolving the issue of requirement of environment clearance for maintenance dredging, the proposal may be placed before the Cabinet for approval. • Status: MoEF&CC conveyed on 21.12.2017 their decision that maintenance dredging in rivers do not require prior environment clearance and cleared the proposal for implementation subject to IWAI implementing certain environment safety measures prescribed by MoEF&CC. • CCEA approved the project proposal on 03.01.2018.
1.20	IBRD Loan approval	June, 2018	<ul style="list-style-type: none"> • Loan amount: USD 375 million. • Status of approval: The Board of the Executive Directors of International Bank for Reconstruction & Development approved the loan (Loan No.8752-IN) on 12th April, 2017. Loan Agreement and Project Agreement relating to the IBRD loan of USD 375.00 million were signed on 02.02.2018 between the World Bank and the Department of Economic Affairs & IWAI. The Loan Agreement and the Project Agreement have become effective from 23rd March, 2018.
2.	PROJECT IMPLEMENTATION		

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2.1	Construction of Multi-modal terminal at Haldia	October, 2019	<p><u>Land:</u></p> <ul style="list-style-type: none"> • Requirement: sixty one acres. • Status: 61 acres of land in the Haldia Dock Complex have been taken on 30-year lease from the Kolkata Port Trust. Registration of land has been completed on 23.04.2018. • Cost of lease: ₹40.22 cr. including one time premium. • Cost of registration of land: ₹3.25 crore. <p>Clearances: MoEF&CC granted CRZ clearance on 06.11.2017.</p> <p><u>Civil construction:</u></p> <ul style="list-style-type: none"> • Date of appraisal by SFC: 17.08.2016 and 05.10.2016. • Estimated cost at which appraised: ₹495 crores for Phase-I. • Contractor: M/s ITD Cementation India Ltd. • Date of award of work contract: 30.06.2017. • Cost at which awarded: ₹517.36 crore. • Terminal Capacity: 3.18 MPTA • Start date of the project: July, 2017. • Completion date of the project: December, 2019. • Physical progress: 13.49% • Financial progress: ₹ 22.16 crores. (excluding mobilization advance).
2.2	Construction of Multi-modal terminal at Varanasi.	August, 2018	<p><u>Land:</u> (a) For Phase-I(A)- 5.586 hectares already in the possession of IWAI at Ram Nagar, Varanasi.</p> <p><u>(b) For road connectivity:</u></p> <ul style="list-style-type: none"> • Connectivity: From the terminal to NH-7. • Requirement of land: 1.415 ha. located in the Districts of Varanasi and Chandauli.

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			<p>Of this, 0.823 ha. (0.053 ha Govt land and .770 ha. private land) is located in Varanasi and 0.592 (Trust land) is in Chandauli.</p> <ul style="list-style-type: none"> • Date of filing requisition: 23.04.2015. • 0.227 ha of land already transferred to IWAI. ₹3.8 crore has been paid to land owners. • 0.592 ha of trust land will be transferred to IWAI after the verdict by the Allahabad High Court. In the meantime, IWAI has been permitted to construct the road on this land by the High Court. ₹4.54 crore has already been deposited with the District Administration, Chandauli. • Demand of ₹10.47 croree for 0.597 ha of land has been received and payment is being made. Land is yet to be transferred to IWAI. • <u>Clearances:</u> The Standing Committee of National Board for Wildlife, in its meeting held on 15.05.17, recommended grant of permission for movement and plying of inland vessels through the Kashi Turtle Wild Life Sanctuary at Varanasi subject to IWAI taking the standard mitigation measures prescribed by the Wildlife Institute of India and conditions prescribed by the State Chief Wildlife Warden. <p><u>Civil Construction.</u></p> <ul style="list-style-type: none"> • Date of appraisal by SFC: 09.12.2015. • Estimated cost at which appraised: 196.84 cr. for Phase-I (A). • Contractor: M/s AFCONS Infrastructure Ltd. • Date of award: 13.05.2016. • Cost at which awarded: ₹169.70 crore. • Terminal Capacity: 1.26 MTPA • Start date of the project: June, 2016. • Targeted completion date of the project: November, 2018. • Physical progress: 83.76%. • Financial progress: ₹146.807 Cr. • Laying of foundation stone: Hon'ble Minister for Shipping, Road Transport and Highways on 12.08. 2016.
2.3	Construction of new navigational	June, 2019	<u>Land</u>

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	lock at Farakka.		<ul style="list-style-type: none"> • Requirement: 14.86 ha. • Location: Farakka Barrage Project, parallel to the existing lock. • Approval for transfer of land: By Cabinet on 06.01.2016. • Cost: ₹ 2.36 crore. • Date of transfer: 02.03.16 • Crop compensation paid to 76 locally affected persons: ₹4.48 lakhs. • The existing Navigational lock at Farakka (land measuring 7.155 Ha) handed over to IWAI on 06.04.2018 <p><u>Clearances:</u> Ministry of WR,RD & GR and NGRBA cleared the proposal.</p> <p><u>Civil construction work:</u></p> <ul style="list-style-type: none"> • Date of appraisal by the SFC: 29.07.2016. • Estimated cost at which appraised: ₹380 crore. • Contractor: M/s Larsen & Toubro Ltd. • Date of award: 24.11.2016 • Cost at which awarded: ₹359.19 crore. • Date of commencement of work: December, 2016. • Target date for completion of the project: March, 2019. • Physical progress: 26.60%. • Financial progress: ₹79.77 cr.
2.4	Construction of Multimodal Terminal at Sahibganj	April, 2019	<p><u>Land</u></p> <ul style="list-style-type: none"> • Estimated requirement of land: 195 acres. • Date of appraisal by SFC: 16.02.2016. • Estimated cost at which appraised: ₹187.00 crore, including cost of R&R. • Status of acquisition: • 183.13 acres of land for the main terminal and 9.24 acres for road connectivity

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			<p>has been fully acquired.</p> <ul style="list-style-type: none"> • ₹93.52 crore has already been paid towards land compensation. <p><u>R&R:</u></p> <ul style="list-style-type: none"> • R&R Package is to be implemented by the District Administration, Sahibganj. District Administration has identified 485 families as project affected families (PAFs). • Cost of R&R package already released to the District Administration: ₹ 47.39 crores. • R&R package sanctioned to 485 families and transferred to 417 families. Transfer pending in respect of 68 families due to non-production of requisite records by the claimants. District Administration has reminded them twice, but without any result. • Two Resettlement Colonies are being set up: The first one on a 16.47 acre land in Samdanala and the second on a 15.81 acres of land at Paltanganj. Land for both the colonies have been acquired. • Plotting of the Samdanala colony has been completed and plots allotted to 288 families in the joint names of husband and wife. However, 9 PAFs have constructed their houses outside the resettlement colony, although plots were allotted to them within the Samdanala Colony. The remaining 279 families failed to construct the houses within the stipulated time (30.04.2018). As per decision taken by the District Administration in April, 2018, the houses will now be constructed by the District Administration. • Plotting in the Paltanganj Resettlement Colony has been completed. Allotment of plots to the PAFs will be made after construction of the houses by the District Administration. • The following infrastructure is being provided in the Resettlement Colonies: School building (1); temple (2); community hall (2); boundary wall for the school; water

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			<p>supply/water tank/tube well; drainage; roads; and discharge channel.</p> <ul style="list-style-type: none"> • Construction of the school, temples, community halls and boundary wall for the school is in progress. Work order for water supply has been awarded. Estimates for road work and drainage are under finalisation by the State PWD. • Deputy Commissioner, Sahibganj has enhanced the cost of construction of each unit of residence for the displaced persons to ₹5,93,500/-, against the cost of Rs. 2,00,000/-earlier approved. The matter is under examination. <p><u>Civil construction:</u></p> <ul style="list-style-type: none"> • Date of appraisal by the SFC: 30.06.16. • Estimated cost at which appraised: ₹ 292.10 crore for Phase-I (excluding external/approach road and road over-bridge). • Contractor: M/s Larsen & Toubro Ltd. • Date of award: 27.10.2016. • Cost at which awarded: ₹280.90 crore. • Terminal Capacity: 2.24 MPTA • Start date of the project: November, 2016. • Targeted completion date of the project: May, 2019. • Physical progress: 53.63% • Financial progress: ₹134.74 cr. • Laying of foundation stone: Hon'ble Prime Minister on 06.04.2017.
2.5	Fairway Development	March, 2023	<ul style="list-style-type: none"> • Revised Dredging Management Plan and Strategy for NW-1 approved on 2.6.2017. • Scope of work under the revised plan is as under: <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Provision of LAD of 3 m and bottom channel width of 45 m on the Haldia - Farakka (351km) stretch through deployment of departmental dredgers/SPCSDs. The estimated</p> </div>

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			<p>quantity of dredging required is 4.813 million CuM.</p> <p>Provision of least assured depth (LAD) of 3m and bottom channel width of 45 m on the Farakka-Kahalgaon stretch (146 Kms) through Performance Based Assured Dredging contract. The estimated quantity of dredging required is 2.865 million CuM. Contract awarded to M/s Adani Ports & SEZ Ltd. on 09.04.2018. Value of Work: ₹150.00 crore. Work has commenced.</p> <p>Provision of LAD of 3 m and bottom channel width of 45 m on the Sultanganj-Mahendrapur stretch (74 Kms) through Performance Based Assured Dredging contract. The estimated quantity of dredging required is 3.369 million CuM. The tender was published on 13.07.2018 and the process is in progress.</p> <p>Provision of LAD of 3 m and bottom channel width of 45 m on the Mahendrapur – Barh stretch (71 Kms) through Performance Based Assured Dredging contract. The estimated quantity of dredging required is 3.232 million CuM. The Tender was published on 25.07.18 and the process is in progress.</p> <p>Provision of LAD of 2.5 m and bottom channel width of 45 m on the Barh – Doriganj stretch (109 kms) through Quantity based maintenance dredging contract (Mix & Match – IWAI dredger + SP-CSD from Service Provider). The estimated quantity of dredging required is 8.974 million CuM. The tender process is in progress.</p>

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			<p>Provision of LAD of 2.5 m and bottom channel width of 45 m on the Doriganj-Ghazipur stretch (178 kms) through Quantity based maintenance dredging contract (Mix & Match – IWAI dredger + SP-CSD from Service Provider). The estimated quantity of dredging required is 8.665 million CuM. The tender process is in progress.</p> <p>Provision of LAD of 2.2 m and bottom channel width of 45 m on the Ghazipur - Varanasi stretch (133 kms) through Performance based Assured Dredging Contract. The estimated quantity of dredging required is 7.120 million CuM. The observations made by the World Bank on the draft tender documents are being incorporated.</p> <p>Presently, no dredging is planned on the Kahalgaon-Sultanganj stretch (50 km) due to the presence of Dolphin Sanctuary.</p>
2.6	Bank Protection Works:	December, 2019	<ul style="list-style-type: none"> • Locations identified: Farakka Feeder Canal (9.438 km), Farakka to Haldia reaches (33.095 km) and river bend at Farakka (3.20 km). • Status: Geo-technical investigations of Farakka Feeder Canal and river bend at Farakka have been completed. Revised DPR incorporating the observations made by the World Bank is awaited from the Consultant.
2.7	River Bend Correction upstream of the Farakka Navigational Lock.	December, 2023.	<ul style="list-style-type: none"> • DPR submitted by the Engineering Consultants has been shared with the World Bank and the Farakka Barrage Project Authority. • Cost estimate and Tender documents under finalization.
2.8	Intermodal terminal at Kalughat.	November, 2019	<p>Land: Requisition for acquisition of 5.159 ha. of land filed with the District Administration, Saran on 29.12.2016. Mapping/verification of land has been completed and demand of Rs. 17.84 crore for 20 acres of land (which includes some additional land within the river) has been prepared and sent to DM by DCLR on 2.4.2018. Final demand for payment is awaited from the</p>

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			<p>District Administration. In the meantime, as per the request of the District Administration, IWAI submitted additional documents on 29.08.2018 to the District Administration.</p> <p><u>Civil construction:</u></p> <ul style="list-style-type: none"> • The DPR and tender document are under finalisation by the Engineering Consultant. • The Terminal is being planned to handle mostly container traffic.
2.9	Intermodal terminal at Ghazipur.	November, 2019	<p><u>Land:</u> Requisition for acquisition of 8.917 ha of land in village Dungarpur filed with the District Administration, Ghazipur on 31.03.2017.</p> <ul style="list-style-type: none"> • District Administration has finalised the purchase price @ Rs. 3.20 crore per hectare and based on the same, IWAI has disbursed Rs. 18.56 cr. to the land owners. • 5.103 ha of land has already been acquired and registered. Balance 3.813 ha of land is under acquisition. • The Foundation Stone for the Terminal was laid by the Hon'ble Minister for Shipping, Road Transport and Highways on 25th January, 2018. <p><u>Civil construction:</u> Tender cancelled due to change in scope of work. NOC received from the World Bank for revised tender documents.</p>
2.10	Construction of Ro-Ro Terminals	December, 2019	<p><u>Pairing & Locations:</u></p> <ul style="list-style-type: none"> • Rajmahal and Manikchak; • Samdaghat and Manihari; • Kahalgaon and Tintanga; • Hasanpur and Bakhtiyarpur; and • Buxar and Saraikota . <p><u>Civil construction:</u></p> <ul style="list-style-type: none"> • Draft DPRs for all the ten Ro-Ro Terminals have been submitted by the Engineering Consultant and are under finalization.

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			<ul style="list-style-type: none"> • Topographic survey completed at all the ten sites. • Geotechnical investigation done for Rajmahal Manikchak and Manihari Ro-Ro Terminal sites.
2.11	Integrated Vessel Repair & Maintenance Complexes.	March, 2020	<p><u>Locations:</u> Sahibganj and Gaighat (Patna).</p> <p><u>Status:</u></p> <p>Draft feasibility report and draft project report for the complexes at Sahibganj and Gaighat have been submitted by the Engineering Consultants and are under review.</p> <p><u>Land:</u> 56.22 acres of land adjoining the site of the multimodal terminal and Ro-Ro terminal at Sahibganj were identified for the Vessel Repair & Maintenance Complex. Requisition filed by IWAI on 21.11.2017. Acquisition process is pending with the District Administration.</p>
2.12	Procurement of 2 Nos. Self-Propelled Cutter Suction Dredgers		The Tender was issued on 14.07.2018. Pre-bid meeting held on 24.07.18 and the technical bid opening was scheduled to be held on 27.08.2018. However, due to floods in Kerala, on the request of the prospective bidders, bid opening date has been postponed to 10.09.2018.
2.13	Operation & Maintenance of the Varanasi multimodal terminal.		RFQ for the Operation & Maintenance of the Varanasi multimodal terminal was published on 08.06.2018 and the pre-bid meeting was held on 22.06.2018. The estimated cost is ₹13.44 crores.
2.14	Leasing of Vessels		Terms of Reference was approved by the World Bank on 28.08.18 and the NIT issued on 30.08.18.
2.15	Development of NINI as Centre for Excellence		EoI for Consultancy Services for development of the National Inland Navigation Institute (NINI) at Patna was released on 11.08.19. The opening of the EoI is scheduled on 10.09.18. The estimated cost is ₹88.84 lakhs.
