

Clarifications to Pre-bid Queries in respect of tender for "Civil and Hydro- Mechanical (HM) works, including associated ancillary and enabling works, necessary for making the undersluices of the Concrete Dam of Salal Power Station (UT of Jammu & Kashmir, India) fully functional and operational"					
S. No.	Volume	Clause No.	Description	Request for Change & Clarification	Reply
Volume 0 : NIT & ITB					
1	Volume-0	NIT, Cl. 4.1.1	<p>General Experience for Civil Works:</p> <p>"The bidder (Sole Contractor or Lead Partner of the JV) should have General Experience as Principal Contractor or Partner of JV or Sub-contractor approved by the employer of substantially completed dredging works or related similar works during last twelve (12) years of following value:</p> <ol style="list-style-type: none"> 1. One similar work costing not less than INR 413 Crores or USD 45 Million, OR 2. Two similar works each costing not less than INR 258 Crores or USD 28 Million, OR 3. Three similar works each costing not less than INR 207 Crores or USD 22 Million" 	<p>To the best of our knowledge in the past 12 years, the value of dredging contracts awarded to private players is much less than the value of orders requested as per NIT Clause 4.1.1. A list of major dredging contracts awarded, as obtained from open source, is enclosed. The Dredging at Salal Dam is a specialised dredging work with huge quantum and hence the value is higher. However keeping the General Experience as so high will limit the participation in the bid. Thereby it is requested that the General Experience may be modified as having experience of any one substantially completed dredging work of Rs 200 Crores.</p>	Please refer corrigendum No. 2
2	Volume-0	Section -0 NIT Clause 4.1.2.1 (b)	<p>"b) Completion of sediment dredging depth of at least 40m</p> <p>Note: The bidder can propose a specialized agency to fulfil the criteria mentioned under 4.1.2.1(b) through which the bidder shall execute these works."</p> <p>"10. For specialized agencies proposed for specific experience criteria under 4.1.2.1(b) and 4.1.4, the bidder should provide copy of experience certificate for satisfactory performance from the Owner."</p>	<p>The depth of dredging at Salal Dam is very high and it is difficult to find a specialized agency having requisite experience of high depth dredging. Also we would like to emphasise that the deep dredging is done with the help of automatic dredger specially made for such deep dredging works; and hence it becomes more important to have support of the manufacturer of Deep Dredger for successful execution of the work. Thereby for wider participation it is requested to allow the specialized agency having experience of dredging/desiltation and having authorization from the Deep Dredger Machine manufacturer to participate.</p>	Please refer corrigendum No. 2
3	Volume-0	Sec-0, NIT, Cl. 4.1.1	<p>General Experience for Civil Works</p> <p>The bidder (Sole Contractor or Lead Partner of the JV) should have General Experience as Principal Contractor or Partner of JV or Sub-contractor approved by the employer of substantially completed dredging works or related similar works during last twelve (12) years of following value:</p> <ol style="list-style-type: none"> 1. One similar work costing not less than INR 413 Crores or USD 45 Million, OR 2. Two similar works each costing not less than INR 258 Crores or USD 28 Million, OR 3. Three similar works each costing not less than INR 207 Crores or USD 22 Million <p>The similar nature of work may be considered as dredging operation in Inland Waterways, Ports/Harbour, river, lake, canal with the assistance of suitable dredgers.</p> <p>The reference date for considering the period of preceding twelve (12) years for general construction experience shall be last day of the month previous to the one in which Bid is invited.</p> <p>For such works with payment received in other than INR shall be converted in INR by adopting the Exchange rate between that Currency and INR as prevailing on the completion date mentioned in the completion certificate and if month of completion is mentioned in the Completion Certificate, then the exchange rate of last working day of the Month shall be taken. The value of work in INR or converted into INR as above from the currency other than INR shall be enhanced by 7% simple rate per annum up to the date of Bid Opening.</p>	<p>General Experience for Civil Works (Revised)</p> <p>The bidder (Sole Contractor or Lead Partner of the JV) should have General Experience as Principal Contractor or Partner of JV or Sub-contractor approved by the Employer of substantially completed dredging works or similar hydraulic works during the last twelve (12) years meeting any one of the following criteria:</p> <ol style="list-style-type: none"> 1. One similar work costing not less than INR 60 Crores, OR 2. Two similar works each costing not less than INR 40 Crores, OR 3. Three similar works each costing not less than INR 30 Crores. <p>For the purpose of this clause, "similar work" shall mean dredging operations executed in Ports, Harbours, Inland Waterways, Rivers, Reservoirs, Lakes, or Canals using suitable hydraulic and/or mechanical dredgers.</p> <p>The reference date for considering the period of preceding twelve (12) years for general construction experience shall be the last day of the month previous to the one in which the Bid is invited.</p> <p>For works executed in currency other than INR, the value shall be converted into INR by adopting the exchange rate prevailing on the completion date mentioned in the completion certificate. The value so arrived at shall be enhanced by 7% simple rate per annum up to the date of Bid Opening.</p> <p>Additionally, the bidder should have a minimum of fifteen (15) years of experience in dredging operations.</p>	Please refer corrigendum No. 2
4	Volume-0	Sec-0, NIT, Cl. 4.1.1	<p>General Experience for Civil Works</p> <p>The bidder (Sole Contractor or Lead Partner of the JV) should have General Experience as Principal Contractor or Partner of JV or Sub-contractor approved by the employer of substantially completed dredging works or related similar works during last twelve (12) years of following value:</p> <ol style="list-style-type: none"> 1. One similar work costing not less than INR 413 Crores or USD 45 Million, OR 2. Two similar works each costing not less than INR 258 Crores or USD 28 Million, OR 3. Three similar works each costing not less than INR 207 Crores or USD 22 Million <p>The similar nature of work may be considered as dredging operation in Inland Waterways, Ports/Harbour, river, lake, canal with the assistance of suitable dredgers.</p>	<p>1. Clause 4.1.1 – General Experience for Civil Works</p> <p>Clause 4.1.1 defines similar works as dredging operations in inland waterways, ports/harbours, rivers, lakes, or canals "with the assistance of suitable dredgers."</p> <p>In this regard, we respectfully submit that Clause 4.1.1 pertains to general experience of dredging works, whereas Clause 4.1.2 already specifies detailed technical experience requirements for dredging works, including sediment dredging at depths of up to 40 m.</p> <p>Since the specific technical capability for deep dredging is already addressed under Clause 4.1.2, inclusion of the phrase "with the assistance of suitable dredgers" in the general experience clause may unnecessarily restrict the interpretation of eligible similar works.</p> <p>We therefore request that the phrase: "with the assistance of suitable dredgers" may kindly be removed from Clause 4.1.1, so that the clause continues to reflect general experience in dredging or similar hydraulic works, while the technical capability requirements remain governed by Clause 4.1.2.</p> <p>Further, we request clarification that the value requirements under Clause 4.1.1 (INR 413 Cr / 258 Cr / 207 Cr) refer to the total project value of works involving dredging activities, and not necessarily the standalone value of dredging operations within the project.</p>	Please refer corrigendum No. 2

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5	Volume-0	Sec-0, NIT, Cl. 4.1.2	<p>Specific Experience for Civil Works Successful experience as Sole Contractor or Partner of the JV or Sub-contractor approved by the employer for executing Civil works in ongoing / completed project during last 20 years reckoned from the last day of the month previous to the one in which Tender is invited) for the following: 4.1.2.1 Dredging Work a) Completion of Dredging work in one reservoir: at least 1250000 cum AND b) Completion of sediment dredging depth of at least 40m</p> <p>Note: The bidder can propose a specialized agency to fulfil the criteria mentioned under 4.1.2.1(b) through which the bidder shall execute these works.</p>	<p>Specific Experience for Civil Works Successful experience as Sole Contractor or Partner of the JV or Sub-contractor approved by the employer for executing Civil works in ongoing / completed project during last 20 years reckoned from the last day of the month previous to the one in which Tender is invited) for the following: 4.1.2.1 Dredging Work a) Completion of dredging work of at least 1,250,000 cubic meters (12.5 lakh cubic meters) in any one project executed in Port / Harbour / River / Reservoir / Lake / Canal using suitable dredgers. AND b) The bidder shall demonstrate technical capability to execute deep reservoir dredging through: Ownership or confirmed availability of dredger(s) capable of operating at the required project depth supported by OEM specifications, ladder length certification, and pump capacity details; Submission of detailed methodology for deep sediment dredging including hydrographic survey plan, slope stability management, sediment transport and disposal methodology, and risk mitigation measures; Where required, association with specialized agency for underwater inspection, diving, or ROV operations. Past execution at identical project depth shall not be mandatory, provided adequate technical capability, engineering methodology, and equipment configuration are demonstrated to the satisfaction of the Employer. Justification for Amendment (Optional – If Authority Asks) The above proposed modifications aim to: -Ensure wider participation of experienced Indian dredging contractors; -Reflect practical industry execution patterns in Ports and Inland Waterways; -Maintain technical safeguards through methodology-based qualification rather than restrictive identical depth precedent; -Enhance competitive bidding while preserving project safety and engineering integrity.</p>	Please refer corrigendum No. 2
6	Volume-0	Sec-0, NIT, Cl. 4.1.2	<p>Specific Experience for Civil Works Successful experience as Sole Contractor or Partner of the JV or Sub-contractor approved by the employer for executing Civil works in ongoing / completed project during last 20 years reckoned from the last day of the month previous to the one in which Tender is invited) for the following: 4.1.2.1 Dredging Work a) Completion of Dredging work in one reservoir: at least 1250000 cum AND b) Completion of sediment dredging depth of at least 40m</p> <p>Note: The bidder can propose a specialized agency to fulfil the criteria mentioned under 4.1.2.1(b) through which the bidder shall execute these works.</p>	<p>2. Clause 4.1.2.1 – Specific Experience for Civil Works (Dredging Work) The clause presently requires: • Completion of dredging work in one reservoir of at least 1,250,000 cum, and • Completion of sediment dredging depth of at least 40 m.</p> <p>a) Replacement of “one reservoir” with “one project” Dredging and sediment removal works of are also executed by removing sediment and debris from the riverbed for maintaining appropriate water depth and quality which is essential when clean water is required to be pumped back to upper reservoir. However, dredging may or may not be in the Reservoir. For example, in Tehri PSP, river dredging was executed from the spillway to TRT outlet. Limiting the experience specifically to a reservoir may unnecessarily restrict otherwise relevant experience. We therefore request that the requirement be revised as: “Completion of dredging work in one project.”</p> <p>b) Revision of dredging quantity requirement We request that the requirement of 1,250,000 cum dredging quantity in one project be revised to: 400,000 cum in one project to ensure wider participation of experienced contractors while maintaining adequate technical capability.</p> <p>c) Specialized agency for dredging works Alternatively, since dredging is a highly specialised activity typically executed through specialised contractors, both requirements under Clause 4.1.2.1(a) and 4.1.2.1(b) may also be permitted to be fulfilled through a specialised dredging agency proposed by the bidder.</p>	Please refer corrigendum No. 2
7	Volume-0	Sec-0, NIT, Cl. 4.1.2, Pg. no. 12	Completed works related to rehabilitation of concrete dams, but not be limited to, retrofitting works, cutting and removal of existing Reinforced Cement Concrete & Plain Cement Concrete, repair / restoration, and/or strengthening of concrete dam structures or similar major hydraulic structures.	Completed works related to Construction of Concrete Dams OR rehabilitation of concrete dams, but not be limited to, retrofitting works, cutting and removal of existing Reinforced Cement Concrete & Plain Cement Concrete, repair / restoration, and/or strengthening of concrete dam structures or similar major hydraulic structures.	Please refer corrigendum No. 2
Volume-6: Data sheets for Civil works and HM works					
8	Volume-6	Annexure-I, DATA SHEET – 3C (List of Equipment for Dredging of Salal Dam, J&K), Sl. No. 1	Submersible Dredging Pump including Floating Arrangement etc.	To Optimize the Head, kW, Piping, Power System, etc., During Detailed Engineering the Bidder/s maybe allowed to provide an Alternative System with Different Unit Flow Rate but Same Total Cumulative Flow Rate.	Bidder may provide any alternative system with different unit flow rate to execute the work successfully, subject to complete the entire quantity of dredging well within the completion Schedule as stipulated in tender document without any additional cost.
9				The Minimum Head of Pump should be specified as it has a direct bearing on the kW & Costing.	Pumping Head of Dredging Pumps depends upon the length of pipe line as well as difference of elevation of suction and discharge point. Bidder may visit the site to decide suitable head as per requirement of proposed system.
10				As the Nature of Silt is not exactly known; therefore the Wear, Tear & Breakage of Cutters, Pump Impellers, Pipes, Valves, etc. is an Unknown Wild Card. Hence, the Estimated Rates of O&M of Dredging Equipment needs to be Reviewed & Suitably Raised.	Bidder may visit the site to ascertain the condition of silt and plan O&M cost of the system.
11				Considering nearly 90m Static Head & Substantial Frictional Head Losses in nearly 1 km Piping; therefore Minimum Head of Submersible Dredging Pumps needs to Mandated as it has a Huge & Cascading Impact on Capital Costs.	Bidder may provide any alternative system with different unit flow rate to execute the work successfully and visit the site to ascertain the length of power cable, pipes and other accessories. Hence, Bidder may install requisite quantity of Dredging pumps along with all accessories, but bidder may ensure that entire dredging work must be completed well within completion schedule as stipulated in the bid document without any additional financial implication to NHPC.
12				Quantity of Dredging Pumps Please confirm Bidder may Optimize the Flow/Pump. Since Time Span of Silt Removal is Short, to Mitigate the Downtime of Maintaining the Pumps (say to Replace Worn Impeller/Runner/Hydraulic parts, etc.); atleast 33% Standby is required.	
13				Minimum Lengths of Power Cables may be considered as 600mtr./ Pump.	

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14				Minimum Cumulative Length of Piping (Flexible Pipe Hoses (upto River Bank) + MS Pipes (on River Banks)) may be considered as 1000mtr./ Pump.	
15				Since Pumps will Start Working from approx. 10m depth & go upto 90m later on; the Head of/on Pump will Vary Drastically. Hence, Variable Speed Drive (VFD) is recommended for Motor Pumps.	
16	Volume-6	Data Sheet 3C	Submersible Dredging Pump (600 cum/hr) including floating arrangement – 8 No.s	The Equipment required for the purpose of Deep Dredging at Salal Dam is a specialized Dredger which not only consist of Submersible Dredge Pump and floating arrangement, but a lot more equipment, such a command and control system, propulsion and hoisting system, Hydraulic Power packs and Electrical Power Unit. If the work is awarded to us then we shall deploy the Dredgers as per site requirement in sufficient quantity.	Bidder may provide all system along with all related accessories to meet all cumulative dredging quantity within stipulated time frame.
General					
17			Power Requirement	Power Requirement for Dredging Pumps (Approx. 4MW). Please confirm: - Who shall Supply Power? - Power is In what Form? Whether DG or Electrical? - If Electrical, What is the Voltage level? - Whether Power Supply is Free or on Chargeable basis?	At present, the power supply available at the dam top is via 2 alternate 11 KV / 415 V, 500KVA capacity transformers through which load at dam is being fed. The power requirement of approx. 4 MW is not available at Dam top. Hence, arrangements for the power requirement are to be made by the contractor. A 10 MVA transformer is being installed in the captive bay of Salal Power Station switchyard, through which the auxiliary consumption needs of the power station are met. As an alternate, a separate dedicated line can be erected from captive bay up to dam top along with suitable capacity transformers, circuit breakers, panels etc which will be in the scope of the contractor subject to approval by NHPC as per requisite guidelines.
18			General - Estimate	As discussed during meeting on 11.03.2026; We understand that Estimates are based on Sand Mining at Very Shallow Depth. Please reconsider the Estimates due to Deeper Depth & Time Bound activities involved.	Dredging upto 80m depth has been considered for preparing estimate.