



Project: NTPC Patratu STPS (3 X 800 MW)

**CORRIGENDUM
NO. 2 dt.
05.05.2022**

**System Design, Engineering,
Manufacturing, Supply, E&C, PG Test etc.
of Conveyor Package including LHP & GHP
3X800MW PVUNL, Jharkhand State**

**Tender Ref. No.
Enquiry No.
77/22/6007/SBD Dated
14-04-2022**

Please note the following point

Sl. No.	Event Description	TO NOTE
1	Techno-commercial	Corrigendum -2 issued for the following: Due date for bid submission - extension upto 16th May, 2022
2	All other terms & conditions	Remain unchanged.

Note:

Also, please note that the full tender document can be downloaded from the website
<https://eprocurebhel.co.in/nicgep/app>

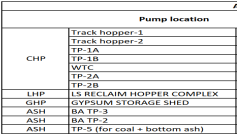

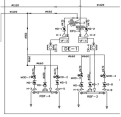

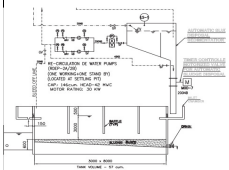
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All other terms and conditions remain the same as per the original enquiry and it's subsequent amendment / addendum / corrigendum /clarification.

Any further addendum / corrigendum/ clarification/ notice of due date extension such issued shall be part of the bidding documents and this will be available at the web site from where the original documents have been received / downloaded by the bidder.

Hence bidders are requested to visit the web site on regular basis.

Clarifications for Tender : 77/22/6007/SBD - Conveyor Package

Tender		Technical Query / Deviation List		
Sr. No	Clause No of Tender	Tender Specification	Bidder's Query	BHEL reply
A) Mechanical				
1	1) IS-1-17-2005/ CONV. PKG/RE, Clause 1, Page 4 of 54	Bidder to note that based on earlier mechanical vendor inputs, civil & structural drawings are released and site work is under progress. So bidder to quote for this tender ensuring that there is no change in civil input, i.e. bidder to select his equipment/ items/ systems in such a manner that it does not have any implication on already released civil & structural drawings. An undertaking for the same has to be furnished by bidder in the form of a letter signed & sealed by authorized signatory, along with this tender.	While selecting the equipments as per the technical specifications, in a scenario if there is a need to change the existing building drawings, bidder shall be allowed to do so. Further, any change in structural and civil work arising due to the same is not part of bidder's scope. Bidder shall not provide the desired undertaking.	Tender condition is amly clear . Bidder to follow tender specification
2	IS-1-17-2005/ CONV. PKG/RE, Clause 14, Page 18 of 54	Bidder shall place the order for ELEVATORS and COAL/LIME SAMPLING UNITS on approved subvendors within 30 days of LOI after taking sub-QR clearance. Bidder to ensure that elevators and coal / limestone sampling systems being supplied by bidder shall have no implication on civil & structural drawings which are already released for construction by BHEL. Any changes if required at site in civil & structural portion because of bidder's selected equipment will have to be taken care by bidder, by engaging his own civil & structural agency, without any commercial implication to BHEL.	While selecting the equipments as per the technical specifications, in a scenario if there is a need to change the existing building drawings, bidder shall be allowed to do so. Further, any change in structural and civil work arising due to the same is not part of bidder's scope.	Tender condition is amly clear . Bidder to follow tender specification
3	IS-1-17-2005/ CONV. PKG/RE, Clause 12, Page 19 of 54	Bidder to follow the already approved drawings of conveyors and TP's/ buildings enclosed, and no changes will be allowed in already released civil & structural drawings.	Bidder assumes that the current general layout drawings of the said buildings for complying the layout requirements given in the clause 18. However in case, the said requirement have been compromised while finalizing the current buildings, then the bidder shall be allowed to change the arrangement and details in respective buildings. Any structural and civil work arising due to the same is not part of bidder's scope. Kindly confirm the same.	Tender condition is amly clear . Bidder to follow tender specification
4	IS-1-17-2005/ CONV. PKG/RE, Clause 12, Page 18 of 54	First Fill of Lubricants, hydraulic oil & any other oils etc. up to COD including top up requirements at the time of issuance of PAC/declaration of COD shall be in bidder's scope and deemed to have been included in the total bid price.	Bidder understands that First Fill of Lubricants, hydraulic oil & any other oils etc. required for bidder supplied items, only to be considered by bidder. However, any oils/lubricants up to COD including top up requirement are being excluded from bidder's scope. Kindly confirm bidder's understanding.	Bidder to refer IS-1-17-2005/ CONV. PKG/RE, Clause 28, Sheet 20 of 54 and consider till final handing over to end customer
5	IS-1-17-2005/ CONV. PKG/RE, Clause 18, Page 18/19 of 54	During detail engg. the layout and general arrangement drawings of buildings namely Transfer Points, Crusher House, storage shed etc. shall be prepared considering the following parameters: a. Working space around the equipment shall be approx. 1000 mm as a good engineering practice. b. Generally, 1200 mm passage all around inside periphery of the Transfer points/ Crusher House (except at Conveyor entry/ exit) shall be provided. c. Building height shall take care of the following parameters: (i) In case of handling of the equipment one over the other, the clearance between moving & stationary equipment shall be 500 mm (minimum). (ii) In case of handling of the equipment on the side of the other equipment, ground clearance of moving equipment shall be 2500 mm (minimum). However, bidder to follow the already approved drawings of conveyors and TP's/ buildings enclosed, and no changes will be allowed in already released civil & structural drawings.	Bidder assumes that the current general layout drawings of the said buildings for complying the layout requirements NIT specifications. However in case, the said requirement have been compromised while finalizing the current buildings, then the bidder shall be allowed to change the arrangement and details in respective buildings. Any structural and civil work arising due to the same is not part of bidder's scope.	Tender condition is amly clear . Bidder to follow tender specification
6	IS-1-17-2005/ CONV. PKG/RE, Clause 88, Page 30 of 54	Breaking of wall/ brick cladding and re-doing it for laying conveyor belt for underground tunnel portion shall also be in bidder's scope	The entire civil scope is excluded from bidder scope of supply. Hence, bidder propose to exclude the breaking of wall/ brick cladding and re-doing it for laying conveyor belt for underground tunnel portion from his scope. Kindly confirm.	Bidder's proposal is not acceptable . Bidder to refer GA drawings already shared along with this tender, and considering the provisions shown in drawings, bidder to check & quote accordingly.
B) Utilities				
7	SI.No. 52	Main conveyor package (CHP, Ash-conveyor system, LHP,AHP SYSTEM) Complete Travelling Tripper with telescopic chute & Dust collector arrangement ,	Technically not feasible to provide dust collector at travelling tripper zone, hence bidder is not envisaged dust collector system at travelling tripper. If client has proven / executed dust collector over the travelling tripper, then bidder request to share the drawing & vendor inputs. bidder will follow the same.	It is tripper mounted dust collection system which is technically feasible, bidder to kindly consider accordingly.
8	SI.No.89	Bidder shall provide Sump pumps along with level switches & piping at all locations, wherever natural drainage is not possible and its discharge shall be led to waste water service sump	Client to furnish the co-ordinate and location of the waste water service sump.	Bidder to refer Annexure-27, further details will be finalized after award of order during detail engg.
9	SI.No. 97	Main conveyor package (CHP, Ash-conveyor system, LHP,AHP SYSTEM) Bidder shall supply, erect & commission equipment handling systems (such as chain pulleys, manual hoist, electric hoist, EOT cranes etc.) as per system requirement in the entire coal, limestone, gypsum & ASH conveyor system (Track Hopper complex, Wagon Tippler complex, Crusher house, other buildings, pent houses, complexes, reclaim Hopper, bunker floors, TP's, dozer shed, pump houses, work shop building, Coal settling pump area, AC & ventilation rooms, etc.) Bidder shall provide Sump pumps along with level switches & piping at all locations	Bidder has not envisaged supply, erection & commission of pump houses, coal settling pump area and ventilation rooms in all areas mentioned in NIT specification.	Not acceptable. Bidder to consider equipment handling systems in all areas mentioned in NIT specification.
10	SI.No.89		Bidder has envisaged sump pit and sump pump as per annexure -27, schedule of sump pumps only. Please confirm.	Confirmed.
11	Schematic diagram of Wet type Dust extraction system for crusher house.	As per Annexure-20, Wet type DE scheme for coal crusher house. 	As per coal flow diagram, either H-3 or H-5 for RBF-4 conveyor and H-6 or H-8 for RBF-3 conveyor, any one suction hood will work at a time. Capacity of Scrubber & fan shall be reduce.	Capacity of Scrubber & fan is checked once again and found in order. Reduction in capacity is not allowed. 1 suction hood H-3/ H-5 and another suction hood H-6/ H-8 will work at a time. Bidder to quote accordingly.
12	Schematic diagram of Wet type Dust extraction system for crusher house.	As per Annexure-20, Wet type DE scheme for coal crusher house. 		
13	Schematic diagram of Wet type Dust extraction system for crusher house.		Client has informed furnished capacity are minimum, bidder has taken deviation on this note for all the system & equipment supplied (inclusive of Wet type DE system) by us. Bidder will design and supply the Equipments as per system requirement and NTPC contract document. Client to confirm.	Bidder's deviation is not acceptable. Bidder's query is general in nature. For wet type DE system, it is already clarified above. For other equipment, bidder to specifically raise the query, if any. However, bidder to meet all the requirements mentioned in BHEL technical enquiry specification & its enclosures.
14	Schematic diagram of Wet type Dust extraction system for crusher house.		Based on our experience & executed projects, Client has underized the settling tank capacity. During detail engineering settling tank area & tank capacity will increase as per the system requirement. If client has proven / approved the calculation of settling tank capacity (57 cum), then, bidder requests to share the settling tank size calculation, same will be followed. Bidder has not excluded Civil & structural design, supply and construction of slurry settling pond.	Basis of this query is not clear, as this has also been designed by NTPC approved vendor. Tank size calculation will be shared to successful bidder after award of order.
15	Schematic diagram of Wet type Dust extraction system for crusher house.	Over flow water from slurry settling tank	Slurry water (Over flow of slurry water) from settling tank will be drained to nearest peripheral drains.	Noted

16	Schematic diagram of Wet type Dust extraction system for crusher house.	Thick slurry disposal arrangement	Tender drawing is silent about, slurry removal arrangement for settling tank. As per our past experience, Hence bidder has presumed automatic grab bucket arrangement for lifting of thick slurry inside the ground based settlement pit. Thick slurry will be disposed to trucks (by client) in regular intervals by manual intervention. Bidder has not excluded Civil & structural design, supply and construction of Hoist supports and ladders. <i>Please check & confirm.</i>	Tender scheme is amply clear. Bidder to follow tender specification
17	Schematic diagram of Wet type Dust extraction system for crusher house.	Recirculation of DE pumps	Bidder has presumed "DE recirculation pumps (4nos)" shall be covered under RCC pump house, same shall be client scope. Please confirm.	No, DE re-circulation pumps shall be placed beside DE system near coal crusher house, open to atmosphere. Bidder to consider pumps accordingly.
18	Schematic diagram of Wet type Dust extraction system for crusher house.	Make up water pumps	I) Bidder has presumed "Make water pumps for DE system (2nos)" are located in main pump house & water tank, necessary space has been taken care in the pump house. II) For bid clarity, our scope starts from outlet of water tank (for make up water system for DE system).	Bidder to refer Annexure-20, these 2 make up water pumps are already shown inside Pump house (near LS UT-3). Necessary space is already considered in pump house for these 2 pumps. Complete make up water system is in bidder's scope. Bidder to refer clause 113 in sheet 33 of 54 of BHEL technical enquiry specification. Bidder's scope starts at water tank outlet (for input water feeding to make up water pumps) including puddle range on RCC tank.
19	K. Exclusions , SI No. 7	Design, supply, transportation, loading/unloading at site, receipt, storage, security, transportation to erection location and E&C of coal run off pond/pit along with pumps, valves, pipes etc is excluded from bidder's scope. Civil works related to coal run off pond is excluded from bidder's scope. However, hoist for decant pump house shall be in bidder's scope	Bidder to furnish the hoist capacity & travel length, lift. Other pump houses bidder has not envisaged any hoist. Please confirm.	Hoists in all areas including pump houses shall be in bidder's scope, as already clarified above.
20	General	Coal settling pond	Bidder has not considered coal settling pond design & settling pond pumps and distribution. Please confirm.	Bidder to refer K. Exclusions , SI No. 7
21	General	Water system	Bidder has not envisaged Dust suppression system, pre-wetting of wagons, Service water system, potable water system, service air system, Bottom door opening for wagons & cooling water (if required), Make up water from main water source to pump houses for CHPLHP/GHP/AHP system. Please confirm.	Confirmed. *However bidder to select his equipment suitably without any requirement of cooling water.
22	General	Fire fighting system	For bid clarity, bidder presumes fire fighting system, fire extinguishers, fire suppression system & FDA system are excluded. Please confirm.	Confirmed.
23	General	Sump pumps slurry water disposal	For bid clarity, all sump pumps slurry water shall be discharged to the peripheral drains (max 50m from the building). Bidder does not have clarity regarding 300 Man shifts O&M spread out in how many months.	Shall be finalized during detail engg
24	O&M	Operation & Maintenance of Conveyor Package	We propose 300 Man shifts O&M round the clock and continuous shifts.	Tender condition prevails.
C) Electrical and Instrumentation				
24	Annexure-2-Electrical scope of Conveyor Package (Page No.5 of 37)	4. Bidder Visit to BHEL Bangalore for Engineering Discussion:	Time limit indicated is Noted, however if the work is not completed within stipulated time then, Client to accept additional claim from Bidder.	No extra claim is acceptable for engineering discussions. Based on clarity of engineering info provided by bidder, visit for engineering discussion shall be required.
25	Annexure-2-Electrical scope of Conveyor Package (Page No.5 of 37)	Bidder to ensure submission of hard copies as per NTPC's requirement and same to be sent to BHEL site office. No of hard copies as decided by BHEL/Customer to be provided to BHEL Site office for Erection, Commissioning and Maintenance activities.	Only Final Approved Drawings will be submitted to Site.All correspondence till Drawing Approval will be in "pdf" for only.	Ok.
26	Annexure-2-Electrical scope of Conveyor Package (Page No.6 of 37)	v. Approval of drawings shall not relieve the bidder of his responsibility in terms of the contract.	In this case maximum drawings are already Approved, hence Approver-is also equally responsible, hence this clause to be discussed separately.	Bidder is fully responsible for the performance of the equipment as per project requirement. Wherever drawings already approved, same to be reviewed by bidder for any changes (if required) as per specification. Bidder can submit fresh drawings for already approved drawings as per specification if required.
27	Annexure-2-Electrical scope of Conveyor Package (Page No11 of 37) Sr.No. 3 & 4.	HT Swgr & LT Swgr. -VENDOR to furnish (leader list & scheme requirement)	Scheme will be as per NTPC standard requirement & as accepted by NTPC in any other earlier packages.	Ok. If any other requirement as per system same shall be intimated by bidder during detail engineering.
28	Annexure-2-Electrical scope of Conveyor Package (Page No11 of 37) Sr.No. 7	VENDOR shall provide cable schedule,cable sizing between vendor supplied equipments. Cable Laying, Termination , dressing, clamping, tagging, testing & Commissioning till handover to customer is in vendor scope	Cable schedule & Cable sizing will be provided where both equipments are supplied by Bidder. All other are excluded by Bidder.	ok
29	Annexure-2-Electrical scope of Conveyor Package (Page No11 of 37) Sr.No.16	1. Bidder shall depute commissioning engineer at control room continuously from time of intimation by BHEL till completion of line tuning of Logic in DCS. 2. Also bidder to depute operator for Operation of System from DCS HMI till handing over of the system.	Pl. Clearly / Specify, how many days to be considered.	Bidder shall inspect DCS logic / Indications / HMI screens , Operation at manufacturing premises itself. Based on deviation from Engineering Inputs , the requirement of bidder site engineer for line tuning of logic may vary. The number of man-days is dependent on effective DCS input document by bidder.
30	Annexure-2-Electrical scope of Conveyor Package (Page No 14 of 37) Sr.No.27	For items mentioned in SI No.7.8 & 9, terminations including supply of accessories is in vendor scope only. VENDOR to provide termination details for all control/instrumentation cables including BHEL cables . Format shall be as decided by BHEL during detailed engineering	Cable schedule & Cable sizing will be provided where both equipments are supplied by Bidder. All other are excluded by Bidder.	Follow specification.
31	Annexure-2-Electrical scope of Conveyor Package (Page No 14 of 37) Sr.No.32	Coal sampling unit shall be controlled through stand-alone PLC System(s) and this stand-alone PLC system(s) will be in the vendor's scope.	NTPC/BHEL Contract Specifications of PLC system, will not be applicable for stand alone PLC's. Example: CSU stand alone PLC will be as per Manufacturer's standard. Pl. confirm.	Follow specification.
32	Annexure-15-Drg Submission Schedule		Several Vendor drawings are in CAT-II, CAT-I & some are Pending for submission. Pl. clarify the way forward to Bidder. Pl. clarify, Bidder to Order these equipments & submit vendor Drg? On what basis these equipments to be ordered? Pl. clarify.	Bidder's query is not clear. Bidder to refer clause 2 in sheet 4 of 54. It is bidder's responsibility to complete the engg. of this project, i.e. fresh submissions to be carried out by bidder as per normal procedure and for all other drawings, final approval has to be obtained by bidder (i.e. CAT-I/ CAT-IV approvals). Bidder to also refer the note mentioned in Annexure-15.