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(ಭಾರತ ಸರ್ಕಾರದ ಉದ್ಯಮ)

भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

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(A Government of India Undertaking)

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P.B.No.1249, Prof. CNR Rao Circle, IISc Post,

Malleswaram, Bengaluru-560 012. India

Our Ref: 77/24/6122/VVN dt: 23.10.2024

Dt: 28-11-2024

Subject: Regarding extension of due date from 30.11.2024 to **20.12.2024** for
Enq.No: 77/24/6122/VVN.

With reference to the above enquiry for supplying Stacker reclaimers Package for
NLC, 3x800 MW Talabira TPS, we are extending the due date from 30.11.2024 to
20.12.2024

Thanking You,

Yours faithfully,

For BHARAT HEAVY ELECTRICALS LTD

(V V N S N Murthy /Manager, MM)

पंजीकृत कार्यालय बीएचईल हाउस, सिरि फोर्ट, नई दिल्ली - 110049

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Stacker cum Reclaimer Package for Talabira Thermal Power station (3x800 MW)
BHEL Tender ref. No. 77/24/6122/VVN

Pre bid clarifications 1

S. No.	Tender Documents / Volume	Cl. No.	Page no.	Tender Description	vendor Clarification	BHEL Reply
MECHANICAL						
1	Technical Enquiry Specification for Reversible Stacker cum Reclaimer Package	Pt. 11	9 of 36	Belt for boom conveyor and intermediate conveyor shall be supplied and erected by bidder only. But supply and erection of belt for yard conveyors is excluded from bidder's scope.	Belt for boom conveyor, intermediate conveyor and cross conveyor (belt feeder) is considered in bidders scope. Belt for yard conveyor along with tripper is in BHEL scope.	Noted, only belt for Yard conveyor is in BHEL's other vendor's scope.
2	Technical Enquiry Specification for Reversible Stacker cum Reclaimer Package	-	8 of 36 & 20 of 36	-	Please confirm our understanding regarding scope for following points : i) Supply of rail and rail fixing hardware - Bidder scope ii) Rail fixing, alignment & grouting - BHEL civil scope iii) Rail supervision - Bidder civil scope iv) Supply and erection of counterweight - Bidder scope v) Supply of grouting cement except for rail - Bidder Scope vi) Grouting for other mechanical equipment and structure except rail - Bidder civil scope	Technical specifications are amply clear regarding scope demarcation, bidder to follow the same.
3	Technical Enquiry Specification for Reversible Stacker cum Reclaimer Package & STACKER-CUM-RECLAIMER (BUCKET WHEEL TYPE) DATA SHEET – DS-19	Pt. 15 & STRUCTURAL DESIGN DATA	11 of 36 & 2 of 6	Maximum wheel load permissible with impact for Stacker cum Reclaimer Machine shall be 270 KN. & Maximum wheel load with permissible impact : By Contractor.	We recommend to consider the maximum permissible wheel load to be 300 kN. Pl. confirm.	Bidder to follow the technical specifications.
4	Technical Enquiry Specification for Reversible Stacker cum Reclaimer Package	Pt. 21	11 of 36	Bidder shall validate the mechanical and structural design of Stacker cum Reclaimer by Finite Element Analysis method to demonstrate that the stresses are within allowable limits. The same shall be vetted by reputed institutions like IITs/IISc etc./International consultant before review of NLC/ BHEL.	Our supplied machines are working efficiently and we have carried out inhouse design of the same. Being proprietary item , we propose to eliminate the clause of vetting of FEA by BHEL/ third party institutions/ consultants. If you still insist for review of FEA analysis then it will be explained to the client at bidders office during drawing approval, if necessary.	Bidder to follow the technical specifications.
5	Technical Enquiry Specification for Reversible Stacker cum Reclaimer Package	Pt. 17	11 of 36	Complete detail engineering drawings, calculations, selection of components etc. shall be reviewed & subject to approval of BHEL/Customer/Customer's Consultant during detail engineering.	Detail engineering drawings are our proprietary items hence we are unable to submit those drawings for review/approval.	Bidder to follow the technical specifications.

6	Technical Enquiry Specification for Reversible Stacker cum Reclaimer Package & STACKER-CUM-RECLAIMER (BUCKET WHEEL TYPE) DATA SHEET – DS-19	Pt. 8 & STRUCTURAL DESIGN DATA	13 of 36 & 2 of 6	At least 50% of the wheels shall be driven by electric motors and it should be complete with gear reducers, electro-hydraulic brakes, coupling, oil tight casing, etc. & Drive equipment : Electric motor with suitable coupling & electro hydraulic thruster brake.	We recommend to use Geared motor for Long Travel Drives. Geared motors having integral DCEM brake and is with hollow shaft and it is a compact unit hence sepearate input/ output couplings are not required. This drive arrangment eliminates the mis-alignments due to operation and this drive has less mainteneance than conventional drive with sepearate couplings, brakes, motor. We have executed Geared motor travel drive for our executed projects and are working satisfactorily hence pl review and confirm.	Bidder to follow the specification. However same can be proposed during detail engineering for customer approval and customer decision is final in this regard.
7	Technical Enquiry Specification for Reversible Stacker cum Reclaimer Package	Pt. 8	13 of 36	Three (3) point supports shall be provided to take care of irregularity of the track.	A three point - four corner type of support will be provided.	Bidder to follow the technical specifications.
8	Technical Enquiry Specification for Reversible Stacker cum Reclaimer Package	Pt. 16	14 of 36	The boom conveyor shall be reversible type complete with drive motor, gear reduction unit, hydraulic couplings and hydraulic thruster brakes.	The boom conveyor drive will be reversible; consisting of motor, fluid coupling with drum, EHT brake, bevel helical gearbox with hollow output shaft and shrink disc coupling.	Bidder to follow the specification. However same can be proposed during detail engineering for customer approval and customer decision is final in this regard.
9	Technical Enquiry Specification for Reversible Stacker cum Reclaimer Package	Pt. 32	17 of 36	Suitable Dust Suppression System along with wash down facility shall be provided in the machine.	We are considering machine mounted Plain water dust suppresssion system including tank of One hour storage, manual hose reel drum and hose of length 30m. Water to be collected from tap-off points provided along the length of stockpile which is in scope of client, pl confirm.	Bidder to follow the technical specifications in regard to machine mounted dust suppression system. Water shall be provided at tap-off points along the stockpile by BHEL as per technical specifications. Piping, valves, QRC etc. from tap-off points shall be in Bidder scope.
10	STACKER-CUM-RECLAIMER (BUCKET WHEEL TYPE) DATA SHEET – DS-19	STRUCTURAL DESIGN DATA	2 of 6	Stability factor For non-operating condition with maximum wind velocity : 1.25	Stability factor for the following case as per Load Case III of ISO : 5049-1 Cl. 9.1 is 1.2. Please review and confirm.	Bidder to follow the technical specifications.
11	ANNEXURE-15 DRAWING AND QAP SUBMISSION SCHEDULE FROM LOI & PRO RATA PAYMENT OF ENGINEERING	-	-	-	The submission date shall be discussed and mutually agreed during detail engineering.	Bidder to follow the submission schedule as per NIT specifications.
ELECTRICAL						
1	ANNEXURE-5 - Technical data sheet STACKER-CUM-RECLAIMER (BUCKET WHEEL TYPE) DATA SHEET – DS-19	---	pdf page 4 / 6	High mast lighting shall be considered at stacker reclaimer area.	SCR machine package Bidder shall considered lighting as required inside machine only. However any High mast lighting out side of SCR machine shall not considered in SCR package bidder scope. Please confirm.	Bidder understanding is correct.
2	ANNEXURE-E - Electrical & C&I Specification	Section-2 / A.4	Page 3 of 20	Minimum 19 Core x 2.5 sq. mm. copper cable shall be considered by bidder in the trailing cable for this purpose.	Bidder proposed that 1.5Sqmm trailing cable size shall be considered instead of 2.5Sqmm.	Please follow the specification.

3	ANNEXURE-E - Electrical & C&I Specification	Section-2 / J	Page 11 of 20	<p>Incase if CRD is considered, separate motorized cable reeling drum shall be provided for power & control cables. Trailing cables shall be run in a cable tray. Further the trailing cable arrangement shall be such that the cables run in-between the track rails. Bidder shall provide power & control cable reeling drums with cables adequate for the total travel length including 20 meters' additional cable length for jointing in case of faults in future.</p> <p>Vendor to provide Energy Chain System as per customer NIT.</p>	<p>Separate motorised cable reeling drum for power and control cable will be considered, with cables running through cable tray between the track rails.</p> <p>Pl. confirm.</p>	Bidder to consider Energy Chain System
4	ANNEXURE-E - Electrical & C&I Specification	Section-2 / K	Page 12 of 20	<p>Cable Racks: Cable routing of the BHEL Power, Control & Screen cables up to Field Mounted JB in the stock yard area is in scope of Bidder. Bidder shall provide required supports, all along the Yard conveyor, so that it shall not foul with the movement of stacker.</p>	<p>Since yard conveyor is not bidder scope, The requirement of cable routing, supports along the yard conveyor for BHEL Power, Control & Screen cables up to Field Mounted JB in the stock yard area are not applicable for us. The same shall be in scope of BHEL.</p>	Routing to be shown in the yard (Between the rails) not on the yard conveyors. Supports to be provided by bidder as specification.
5	ANNEXURE-E - Electrical & C&I Specification	Section-2 / N	Page 12 of 20	<p>Bidder shall design the entire earthing requirement (both Electrical and Electronic earthing) for this package. Below ground earthing by 40mm running along the complete length of rail on both sides is in bidders' scope. Bidder shall provide 1 untreated earth pit for every 15-meter minimum on both the sides of the stacker rail. Risers from the below ground earthing rod shall be considered by bidder for rail earthing at an interval of 50m on either side. Soil treatment with bentonite, salt, etc and installation of additional earth pits required to meet the earth resistance for electrical system & PLC electronic earthing shall be in scope of Bidder. Suitable Lightning protection shall be provided for the machine. The interconnection between Bidder installed earth grid and Existing earth grid is in scope of Bidder.</p>	<p>Bidder proposed that the complete below ground level earthing including earthing pits & raisers, 40mm earth material along complete length of the rail, excavation works, related to civil works shall not considered in bidder scope. Please confirm.</p>	Follow the specification
6	ANNEXURE-E - Electrical & C&I Specification	Section-2 / P	Page 13 of 20	<p>Approval from Statutory Authorities Bidder shall arrange Class 1 Electrical contractor and obtain Electrical Inspector clearance required for Charging of all Transformer, LT / HT MCC & motors of STACKER RECLAIMER. All the fees & charges for obtaining clearance is in scope of bidder. Any other statutory clearance required for STACKER RECLAIMER system shall be in bidders' scope.</p>	<p>Bidder request that any statutory approval for Stacker reclaimer machine shall be in BHEL scope. However, bidder shall provide necessary assistance to obtain the same.</p>	Follow the specification
COMMERCIAL POINTS						
1	SCC	Insurance		Transit cum Storage and E&C Insurance - In BHEL Scope.	We understand that waiver of Subrogation right for contractor will be mentioned in the insurance policy.	Thereis no waiver of subrogation right for any contractor responsible for Insured loss.
2				Drg and documents submisison schedule	The schedule given in the tender document is not feasible. Same shall be discussed and agreed after award of contract.	Bidder to follow the submission schedule as per NIT specifications.
3	SCC	Payment Terms			We request BHEL to give total 10% payment of contract value against drg submisison & approval.	The bidder is required to ensure compliance with the tender specification requirements
4	SCC	Combined LD			We request BHEL to restrict the combined LD on account of delay & non-performnace to 12.5% of the total contract value.	The bidder is required to ensure compliance with the tender specification requirements

5	Bid submisison date		We request BHEL to extend the bid submisison date at least by 4 weeks from current bid submisison date.	The bidder is required to ensure compliance with the tender specification requirements
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Stacker cum Reclaimer Package for Talabira Thermal Power station (3x800 MW)

BHEL Tender ref. No. 77/24/6122/VVN

Pre bid clarifications 2

Sl. No.	Tender Document Description	Clause No.	Page No.	Existing Provision	Bidder's Query	Clarification by BHEL
1	Technical enquiries specifications, D. DESIGN PARAMETERS FOR STACKER CUM RECLAIMER MACHINE	9	13 of 35	The carriage, capable of moving both backward and forward on rail tracks (to be supplied by successful contractor) shall be provided with variable travel speed and drive may have variable voltage & frequency AC motor. The travel mechanism brakes shall have thruster operated brakes. It shall also have manually operated rail clamps.	Travel drive shall be direct drive geared motor along with VVVF drive & DC Electromagnetic brake for travel drive. Bidder has already executed same type of arrangement for NTPC Khurja, NTPC Panki etc.	Follow the specification. However same can be proposed during detail engineering for customer approval and customer decision final in this regard.
2	Technical enquiries specifications, D. DESIGN PARAMETERS FOR STACKER CUM RECLAIMER MACHINE	28	17 of 35	The boom length shall be so selected that the pile base as required to achieve the storage capacity as per Data Sheet can be formed. However, minimum boom length shall be 41 metre. The ratio of boom length to the rail track gauge shall not exceed 5. The track gauge shall be selected accordingly.	We understand, machine will be designed with Boom length of 41 m & rail gauge of 8.2 m.	Boom length of 41m and rail gauge of 8.2m are minimum requirements mentioned in technical specifications, same has to be decided by the bidder based on design criteria given in specifications.
3	Technical enquiries specifications, B. BROAD SCOPE OF THIS PACKAGE BIDDER, Operation & maintenance	3	8 of 35	Supply of rails and rail fixing accessories for entire stacker cum Reclaimer travel region shall be in bidder's scope. Fixing of rails, its alignment and grouting of rails shall be in the scope of BHEL civil contractor, but same shall be supervised by bidder's civil engineers and no claim or issues shall be raised by bidder later on about the alignment issues as it will be a joint responsibility.	Please confirm our understanding as follows, i) Supply of rails and rail fixing - By Bidder's scope, ii) Installation / Fixing of rails, its alignment and grouting of rails - By BHEL Civil contractor Scope. iii) Civil work related for boom anchoring, end buffer frame - By BHEL Civil contractor Scope. iv) Supply of grouting material - By BHEL Civil contractor scope. v) Only supervision during installation of rails - By bidder's scope.	Technical specifications are amply clear regarding scope demarcation, bidder to follow the same.
4	Technical enquiries specifications, B. BROAD SCOPE OF THIS PACKAGE BIDDER, C) INSTALLATION SERVICES, ERECTION & COMMISSIONING, PG TEST, O&M	4	6 of 35	Training at Contractor's Premises The Contractor shall conduct training of engineers of the Owner on engineering, operation and maintenance of the equipment at the Contractor's or Associates or Sub Vendor's premises where adequate training facilities are available during the design and manufacturing stage of the Contractor. Three (3) sets of the materials included in the training modules shall be handed over to the Owner upon completion of the training. The content of the training programme shall include but not be limited to: 1. Equipment principles in management and practice for operators, technicians and maintenance personnel. 2. Equipment operation and systems training for operators as applicable. 3. Maintenance training programme covering electrical, mechanical and instrumentation and control.	In our opinion, site training during the erection activity shall be more effective. Hence we proposed training at actual site only.	Bidder to follow the technical specifications.
5	Technical enquiries specifications, B. BROAD SCOPE OF THIS PACKAGE BIDDER, Operation & maintenance	2	8 of 35	Bidder shall also furnish the list of recommended spares for three years' normal operation along with the offer.	We have observed list of mandatory spares is very exhaustive. Hence at this proposal stage bidder will exclude recommended spares. If required same shall be discussed & finalized the list of recommended spares during detail engineering stage.	Bidder to follow the technical specifications and furnish the list of recommended spares for three years' normal operation along with the offer. .
6	Technical enquiries specifications, B. BROAD SCOPE OF THIS PACKAGE BIDDER, Operation & maintenance	8	9 of 35	Belt Weigher, anemometer, rail cleaners, manual rail clamps and electrically operated rail clamps shall be in bidder's scope of supply and erection.	Bidder will provide, 2 Nos. Hydraulic Rail clamps shall be provided with one number common hydraulic power pack which includes electric Motor, Hydraulic Pump, Hydraulic Tank, Filters, Tank Accessories etc. Please confirm.	Bidder to follow the technical specification. However same can be proposed during detail engineering for customer approval and customer decision will be final in this regard.
	Technical enquiries specifications, D. DESIGN PARAMETERS FOR STACKER CUM RECLAIMER MACHINE	26, f	16 of 35	An alarm shall be sounded to enable operator to stop operation and a signal shall be given to anchor the Stacker cum Reclaimer machine automatically by electrically operated rail clamps.		
7	Technical enquiries specifications, D. DESIGN PARAMETERS FOR STACKER CUM RECLAIMER MACHINE	31	17 of 35	Continuous R.C.C. rail foundation to be provided throughout the length of travel zone and suitable RCC platform to be provided at both ends of travel of the SCR to rest the head end of the boom while either under maintenance or out of operation.	We understand, civil work including rail foundation, retaining wall, RCC Platform, buffer & boom anchoring foundation including grouting work shall be carried out by By BHEL Civil contractor Scope.	Technical specifications are amply clear regarding scope demarcation, bidder to follow the same.
	Technical enquiries specifications, L. EXCLUSIONS:	a	34 of 35	Civil rail foundation throughout the length of travel zone and retaining walls for Stacker cum Reclaimer are excluded from bidder's scope. However civil inputs w.r.t this shall be furnished by the bidder to BHEL.		

8	Technical enquiries specifications, B. BROAD SCOPE OF THIS PACKAGE BIDDER, Operation & maintenance, 12. OPERATION & MAINTENANCE (O&M):	21	11 of 35	Bidder shall validate the mechanical and structural design of Stacker cum Reclaimer by Finite Element Analysis method to demonstrate that the stresses are within allowable limits. The same shall be vetted by reputed institutions like IITs/IISc etc./International consultant before review of NLC/ BHEL.	WE have successfully executed so many mobile equipment with our own design, engineering & those equipment are performing satisfactory at different places in India & abroad. Hence we suggest not to keep FEA & vetting activity for such small capacity & boom length machines, as it's a time consuming activity. If you still insisting for FEA then being a proprietary equipment, FEA of machine will be done by tkil and will be explained to client at tkil office in Pune for understanding during drawing approval, if necessary.	Bidder to follow the technical specifications.
9	Technical enquiries specifications, E. OTHER IMPORTANT POINTS:	10	18 of 35	Material of construction (MOC) for various equipment's / Items shall be as per enquiry specifications or any superior material with better properties. However, for other MOC's not specified in the enquiry specifications then it shall be subject to BHEL / Customer / Customer consultant's approval and must be taken care by the bidder during detail engineering without any cost implication to BHEL.	In absence of specific details, bidder has offered material of construction (MOC) as follows, i) Interconnecting piping for Hydraulics - MS with duly painted. ii) Interconnecting piping for Lubrication - MS with duly painted.	Bidder to follow the technical specification. However same can be proposed during detail engineering for customer approval and customer decision will be final in this regard.
10	Technical enquiries specifications, E. OTHER IMPORTANT POINTS:	45, f	23 of 35	Successful bidder shall prepare and submit editable 2D AutoCAD as well as editable 3D model (in E3D) of stacker cum reclaimer machine along with the storm anchor details, rails foundation and boom resting arrangement details associated with the scope of work of this package.	Bidder will provide the 3D model (in PDMS) of the machine for integration with your CHP. However for drawing approval purpose, bidder will furnish 2D drawing. Kindly confirm.	Editable 2D AutoCAD drawings shall be furnished for approval purpose, however editable 3D model (in E3D) shall be reviewed by BHEL/NLC as and when required.
11	Technical enquiries specifications, E. OTHER IMPORTANT POINTS:	45, h	23 of 35	List of Drawings to be submitted for each item/system shall be intimated to the successful bidder during detailed engineering and drawings shall be submitted in line with the list. Engineering drawings/documents must essentially contain the drawings as listed in ANNEXURE-15 (given as part of enclosures) including the following but not limited to these and any drawing/document required by BHEL/Customer shall be furnished by bidder during detail engineering: c. Stability Calculation considering seismic and wind loads. i. Review and vetting of Fabrication drgs & other structures (if applicable)	Being a proprietary equipment & company policy, we are unable to submit the Stability Calculation, fabrication drawing (detail engineering drawing) & other structural drawing of proprietary equipment.	Bidder to follow the technical specifications.
	Technical enquiries specifications, B. BROAD SCOPE OF THIS PACKAGE BIDDER, Operation & maintenance, 12. OPERATION & MAINTENANCE (O&M):	17	11 of 35	Complete detail engineering drawings, calculations, selection of components etc. shall be reviewed & subject to approval of BHEL/Customer/Customer's Consultant during detail engineering.		
12	Technical enquiries specifications, B. BROAD SCOPE OF THIS PACKAGE BIDDER, Operation & maintenance	5	8 of 35	Supply and erection of counter weight shall be in bidder's scope.	i) Counter weight shall be in RCC construction. ii) Civil work shall be carried out by BHEL Civil contractor Scope. Hence bidder would like to exclude RCC counter weight. However bidder will provide site construction drawing for the same. Kindly confirm.	i) Noted. ii) Bidder to follow the technical specifications. Supply and erection of counter weight shall be in bidder's scope.
13	013-Annexure-12 Sub- Vendor List		84 of 357	COAL HANDLING PLANT- CONSOLIDATED SUB-VENDOR LIST (CLASS - I) - 5. Stacker cum Reclaimers - 2. THYSSENKRUPP, PUNE	Bidder requested FOR NAME CHANGE REQUEST	Name change request shall be taken up separately with end customer for approval.
14	013-Annexure-12 Sub- Vendor List		94 of 387	COAL HANDLING PLANT- CONSOLIDATED SUB-VENDOR LIST (CLASS - I) - 28 Slew Bearing - 2. ROTHE ERDE, GERMANY	Bidder would like to propose Rothe erde India. Kindly confirm.	Approval of new vendors apart from the vendors mentioned in the vendor list is subject to approval from end customer which shall be taken up during detail engineering.
15	Annexure-5- Technical datasheet		109 of 124	DATA SHEET - DS-19 - b) Travel speed : Variable speeds for both backward and forward motion (15 M/Min. & 7.5 M/Min.). Slew speed - Not envisaged.	Travel speed / slew speed shall be suitable to the design & operational requirement of the stacker cum reclaimer.	Bidder to follow the technical specifications.
16	005-Annexure-4 Stockyard Layout & Yard conveyor Profile Drawing			Drawing available in PDF.	Kindly share drawing in AutoCAD format.	AutoCAD format shall be provided to successful bidder upon award of contract.

17	Technical specification		Sheet 15 of 35	Operator's cabin shall be of sufficient size to install all control equipment (PLC) of the entire Stacker cum Reclaimer machine. Cabin shall be provided with swiveling type operator's seat, sun visors, two (2) adequately sized CO2 fire extinguishers , lighting, etc. Cabin floor shall have skid proof finish. Operator's cabin shall be air-conditioned type.	Inline with technical requirement, we have considered two (2) Co3 fire extinguishers in Operator cabin only. Bidder has not envisaged Fire detection & Alarm system (FDA system) for E-House & Operator Cabin (Same is considered by other agency/BHEL). Please confirm our understanding is inline with requirement.	FDA is in bidder scope only.
18	Vol. II-H2 Coal handling plant -Section-B	5.23.00	37 of 114	Suitable Dust Suppression System along with wash down facility shall be provided in the machine.	We have considered a plain water DS system along with a washdown system for the S/R machine. The washdown system will operate only when the S/R machine is not in operation. Based on this, we have selected the appropriate water tank and pumps. Please check & confirm.	Bidder to follow the technical specification. However same can be proposed during detail engineering for customer approval and customer decision will be final in this regard.
19	STACKER ELECTRICAL SPECIFICATIONS - ANNEXURE-E - Electrical & C&I Specification. Section-2	A.3 & C 2)	93 of 20 & 5 of 20	A.3- call for Energy Chain system and "C" (2) indicates requirement of 2) Power CRD/ Energy Chain System & Control CRD/ Energy Chain System for each machine	Both Clauses are Contradictory. We are going ahead with PCRD & CCRD for each Machine. Pl. Confirm.	Bidder to consider Energy Chain System
20	STACKER ELECTRICAL SPECIFICATIONS - ANNEXURE-E - Electrical & C&I Specification. Section-2	E.1	7 of 20	Bidder shall provide P&ID, Flow diagram of every STACKER RECLAIMER system, with clear indication of the KKS tag as per IO list for every Typical system	P&ID is not applicable for stacker Reclaimer Machine. Stacker reclaimer being stand alone equipment-KKS tags are not applicable. Pl. Confirm.	Where applicable bidder to follow as per specification.
21	STACKER ELECTRICAL SPECIFICATIONS - ANNEXURE-E - Electrical & C&I Specification. Section-2	F.1	9 of 20	Applicable Dual and triple Redundancy criteria shall be as per customer specification to be strictly followed by the Bidder.	Dual and Tripple redundancy is not applicable for stacker Reclaimer Machine. Pl. Confirm.	Follow the specification.
22	STACKER ELECTRICAL SPECIFICATIONS - ANNEXURE-E - Electrical & C&I Specification. Section-2	K	12 of 20	K. Cable Racks: - Cable routing of the BHEL Power, Control & Screen cables up to Field Mounted JB in the stock yard area is in scope of Bidder. - Bidder shall provide required supports, all along the Yard conveyor, so that it shall not foul with the movement of stacker.	Noted. Yard Conveyor is supplied by Others. Hence required supports on stringer supports has to be given by Yard conveyor Vendor. Required details will be furnished by US (Vendor) . Pl. Confirm.	Routing to be shown in the yard (Between the rails) not on the yard conveyors. Supports to be provided by bidder as specification.
23	Annexure-5-Technical data sheet-DS-19		4 of 6	Lighting-High mast lighting shall be considered at stacker reclaimer area.	High Mast- will not be in Stacker Reclaimer Machine vendor scope. Pl. Confirm	Confirmed
24	Technical Enquiry Specification	7	7	Operation & Maintenance of STACKER CUM RECLAIMER MACHINE for period after Commissioning, O&M demonstration of machine with all interlocks and satisfactory training to customer. This service shall be demanded on site requirement basis during full load operation of TPS (shifts as defined in the specification) - 60 Shifts	Bidder request to add below point: BHEL shall give prior intimation of atleast two days, before start of coal firing, to the Bidder. The 60 shifts shall not be continuous and shall be unequally distributed over a span of 3 months from first coal firing date of the the Unit. If the equipment is handed over to the customer before completion of 60 shifts the Bidder will be paid only for the completed shifts on prorata basis. The price quoted shall be valid till the completion of the project.	Bidder to follow the technical specifications.
25	Technical Enquiry Specification	12	9	This provision for Operation and Maintenance shall start only after completion of Trial operation (as defined in contract) and COD declared by Customer and if Customer doesn't take over the system. The O&M shall start only after written confirmation of BHEL resident manager/ engineer. The O&M shall be payable based on the actual usage duly certified by BHEL resident manager/ engineer.	Please read the above comments.	Bidder to follow the technical specifications.
26	SCC	13 Guarantee/ Warrantee/ Defect Liability period	4	Defects Liability/Guarantee/Warranty period shall be 12 months from the date of Successful completion and acceptance of the PG test of stacker cum reclaimer machine.	Defects Liability/Guarantee/Warranty period shall be 18 months from the date of last major dispatch or 12 months from the date of Successful completion and acceptance of the PG test of stacker cum reclaimer machine, whichever is earlier	Bidder requested to comply with Tender specification requirements
27	Additional					

i)	General Point			Specifications of Idlers & yard conveyor tripper pulley are absent.	Kindly furnish the same for standardization purpose & minimizing the inventory.	NLC technical specifications along with amendment, clarifications and post-bid resolutions provided in tender documents shall be referred for specifications of idlers, yard conveyor tripper pulley.
ii)	General Point			Belt specification is absent.	Please furnish the belt type & cover thickness for our consideration.	NLC technical specifications along with amendment, clarifications and post-bid resolutions provided in tender documents shall be referred for belt type, cover thickness and other belt specifications.
iii)	General Point			Cross Section View is absent.	For better clarity & speed our proposal activity, kindly arrange Cross section drawing in autocadd format.	Bidder to develop the cross section view based on the data given in the technical specifications and layout.
iv)	General Point			Scope Matrix	Pl. furnish detailed Scope Matrix for E&I Section.	Already detail scope provided in the specification.
v)	General Point			General	Pl. confirm Final Approving Authority for Drawing & Documents during Execution of Project.	Drawing/document approval process is clearly defined as per the Section-E Clause no 45 j), page no 24&25 of 35 in technical specifications, bidder to refer and follow the same.

Stacker cum Reclaimer Package for Talabira Thermal Power station (3x800 MW)
BHEL Tender ref. No. 77/24/6122/VVN
Pre bid clarifications 3

Sl. No.	Tender Document Description	Clause No.	Page No.	Existing Provision	Bidder's Query	Clarification by BHEL
A	Mechanical Queries					
1	Technical Enquiry Specification - IS-1-23-2004/002/RS CR PKG	31	17 of 35	Continuous R.C.C. rail foundation to be provided throughout the length of travel zone and suitable RCC platform to be provided at both ends of travel of the SCR to rest the head end of the boom while either under maintenance or out of operation.	RCC structures are BHEL civil contractor scope.	Technical specifications are amply clear regarding scope demarcation, bidder to follow the same.
2	Technical Enquiry Specification - IS-1-23-2004/002/RS CR PKG	34	17 of 35	Water tank along with pumps and pipeline to be provided on stacker/reclaimer for dust suppression system for boom conveyor, intermediate conveyor, belt feeder (if applicable), tripper discharge, yard conveyor receipt.	We are considering machine mounted Plain water dust suppression system including tank of One-hour storage, manual hose reel drum and hose of length 30m. Water to be collected from tap-off points provided along the length of stockpile which is in scope of BHEL, pl confirm.	Bidder to follow the technical specifications in regard to machine mounted dust suppression system. Water shall be provided at tap-off points along the stockpile by BHEL as per technical specifications. Piping, valves, QRC etc. from tap-off points shall be in Bidder scope.

3	Technical Enquiry Specification - IS-1-23-2004/002/RS CR PKG	5	5 of 35	Stacker Cum Reclaimer shall be capable of operating at high wind velocities as mentioned in NIT specifications. It shall also be able to withstand maximum wind velocity as indicated in Project Synopsis, when it is not operating.	Stacker Cum Reclaimer operating wind shall be 65KMPH (i.e 18m/s). Storm wind shall be as per IS 875 (Part-3)	Bidder to refer the NIT specifications and follow the same.
B Commercial Queries						
1	General Commercial terms & conditions- R2 and Special terms & conditions of contract: Performance Security	11 of GCC and CI no.14 of SCC	14 of 38 of GCC (R2)	Performance Security for 5% of the total order value p may be furnished by way of Banker's Local cheque/BG/FD Insurance Surety Bond	As the format for the Insurance Surety Bond is not available in the tender, we are enclosing the format for Insurance Surety Bond for your confirmation. The Insurance Bonds will be issued through Public Sector Insurance Companies. Being MSME, we are entitled to avail the facility of Insurance bonds towards performance security. Hence, we request for your confirmation for the enclosed formats. We are also enclosing circular from National Highway Authority of India accepting Insurance Bond instead of BGs for your reference.	Bidder to comply with Tender specification requirements

2	Liquidated Damages	16.2.1 of GCC	19 of 38 of GCC	Liquidated damages for delayed delivery is half (½) percent of the total contract value of main supplies portion, excluding freight and GST, per week, subject to a maximum of 7.5% of the total contract value of main supplies portion.	Request you to inform maximum cap on L.D. due to delay in delivery and shortfall in performance.	LD is applicable separately for delay in delivery and short fall in performance as per Tender document.
		16.3.3	21 of 38 of GCC	Maximum LD on account of short fall of guaranteed performance parameters as per cl.no.16.3.2 is limited to 15% of total contract price		
3	General			Bid submission end date 30.11.2024	We require 3 weeks time from the date of receipt of reply for all the queries. Kindly extend the due date for submission of submit the bid accordingly	Refer Corrigendum issued for Extension of due date in Portal