

ENQUIRY NO. : 77/19/6003/ANA dtd. 17.04.2019
CHP/LHP/GHP PACKAGE FOR 1X660 MW PANKI THERMAL POWER STATION

Sr. no.	Bid Document	Page	Clause	Description As per NIT	Bidder's Query	BHEL Reply
TECHNICAL QUERIES :						
1	-	-	-	Water terminal point Service water/portable water	We have presumed service water/Drinking water shall be supplied by BHEL at each tank (at 4nos of pump house). Further distribution from outlet of the tank shall be in bidder scope. Please confirm.	Tap point near to the pump houses (2 Nos) shall be provided by BHEL, however further distribution of dust suppression pipe, drinking water pipe, service water pipe etc shall be in bidder's scope.
2	Bid Document : 4A14-SPC-G-0001 Volume III : Mechanical Works Chapter :19 Coal Handling System	97/116	1.3	For venting bunker, minimum two (2) no Vent filter shall be provided on top of each bunker (hopper) Total Qty: 2 x 4 + 2 x 4 = 16no.	The following difficulties to keep the insert able type bin vent filters (2 No's) on each coal bunker. 1. Two (2) nos. Bin vent filters shall be placed on each coal bunker, Hence sufficient clearance shall be given for travelling tripper to travel & discharge the material inside the bunker, which leads to increase of bunker diameter & building dimensions. To overcome above difficulty, vendor strongly recommends, one (1) No. conventional bag filter for each coal bunker row. (Major components like bag filter, centrifugal fan & other items will be placed on roof top of bunker & Majority of the duct will be routed from outside of the building.) Please check & confirm.	Please comply specification.

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3	Specification Number IS-1-17-2001/007	25 of 46	4.10.05	Minor civil chipping i.e. exposing the inserts, fixing of Anchor fasters, wherever required shall be in Vendor scope.	All civil & structural are excluded from supplier scope, hence we have not considered any civil works in our scope of supply. Please confirm.	Bidder to comply tender specification.
4	BHEL-ISG Drg. NO. IS-1-FL-713-100-M001_Rev.02	Sheet - 01	-	Utility system	Tender document is silent about utility system at Bucket elevator & Lime stone silo, hence we have not considered any Utility system (DE/DS/SW/PW system). Please confirm.	DE system shall be provided.
5	Specification Number IS-1-17-2001/007	07 of 46	18	Dust Extraction System at Crusher house, Gypsum shed including electrical and C&I as per Technical specification	We have not considered any utility system for Gypsum storage shed & Receipt conv of 3A/3B & TP, since flow diagram is silent about the same.	PW DS shall be provided.
6	BHEL-ISG Drg. NO. IS-1-FL-713-100-M001_Rev.02	Sheet - 01	-	Utility system		
7	Bid Document : 4A14-SPC-G-0001 Volume III : Mechanical Works Chapter :19 Coal Handling System	98 of 116	1.2.6,b	DE system at Crusher house shall be independent including compressor.	Bidder understand that rotary screw type air cooled compressor (1W+1S) for Single stream operation & (2W+0S) for Double stream operation for crusher house DE compressor. Please confirm.	Bidder understanding is correct.

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8	Bid Document : 4A14-SPC-G-0001 Volume III : Mechanical Works Chapter :19 Coal Handling System	92 of 116	M-25, 1.7	Water will supplied through two (2) no. independent centrifugal pumps (1W+1S) up to the nozzles. (Pumps (1W+1S) shall be designed both tipplers are working simultaneously).	During single stream / single wagon tippler complex (WT-1A or 1B) is in operation, selected pump will run with 50% capacity & with designed head (double stream operation condition), due to this pump will be shut off / motor will be tripped, pump & impeller life will be reduced. To overcome this difficulty we suggest 2W+1S pumps for two no. wagon tippler complex (WT-1A & WT-1B). When single stream (WT-1A or WT-1B) is in operation 1W+2S pump will be in operation, during both tipplers (WT-1A& 1B) are in operation 2W+1S pumps will be in operation. Selected pump will be dedicated for each wagon tippler complex. Please confirm.	Please follow tender specification.
9	Bid Document : 4A14-SPC-G-0001 Volume III : Mechanical Works Chapter :19 Coal Handling System	91 of 116	M-24, 1.1	Pre-spray System having common water tank & common water supply pumps shall be provided. Flow rate & head of each pump shall be based on minimum eight (8) no. waiting wagons being wetted simultaneously.	During single stream / single wagon tippler complex (WT-1A or 1B) is in operation, selected pump will run with 50% capacity & with designed head, due to this pump will be shut off / motor will be tripped, pump & impeller life will be reduced. To overcome this difficulty, we suggest 2W+1S pumps for Wagon tippler complex (WT-1A/1B). When single stream (WT-1A or WT-1B) is in operation 1W+2S pump will be in operation, during both tipplers (WT-1A & WT-1B) are in operation 2W+1S pumps will be operation. Selected pump will be dedicated for four (4) wagons per tippler. Please confirm.	Please follow tender specification.

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10	Bid Document : 4A14-SPC-G-0001 Volume III : Mechanical Works Chapter :19 Coal Handling System	91 of 116	M-24, 1.6	Pre-spray system for waiting wagons near Wagon tippler complex-1A & 1B. Necessary supporting structure for spray header with cat ladder, walkway & handrail etc.	Due to the layout constraint & two rail track joining area structural walkway is not possible for pre-spray system. Hence we are request client to re-check the requirement of structural walkway at spray header for pre wetting of wagons.	Please follow tender specification.
11	Technical Enquiry Sepcificatio n.pdf IS-1-17-2001/007	3 of 46 8 of 46	02.00.00 03.01.00 (a)	The scope of CHP package submission of engineering & civil assignment drawings... Review and acceptance of engineering & Civil assignment drawings...	Any type of Civil and Structural work is excluded from Bidders scope. Please confirm.	Noted. However, review & acceptance of engineering & civil assignment drawings of bidder supplied equipment shall be as per NIT specification.
12	Technical Enquiry Sepcificatio n.pdf IS-1-17-2001/007	3 of 46	02.00.00	Performance Guarantee Testing of total conveyor system (except machines which are not in bidders scope)	Bidder understands that Machines are in Bidders scope. Please confirm.	Machine are in bidder's scope.

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13	Technical Enquiry Sepcificatio n.pdf IS-1-17-2001/007	7 of 46	Note No. c.	BHEL shall prepare G.A Drawings....	As per our Intellectual property Rights (IPR) policy , AutoCAD drawings of proprietary equipment's such as Wagon tippler, Side Arm Charger , Wagon Shifter , Apron Feeder , VGF , Vibrating Feeders, Ring Granulators , Hammer Mills, etc cannot be furnished in AutoCAD Format , instead PDF G.A drawing shall be furnished. Please confirm.	GA of WT complex, Shifter Pusher complex drawing etc shall be furnished in autocad format.
14	Technical Enquiry Sepcificatio n.pdf IS-1-17-2001/007	7 of 46	Note No. d.	Bidder to prepare and furnish all CHP/LHP/GHP in editable 2D AutoCAD and	Vendor will prepare the Layout/ Load data for the Transfer towers and conveyors. These drawing will be Mechanical G.A .This will be input to BHEL for preparing the down the line Structural / Civil G.A drawings./ Design. After finalisation of structural / civil / design/ drawings/ vendor will incorporate the necessary columns/ beams in their mechanical G.A drawings. Please confirm.	BHEL has already prepared the GA drawings with load data. Bidder to check.
15	Technical Enquiry Sepcificatio n.pdf IS-1-17-2001/007	8 of 46	03.01.00	3d pdms design review model of all GA of transfer points,	As per tender, total structural Design, engineering, manufacturing, supply, erection, painting etc and also any type of civil, is in BHEL scope. In view of the above the 3d pdms model is excluded from bidder's scope. Please confirm.	Bidder to comply tender specification.
16	Technical Enquiry Sepcificatio n.pdf IS-1-17-2001/007	23 of 46	03.01.10	Counter weight.....	As civil is excluded from bidders scope, We request BHEL to include the Civil Counter weights in BHEL scope. Please confirm.	Any type of counter weight for Stacker reclaimr machine, WT, SAC, Shifter, pusher shall be in bidder's scope.

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17	Technical Enquiry Sepcificatio n.pdf IS-1-17-2001/007	23 of 46	03.01.10	... only foundation bolt fixing shall be done by BHEL civil contractor	Bidders considers that Grouting material supply and installation is in BHEL scope.	Grouting of rail for Stacker Reclaimer shall be in bidder's scope.
18.		Page no. 7 of 46 Note: c	IS-1-17-2001/007	BHEL shall prepare GA drawing of building and conveyor gallery. Bidder to prepare final GA drawing after superimposing all fabricated equipment, its fixing, foundation or footing details on BHEL's GA drawings.	Bidder request to clarify whether Detailed Civil D & E works is in scope of Bidder.	Civil works is excluded from bidder's scope. Bidder to superimpose all supplied equipment including fabricated structural equipment in GA BHEL drawings.
19.	03.01.00	Page No. 8 of 46 Clause No. a, b, c, d, e, f, g	Intent of specification	Review and acceptance of engineering & civil assignment drawings/ Building GA and load data drawings, design calculations prepared by BHEL, detail engineering based on the GA and load data drawings prepared by BHEL, preparation of equipment drawings/ datasheets/ quality assurance documents/ field quality plans, part drawings consisting of sequence of installation required for erection, control philosophy for the system under this package, commissioning procedures, operation & (prepared maintenance manuals, Performance Guarantee test procedures and obtaining approval from UPRVUNL/ DCPL/ BHEL. Incorporating all equipment / structural / fabrication drawing, minor modification etc in BHEL GA drawing, preparation of as built drawings and getting it approved from end UPRVUNL is included in bidder's scope.	Ambiguity in specification: 1) Whether civil Detail D & E is in scope of bidder. 2) Whether any review of Civil D & E drawings (prepared by BHEL) is in scope of bidder.	Civil drawing is excluded from bidder's scope. Bidder to check civil drawing prepared by BHEL before releasing to site to avoid any type of mismatch of mechanical equipment for Wagon tippler complex, crusher house, stacker reclaimer etc.

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20.	03.04.05	Pg. 22 of 46	Scope of Work	Civil & Structural works of all WT Houses, Trestles, Galleries, TPs, Crusher Houses, S/R foundation, Drive House, MCC Buildings, Pump/compressor house, tunnels, are excluded from bidder scope. However, all mechanical work with necessary support structures are in bidder's scope. Also bidder shall prepare and furnish their mechanical GA drgs., civil assignment drgs./ load data drgs. Indicating sizes, equipment load details etc. and other input and do the grouting of equipments, minor chipping as mentioned above scope.	If civil D&E works excluded from Bidder scope of works, bidder will not prepare and furnish any Civil drawings. BHEL to confirm on bidder understanding. BHEL to please inform grade of Grouting _ We presume that its one grade higher than foundation of structures.	Civil work is excluded from bidder's scope. Bidder to furnish only input drawing (civil assignment drg), which will be required for civil drawing preparation. Bidder to provide GP-2 or equivalent for grouting material.
21.	03.04.04	Pg. 23 of 46	Scope of work	The construction of store (open and close) shall be in bidder's scope. Bidder also has to consider proper storing of BHEL supplied HT motors and other items in their scope of unloading, storing, inplant Transportation, E&C as per scope of work.	Bidder request BHEL to kindly indicate their requirements for construction of Open and closed storage, Bidder request BHEL to kindly indicate their requirements for construction of Open and closed storage, We proposes storage porta cabin for storage of items. We proposes storage porta cabin for storage of items. Bidder presume that BHEL will handover HT motors and other items inside plant premises only within distance of 1-2 KM for consideration of loading , unloading& transport cost. BHEL to confirm ?	The construction of required stores of Bidder supplied material (open and close) in bidder's scope. Bidder also has to consider proper storing of BHEL supplied HT motors provide at nearby Entry of plant and other items in their scope of unloading, storing, in plant Transportation, E&C as per scope of work.

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22.	04.06.00	Pg. 24 of 46	General Notes	Construction work approval and necessary certificate for building and other construction workers shall be obtained from factory inspector/the Govt. Agencies by bidder. UPRVUNL/BHEL will assist for obtaining such certificate.	Bidder presume that, BHEL being EPC contractor, should taking BOCW certificate on their names only.	Except construction work, Bidder to comply tender specification.
23.	04.07.00 & 04.09.00	Pg. 24 & 25 of 46	General Notes	Bidder shall engage a qualified civil engineer with min 3 year site experience to supervise the correct implementation of their civil assignment drgs. prepared for their machines and correctness of civil and structural works at site in order to suit the civil & structural works for equipment erection as civil works to be done by BHEL's civil and structural contractor at site during construction (i.e. pedestal casting, footings, cutouts, pockets, gallery alignment, survey etc.) so that no issues like misalignment, run out of pockets foundations arises, also a joint protocol to be prepared for record. Later on, no claims from bidder shall be entertained that civil pedestal casting, footings, cutouts, pockets etc are not in order or not as per their drg. and if it exist then these shall be rectified by the bidder at their own cost and any delay on account of this shall be attributable to respective package bidders.	Supervision though provided, However the costs for rectification & dismantling is not responsibility of bidder.	Bidder has to ensure the work, which is going as per mechanical drawing. Later on, no claims from bidder shall be entertained that civil pedestal casting, footings, cutouts, pockets etc are not in order or not as per their drg. and if it exist then these shall be rectified by the bidder at their own cost and any delay on account of this shall be attributable to respective package bidders.

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24.	04.08.00	Pg. 25 of 46	General Notes	Supply of grouting cement (GP-2) and grouting of all mechanical equipment/items and its drives base shall be in the respective bidder's scope. BHEL's civil contractors shall provide only the foundation pockets for pedestals (wherever necessary) as per mech. GA drgs reviewed & submitted by the bidder. Pocket filling concrete shall be in bidder's scope.	Bidder understands that bolt fixing shall be done by BHEL, and Bidder scope is limited to grouting under base plate and pocket.	Bidder to follow tender specification.
25.	05.03.08	Pg. 30 Of 46	General requirements of E & C	Supply and Fixing Foundation/ anchor bolts for base plates of all conveyors & other equipments (for steel to steel and for steel to concrete) including other necessary items shall be in bidder's scope.	Bidder will handover these items to BHEL/BHEL civil agency for further fixing during Civil works , Joint protocol shall be prepared and signed before taking over civil foundation. As civil works is excluded from bidder's scope , bidder will not considered any fixing of fdn/anchor bolts for base plates.	Supply of foundation bolts or anchor bolts are in bidder scope. Fixing of bolts in BHEL's provided foundation pocket shall be done by bidder.
26.	05.03.10	Pg. 30 Of 46	General requirements of E & C	Breaking of wall/ brick cladding and re-doing it for laying conveyor belt for underground tunnel portion shall be in bidder's scope.	As Civil works is in scope of BHEL , necessary dismantling , breaking shall be in scope of BHEL or BHEL appointed civil agency.	Noted.
COMMERCIAL QUERIES :						
1.	SCC	Pg. 3 of 31	Cl. no. 13	Liquidated damages for delay in delivery	In case of delays attributable to BHEL, time extension shall be provided. LD shall be applicable only for the reasons attributable to bidder.	Please refer clause no. 13 of SCC rev-01.
2.	SCC	Pg. 12 & 13 of 31	Cl. no. 23 & 24	Maximum LD for delay in completion of facilities and shortfall in performance	Since this clause is not present in your NIT, we request BHEL to confirm the following; Total amount of LDs (delay and performance) shall not exceed 25% pf the basic contract price and LDs (delay and performance) shall be Customer's sole remedy	Maximum LD for delay and for shortfall in Guaranteed Performance indicated in SCC clause no. 23 & clause no. 24 respectively.

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3.	SCC	Pg. 3 of 31	Cl. no. 23	Defect liability Period	The Defect liability period clause indicated in NIT document is linked with integrated completion of facilities and operational acceptance. Meantime it may be noted that completion of facilities and operational acceptance are beyond our control as we are supplying only equipment. In view of the same, we propose to link Defect liability period with start of supply or from the effective date of contract. If vendor fails to remedy the defects or repair or replace the defective part within mutually agreed time, BHEL has right to make good	Shall be as per revised SCC (SCC rev-01) clause no. 14.
4.	SCC	Pg. 20 of 31	Cl. no. 41	Consequential Damages and Limitation of liability	Since in your NIT you have mentioned this clause as Not Applicable, we request BHEL to confirm the following: - the Contractor shall not be liable to the Employer, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Contractor to pay liquidated damages to the Employer and - the aggregate liability of the Contractor to the Employer, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the Contractor to indemnify the Employer with respect to patent infringement.	Covered as per revised SCC (SCC rev-01) clause no. 53.

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5.	SCC	Pg 12 of 31	Cl. no. 20	Payment Terms for Supply and Services	We seek interest free advance payment for supply and services portion.	Shall be as per clause no. 20 of SCC rev-01.
6.	GCC rev-01	Pg 23 of 28	Cl. no. 29	Force Majeure	Termination rights to both the parties in case of Force Majeure lasts for longer duration on mutually agreed terms.	Shall be as per revised SCC (GCC rev-01) clause no. 54.
7.	GCC rev-01	Pg 22 of 28	Cl. no. 27	Termination of Contract	Bidder shall be entitled to payment of all work undertaken and work in progress up to termination including gross margin in case of termination for client convenience. No right for Risk Purchase in case of Termination for convenience. Termination for convenience shall be on mutually agreed terms. Termination can be done by owner only for material breach of contract,	Shall be as per clause no. 27 of GCC rev-01.