

PROJECT : STEAM GENERATION PLANT AT TALCHER, ODISHA
TENDER NO. : PNMM/PC-150/E-4003/NCB
SUBJECT : REPLY TO PRE-BID QUERIES : LOT 9 Dated 23. 09.2020

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1.	VI.-5.3.4	1284	3.1	<p>In case of CFBC Boiler, 1 working + 1 standby crusher for coal and 1 working + 1 standby crusher for fluxant shall be considered for Steam Generation Plant.</p>	<p>As per tender throughput capacity of coal circuit is 1000 TPH (Rated). To achieve this through put capacity and reduce the coal size from -30 to – 6 mm we need to provide below options 1) Primary Screen 2 x 50% for single stream 2) Impact Hammer Mill 2 X 50% for single stream 3) Secondary Screen 2 x 50% for single stream . Since 1X 100 % crusher , screen sizes are not available for this capacity.</p> <p>Moreover , the streams shall be individual and independent without the interchangeability because of the drastic increase in size of the crusher house size as the space availability in the layout is limited. Also the rated sizes of 50 % capacity itself will be sufficient to operate the plant without any interruption even in case of any breakdowns.</p> <p>Request you to confirm can we provide 2 x 50% capacity (Primary screen, crusher and secondary screen) for both stream without stand by arrangement and interchangeability. Pl confirm.</p> <p>Also, confirm can we provide the crushing system without recirculation of coal circuit (i.e) Primary screen and crusher without secondary screen. The crusher output give(– 6mm) @ 95-97%. Without recirculation.</p>	As per NIT.
2.	PC150/E/4003/S ECVI.-4.0, Rev-0	Sheet 09 of 13,	Cl.3.16,	<p>LSTK Contractor to note that Max. Power for SGP Package shall not exceed 8MWhr/Hr</p> <p>Boiler feed water pumps - Electric Motor Driven (VFD with bypass) & Steam driven Considering IBR requirement</p> <p>ID Fan & FD Fan - Motor Driven with VFD or Steam Turbine driven</p>	<p>We wish to submit regarding the requirement to meet the Maximum power requirement of 8 MW and use of Steam Turbine drive for equipment specified as per Tender specification.</p> <p>Based on Coal specification confirmed vide Pre-bid replies lot 8, we have worked out and wish to propose the Steam Turbine drive as per API-612 (Special Purpose Steam Turbine) also for the overall optimisation of the plant through out the life cycle of the plant.</p> <p>In view of above we request PDIL/TFL to kindly accept the Steam Turbine drive compliant with API-612 also for this project.</p>	Bidder's request for Steam Turbine compliant to API 612 is acceptable.
	PC150/E/4003/S ECVI.-5.1, Rev-0	SHEET 3 of 18,	Cl. No 2.1	<p>DESIGN PHILOSOPHY FOR MACHINERY</p> <p>API 611 - General-Purpose Steam Turbines.</p>		
			Sl. No 178 of REPLY TO PRE-BID QUERIES : TECHNICAL — LOT 3	<p>Steam turbine as drive for BFW pumps shall be designed as per API 611 (general purpose)</p>		

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3.		BOQ- Schedule of Rate (SOR)- Annexure A_ GCF/ Guaranteed works cost		C Guarantee works cost table In Column E Total Work Cost (Rs. Per Day)	In Guarantee works cost table, In column "E" , Total work cost " unit" has specified as "Rs.Per day" . The same to be corrected as "Per day consumption of respective Utilities "	Amendment, if any shall be issued shortly.
4.	SECTION-II/ B. EVALUATION METHODOLOGY/ a.NPV OF TOTAL LUMP SUM TURNKEY (LSTK) PRICE/ TOTAL CONTRACT PRICE -/ Page No 13	(PDF Page No:17 of 2464)		C NPV OF TOTAL LUMP SUM TURNKEY (LSTK) PRICE/ TOTAL CONTRACT PRICE - The TOTAL LSTK PRICE / TOTAL CONTRACT PRICE (Including all taxes, duties, levies and GST) as derived from the SCHEDULE OF PRICES will be discounted at the rate of 10.0% p.a., as per the cumulative monthly payment schedule / "S" curve submitted by the Bidder for the implementation period. The Bidder shall furnish, the cumulative monthly payment schedule of its CONTRACT PRICE for 26 months project schedule in a tabular form as per prescribed format. The month-wise phasing of expenditure indicated by Bidder will be used for evaluation and form part of the CONTRACT for capping the monthly payment based on the actual progress of work. The cumulative monthly payment schedule / "S" curve has to be given by the bidders considering payment schedule given elsewhere in the tender.	Bidder requests to provide sample NPV calculation for total lumpsum Turnkey (LSTK) price/ total contract price ,so that every bidder's understanding is at par and will help in assessing the impact of the monthly wise payment figures provided by the bidder inline with the OWNER's understanding	Detailed evaluation methodology has been provided in the NIT
5.	SECTION-II/ B. EVALUATION METHODOLOGY/ b. NPV of works cost / Page No 13	(PDF Page No:17 of 2464)		C Bidder shall furnish the Guaranteed Consumption Figures of Raw Materials, Utilities and Condensate as per prescribed format (Annexure A of BOQ /Schedule of Price). The differential Works cost (in comparison to Bidder quoting the lowest Works Cost) considering 330 stream days per year will be calculated and will be discounted at discount rate of 10.0% p.a. for a period of 25 years of operation starting from Preliminary Acceptance. The NPV of differential works cost so obtained on achieving Commissioning (26 months) shall be further discounted at the rate of 10.0% p.a to arrive at present value i.e. month zero	Bidder requests to provide sample NPV calculation for works cost ,so that every bidder's understanding is at par and will help in assessing the impact of the guarantee figures provided by the bidder inline with the OWNER's understanding +F9	Detailed evaluation methodology has been provided in the NIT

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				<p>PDIL: Pre bid replies Lot 5 dated: 31st July 2020: (Point No: 4)</p> <p>Detailed evaluation methodology has been provided in the NIT.</p>		
6.	INSTRUCTION TO BIDDERS [ITB]/ Reverse Auction/ 26.3.6 / Page No 31	(PDF Page No:35 of 2464)		<p>C</p> <p><u>Reverse Auction:</u> The acceptable bidders shall be informed about their respective loading factors before start of the Reverse Auction process.</p> <p>PDIL: Pre bid replies Lot 5 dated: 31st July 2020: (Point No: 5) The loading factors will be derived for each bidder based on the the Monthly payment schedule and Works cost guarantee figures provided by the bidders in their price bid and will be intimated to respective bidder before reverse auction..</p>	<p>Bidder request to confirm, whether bidders are allowed to modify the works cost guarantee and monthly wise payment schedule submitted on receipt of loading factors from PDIL since loading factors will be informed to bidder post bid submission.</p>	<p>The Monthly payment schedule and the works cost figures submitted by the bidder shall remain unchanged. Bidders shall be allowed to change only the TOTAL LSTK PRICE (excluding GST) quoted by the bidder</p>
7.	SECTION-II/ B. EVALUATION METHODOLOGY/ Page No 13	(PDF Page No:17 of 2464)		<p>C</p> <p>Maximum Limit for loading</p>	<p>Bidder request to confirm the maximum limit for loading during evaluation of bid</p>	<p>The loading factors will be derived for each bidder based on the Monthly payment schedule and Works cost guarantee figures provided by the bidders in their price bid and will be intimated to respective bidder before reverse auction.</p>
8.		All Pre bid replies by PDIL		<p>C</p> <p>All pre bid replies by PDIL</p>	<p>Since amendment from PDIL not received, bidder request to confirm whether pre bid replies given by PDIL are valid or only final amendments will be issued by PDIL are valid or both pre bid replies and amendments are valid.</p>	<p>Pre-bid replies are valid until no amendment is issued.</p>
9.	INSTRUCTION TO BIDDERS [ITB]/ Reverse Auction/ 26.3.5 / Page No 31	(PDF Page No:35 of 2464)		<p>C</p> <p>During Reverse Auction, a bidder can reduce his prices repeatedly. The minimum percentage reduction in each step namely, „the bid decrement“ shall not be less than 0.5% of the last bid of the respective bidder. Bidders are allowed to submit/ accept first price without decrement amount but afterwards participation in reverse auction is allowed only with minimum decrement amount/ percentage.</p>	<p>Bidder request to confirm following. Since tender calls for minimum bid decrement value of 0.5 % so whether bidder allowed to reduce bid decrement value like 0.51 %, 0.53 % , 0.55% ,0.6 % etc..or next roundup value of 1 % only to be applied. Please give more clarity on this.</p>	<p>Bid decrement value like 0.51 %, 0.53 % , 0.55% , etc are allowed</p>
10.	PC150/E/400 3/SecVI-5.2 Refer Lot -3 Clarification Sr. no. 284 (Pg No:36 of 71)	Section: VI -5.2 Clause - 2.4 Page 32 of 149		<p>C</p> <p>Vibration & Temperature Machine monitoring (MMS) - Bentley Nevada series 3500:</p> <p>PDIL Reply in Pre bid reply Lot 3: VMS shall be provided for pumps (1 MW and above). For other equipments OEM recommendation shall be</p>	<p>We wish to clarify the PDIL/ TFL reply listed under lot 8 pre-bid query does not address our constraint .</p> <p>We once again request you to provide minimum 3 vendors for Machine monitoring system (MMS) for fair comparison & to avoid undue advantage from single vendor. Normally in PSU jobs more than 3 suppliers</p>	<p>NIT condition prevails.</p>

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				<p>followed. Bidder to consider vibration transmitters with 4- 20 mA connected to Plant DCS for other applications. Vendor for VMS/MMS shall be as per Tender.</p> <p>PDIL Reply in Pre bid reply Lot 8: As per NIT</p>	are listed for each item why in this tender MMS specification listed with single supplier.	
11.	PC150/E/400 3/SecVI-5.2 Refer Lot -3 Clarification Sr. no. 287 (Pg No:36 of 71)	Section: VI -5.2 Clause - 2.5 Page 16 of 149		<p>C</p> <p>Hazardous Area classification - Hazardous Area classification for Instruments shall be Zone 2, IIC, T6.</p> <p>PDIL Reply in Pre bid reply Lot 3: Tender condition prevails.</p> <p>PDIL Reply in Pre bid reply Lot 8: Irrespective of area classification instruments shall be suitable for Zone-2, IIC, T6 inline with NIT requirement. Bidder to comply the same.</p>	<p>PDIL / TFL reply under lot 8 pre-bid does not address our query in totality. The reply listed in Lot -8 is similar to requirement listed in tender for which we are looking clarification from PDIL/TFL. To work on clarity the proper clarification is must from PDIL /TFL. The reply like irrespective of area classification instruments shall be suitable for Zone -2 IIC , T6 which is impractical & can not followed & meet . Example In control room panel mounted instrument like analog /digital meter, control panels we need to made suitable for Zone -2 IIC , T6 Pls. confirm this is an example like wise we can present many examples & hence clarity is must from PDIL /TFL on this point.</p> <p>Further we would like to retain our earlier clarification on this point.</p> <p>Also note that our proposal is development of area classification (Hazardous or safe) shall be done by bidder in detail engg. as per as per relevant Indian standard. The field equipment's /instruments are thus made suitable based on hazardous or safe area classification prepared by bidder. Request you to confirm the same.</p>	All electronic instruments, irrespective of area classification, the execution shall be as per Zone 2, group IIC, T6, Wherever T6 not available T4 may be used.
12.	Pre bid replies Lot 4: (Point No:17)	1.10.5		<p>C</p> <p>All CS materials including forging used for pressure parts shall be procured in fully Killed and normalized condition.</p> <p>Pre bid replies Lot 4: (Point No:17)</p> <p>Bidder to comply NIT conditions. However, in case, bidder proposes alternative specifications, more stringent conditions to be followed</p>	<p>Other Bidder's query : All CS materials including forging used for pressure parts shall be procured as per the specification of ASME sec. II-part A.</p> <p>PDIL/TFL's Reply Bidder to follow NIT considering Minimum requirements.</p> <p>Query ASME Sec-II A specifications will be followed considering the procurement of raw materials.</p> <p>Bidder's clarification dated 11th Sep 2020:</p>	All CS materials including forging used for pressure parts shall be procured in fully Killed and normalized condition.

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					Hot finished CS Material will be in normalised condition since the hot finishing is done at normalising temperature range. For cold drawn CS tubes and pipes, either annealing or normalising will be done after cold drawing.	
13.	Pre bid replies Lot 4: (Point No:19)	1.10.16		<p>C</p> <p>In order to minimize the effect of temper embrittlement for material to 2¼ Cr 1 Mo specifications in the temperature range of 375-575oC, the embrittlement factors 'X' & 'J' shall be limited to: $X = (10P + 5Sb + 4Sn + AS) / 100 \leq 15$ The elements above are expressed as ppm $J = (Si + Mn) (P + Sn) \times 104 < 160$ The elements above are expressed as percentages A stimulated PWHT followed by step cooling shall be performed on a sample of material. Acceptable toughness shall be demonstrated by means of a Charpy V Impact Test.</p> <p>Pre bid replies Lot 4: (Point No:19) Bidder to comply NIT conditions. However, in case, bidder proposes alternative specifications, more stringent conditions to be followed</p>	<p>Other Bidder's query :</p> <p>Material chemical composition will be as per the specification of ASME sec. II-part A.</p> <p>PDIL/TFL's Reply</p> <p>Bidder to follow NIT considering Minimum requirements</p> <p>Query</p> <p>ASME Sec-II A specifications will be followed considering the procurement of raw materials.</p> <p>Bidder's clarification dated 11th Sep 2020:</p> <p>J and X factor for 2 Cr-1 Mo material is not possible since most of the stock material is used for the project. Specific ordering against project will result in ordering of minimum 10 tons per size subject to total order quantity of 100 tons so that a separate alloy steel batch is produced to meet the J and X factor chemistry. We propose to proceed as per ASME code chemistry</p>	As per NIT.
14.	PC150/E/4003/S ecVI -5.5 - CIVIL AND STRUCTURALWORKS Pre bid reply Lot 4: (Sr No:49)	ANNEXURE- III CIVIL ENGINEERING DESIGN BASIS / 6.7 - Minimum Thickness / Sheet 100 of 200 / PDF Page No (1995 of 2464)		<p>D</p> <p>The Minimum thickness of various structural components (Rolled Steel sections) shall be given as .</p> <p>Pre bid replies Lot 4 by PDIL : Point No: 49 As per NIT.</p>	<p>Bidder Clarification dated : 9th July 2020:</p> <p>Rolled section sizes shall be as per the Staad Pro Design (IS) calculation for the applicable loading.</p> <p>The minimum thickness given in table 6.7.1. a (General construction) of various plate shall be applicable for plate formed structural components only. Hence this is not applicable for rolled sections.</p> <p>Bidder Clarification dated : 11th Sep 2020:</p> <p>Bidder would like to clarify the below points due to which the requirement cannot be met Rolled Sections are Standard sections as per IS-808. Size and thickness requirement cannot be altered based on user</p>	As per NIT, The minimum thickness for rolled beams and channels shall be mean flange thickness regardless of the web thickness. Rolled Sections are Standard sections as per IS-808. Any further details shall be discussed & finalised during detailed engineering.

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					<p>requirement for these Hot rolled sections ,due to which thickness requirement for rolled sections as mentioned in the tender cannot be met.</p> <p>However Bidder confirm that all the Beams provided for Boiler structure shall meet requirements to withstand tender requirements , load and its combination for all possible conditions as per the guidelines of IS-800.</p> <p>Considering the above points Bidder request to consider the clarification.</p>	
15.	PC009/E/4003/Section -VI-5.3.7 - DESIGN PHILOSOPHY – BOILER Pre bid reply Lot 3: (Sr No:269) Pre bid reply Lot 4: (Sr No:52)	VI-5.3.7 / 5 of 42 / 2.4.18		C Complete roof and side cladding along with structures for protection against rain and other climatic conditions for operating floors, drum floors and other floor levels including gutter and rain water down pipes. Pre bid reply Lot 3:(Sr No 269) AS PER NIT cl 2.4.18 No change is allowed. Pre bid replies Lot 4 by PDIL: Point No 52) As per NIT. This supersedes Reply to pre-bid Query Lot 3 at Sl. No. 242.	<p>Follow NIT does not address bidders query.</p> <p>Bidder seeks clarity on providing side cladding for "other floor levels" as " The NIT clause No 2.4.18/ Section VI- 5.3.7 is not clear.</p> <p>Bidder confirms that Roof sheeting along with Structure are provided for Bunker , Boiler and Economiser. Side Cladding considered upto Bunker shall provide adequate protection from rain and other climatic conditions since all other platforms are within the boundary of Roof sheeting. (Providing Complete Side Cladding upto Firing floor , will result in Dust entrapment and it will be difficult to operate the boiler during Hot and humid condition owing to less air movement inside)</p>	Bidders understanding is correct. Adequacy of protection against rain & environment to be ensured.