

**NIT NO. - PNMM/EM-00041/E/0948/ICB - TENDER FOR SUPPLY OF NG PREHEATER(D1153) AND NG FEED PREHEAT COIL(D1206)**

**Pre-bid Clarifications-1**

SR. NO.	BIDDING DOCUMENT REFERENCE			SUBJECT	BIDDER QUERY/CLARIFICATION	OWNER RESPONSE
	DOC. NO.	PAGE NO.	CLAUSE NO.			
1				Delivery period	The tender is for Supply cum Erection Package. The preferred delivery period is specified as 8 months from the date of receipt of LOI for FOT works for Indian bidders. What will be delivery period for Transportation and Erection and Commissioning?	As per amendment issued.
2				fuel efficiency for NG Preheater	What will be the Expected minimum fuel efficiency for NG Preheater?	As per ITB.
3				Hazardous area classification	Kindly specify the Hazardous area classification for Electrical and Instrumentation equipments.	Hazardous Area Classification shall be Zone-2, Gas group II-C and temperature class-T3.
4				Piping Material Specification	Kindly provide us the Piping Material Specification.	Material specifications at battery limit of vendor's scope are as mentioned in ITB.
5				drawing	The drawing provided in the tender document is not legible. Request you to kindly provide us the legible drawing.	Drawings provided in ITB are legible as required.
6				Coil orientation	We would like to inform you that we are going ahead with serpentine coils for NG Preheater in radiation section.	As per ITB, tube (coil) orientation shall be vertical or horizontal in radiant section of NG Preheater.
7				Battery limit of equipments	Request you to kindly provide us the equipment layout to estimate the distance between the battery limit to our equipments.	The battery limit of vendor's scope for both the equipments i.e. NG Feed Preheat Coil and NG Preheater shall be as per ITB.
8				Site Work permits	We understand that this plant is working plant and we request you to kindly provide us 24 hour hot permit to work in the site.	Same shall be provided at site as per requirement of contractor.
9				Site fabrication space	We request you to kindly provide us the space for doing fabrication at site.	Same shall be provided at site as per requirement of contractor.

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Pre-bid Clarifications-2**

SR. NO.	BIDDING DOCUMENT			SUBJECT	BIDDER CLARIFICATION	OWNER RESPONSE
	DOC. NO.	PAGE NO.	CLAUSE NO.			
1	EM41-PNMP-TS-002	3 of 5	1.2	Coil replacement work	Bidder understand from the supplied drawings that, existing Flue Gas Duct below elevation +5215 that shown in drawing 41287.1.RD.X.072 shall be replaced with new FG duct with coil D 1206 coil (El. +5212 and El.+4043). In orer to replace duct we need details dimensional and weight information of the supporting strcture APH D1206 and Air duct. Considering given coil layout (13 Passes, 26 tube per row) it is not possible to insert tubes from both ends and achieve required coil geometry.	As per ITB, proposed coil layout feasibility to be verified at site during quotation stage by bidder.
2	EM41-PNMP-TS-002	3 of 5	1.2	Coil replacement work	Bidder understands that for Coil D 1206, Bidder's scope is limited to coil inlet and outlet manifold and battery limit is at the manifold flange.	As per ITB.
3	EM41-PNMP-TS-002	3 of 5	1.2	Coil replacement work	Bidder understands that checking existing structural adequacy, reinforcement of structural and foudations due modification work that is insertion of coil D 1206 is out of Bidder's scope.	As per ITB.
4	P51153 Rev. 1	4 of 5	4	Special requirements	Bidder is unaware local regulations for stack height and allowble emissions. Stack exhaust at El.+33.2m from grade is considered as per process requirements, please confirm it is acceptable. Further please provide allowance stack emission according to local regulations.	Stack height shall be as per guidelines of local pollution control board.
5	P51153 Rev. 1	4 of 5	4	Special requirements	Instruments and electrical components mounted on heater and fuel skid will be suitable for area classification Zone 2, IIB, T3 and environment protection IP65. Please confirm Bidders understanding.	NG preheater hazardous area classification shall be Zone-2, Gas group II-C and temperature class-T3. IP shall be as described in Doc No. EM41-PNIN-7001-0001 attached with ITB.
6	P51153 Rev. 1	5 of 5	8	Control System	Local Control Panel (LCP) housing SIL II certified BMS PLC will be supplied. However SIL analysis and SIF calculations are excluded from Bidder's scope. LCP supplied will be suitable for safe heater startup and shutdown. LCP will be provided with lamp indication and push buttons for field startup. Heater operation shall be from the plant DCS and adequate number of JB's will be supplied for interface between heater mounted instruments and plant DCS.	LCP requirement and BMS PLC location shall be as specified in ITB. Bidder to note that all type I/O's (within bidder's scope) shall be included in the BMS PLC including Heater Operation.

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7	EM41-PNMP-TS-001	3 of 9	2.1.6	Radiant section lining	Since the heater is gas fired only, Bidder proposes Ceramic Fiber Blanker (CFB) lining instead of castable being CFB lining has advantage of easy to apply and replace. Protective coating will be applied inside of heater casing avoid casing being affected by flue gas penetration. Further it will be more suitable for radiant section modularization as required in Cl. 3.8 of this document. Application of CFB will eliminate shop heat dryout and reduce transportation and erection weight.	As per ITB, refractory material shall be castable or equivalent material specification. Ceramic Fiber Blanket (CFB) lining may be considered as equivalent material specification, which shall satisfy the heat insulating properties of the castable material of ITB conditions.
8	EM41-PNMP-TS-001	4 of 6	2.3	Crossover piping	Crossover piping will be welded type and there will be no intermediate headers that are shown in the P&ID EM41-1011-0021.	Crossover piping shall be seamless type, same as coil.
9	EM41-PNMP-TS-001	5 of 9	2.4.3	Damper MOC	Bidder proposes that SS304 material for Shaft and Blades is suitable for the stack damper.	As per ITB.
10	EM41-PNMP-TS-001	5 of 9	2.1	Structural steel	Please confirm Bidder's understanding that structural steel material and shapes will be as per IS standards. This is to avoid import of steel and avoid anti dumping charges.	As per ITB.
11	EM41-PNMP-TS-001	5 of 9	2.4.6	Igniter	There is contradiction of type of ignition system with Cl. 3.14. As per Bidder's understanding, manual igniter with portable chargers Two (2) numbers will be provided. Please confirm.	Igniter shall be as per Cl. No. 2.4.6 and 3.14 of doc. No. EM41-PNMP-TS-001 of ITB.

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**Pre-bid Clarifications-3**

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1	EM-00041-PNMM-0000-A-01	8 of 25	9.2	Bid Price	With reference cost brake up requested in PRICE SCHEDULE FORM, Bidder understands that imported material price basis shall be CIF (INCOTERMS 2000), CHENNAI PORT. Whereas for domestically supplied material price basis shall be FOT, MANALI, CHENNAI. Please confirm. Further clarify that whether INCOTERMS 2000 or INCOTERMS 2010 shall be applied.	Latest incoterms to be followed
2	EM-00041-PNMM-0000-A-01	9 of 25	9.5 (e)	Bid Price	Please confirm Bidder's understanding that Third Party Inspection charges will be applicable to items and/or material sourced outside India. For material sourced within India, inspection will be arranged by PDIL and all inspection charges within India to PDIL/Owner's account.	bidder's understanding is ok
3	EM-00041-PNMM-0000-A-01	18 of 25	22.3.1 (F) (iv) (d)	Taxes and Duties	In case of alteration of tax / duty rates or new tax implemented, any additional burden arises out of such situation shall be borne by the OWNER.	Please refer 30.9 of GCC of ITB
4	EM-00041-PNMM-0000-A-01	19 of 25	23	Terms of Payment	Bidder understands that Payment Terms mentioned in the referenced clause are applicable where separate contracts, one for material supply and another for site erection will be executed. Bidder request to define payment terms in case single contract comprising material supply and site erection will be executed.	For Separate or Single Contract, Payment terms shall be as defined in ITB.

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5	EM-00041-PNMM-0000-A-01	20 of 25	23.3.9	Mode of Payment	<p>Bidder request to define mode of payment for foreign bidders.</p> <p>Bidder understands that payment will be made in the currencies agreed according to Clause 10 of ITB and amount specified in respective currency in the bid. Any change of currency or changes in amount specified in respective currency shall be agreed between Bidder and OWNER. Any burden due change in currency or change in amount specified in respective currency after award shall be borne by the OWNER. Please confirm.</p>	Please note that currency or amount as quoted in the Price Bid shall remain firm till execution of order.
6	EM-00041-PNMM-0000-A-01	22 of 25	31.2	Completion Period	<p>Under the terms of this ITB, Bidder will remain isolated from the Bid evaluation process and unaware of the competitor schedule and quoted price. In case of Project award and for reasons attributed to Bidder, liquidated damages in case of failure to meet delivery period mentioned in the bid shall be according to Clause 23 of GCC (Doc. No. EM-00041-PNMM-0000-A-02). Bidder request to revise the clause accordingly.</p>	Shall be as per ITB and Amendment(s).
7	EM-00041-PNMM-0000-A-01	21 of 25	28.3	Contract Confirmation	<p>Please confirm Bidder's understanding that acknowledgement of LOI/LOA shall not be interpreted as acceptance of the contract. A draft copy of contract shall be provided with LOI / LOA and within 30 days OWNER and Bidder shall reach mutual agreement over terms and finalize the Contract.</p>	Please note that acceptance of LOI shall be as per the provision of referred clause 28.3. Detailed Purchase order shall be issued thereafter.
8	EM-00041-PNMM-0000-A-02	8 of 30	9.1	Performance Security	<p>Bidder will issue Security cum Performance guarantee in form of a Bank Guarantee within 30 days after finalizing contract with OWNER.</p>	Shall be as per ITB

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9	EM-00041-PNMM-0000-A-02	10 of 30	10.12	Acceptance of Inspection Notice	Owner's / Consultant / PDIL's (Indian Supply) decision to witness or waive off inspection shall be conveyed to Bidder within ten (10) working days from the issue of inspection notice. If Bidder did not receive response within ten (10) days, Bidder will consider that Inspection has been waived off.	Shall be as per ITB
10	EM-00041-PNMM-0000-A-02	11 of 30	11.2	Progress Report	Bidder proposes to issue Monthly Progress Report in the first week of the following month. In case OWNER / Consultant notices any concern regarding delay in meeting targets, bidder agrees to submit bi-weekly progress reports.	Shall be as per ITB
11	EM-00041-PNMM-0000-A-02	21 of 30	20.5	Subcontract	Bidder understand that selection and evaluation of subcontractor and/or sub-vendor shall be his own responsibility and prior approval from OWNER/Consultant is not necessary. Unpriced copies of subcontract will be submitted for record purpose.	Bidder's understanding is ok, unless sub vendor / make of item is specified in ITB.
12	EM-00041-PNMM-0000-A-02	21 of 30	23	Price Reduction	In case of shortfall in meeting contractual requirement, Bidder's liability shall be limited to maximum 5% of the total contract price. Bidder shall not be liable to pay OWNER any amount pertaining to loss of production and/or loss of profit and/or any other losses incurred directly or indirectly due to shortfall in meeting contractual requirement.	Shall be as per ITB
13	EM-00041-PNMM-0000-A-02	21 of 30	23.5	Price Reduction	During execution stage Bidder will issue Performance Test Procedure mentioning allowable tolerances for each head taking into account accuracies of the instrumentation. Overconsumption of utilities or shortfall in guarantee figures shall be treated as deficit is meeting guaranteed performance. Liquididate Damage due to shortfall in performace or overconsumation of utilities shall be according to Cl. 23.2.1. Therefore, Bidder request to exclude Cl. 23.2 and 23.5.	Shall be as per ITB

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14	EM-00041-PNMM-0000-A-02	24 of 30	25.3	Termination	In case of termination of contract at any time from effective date, OWNER shall pay Bidder as 1. Material/ items that are completely or partially fabricated: PO value of the material/item in addition transportation, handling and material disposing charges. 2. Material/ items that are ordered but fabrication not commenced: Termination charges at actuals as applicable quoted by sub-vendor and/or sub-contractor and 10% administration charges.	Shall be as per ITB
15	EM-00041-PNMM-0000-A-02			suspension	In case of temporary suspension of job for period of 90 days, OWNER shall pay Bidder suspension charges of 1% of contract value per week. If suspension extends more than 90 days, Bidder shall interpret that contract has been terminated. Under such situation, OWNER shall pay Bidder suspension charges in addition to termination charges defined in Sr. No. 14 above. Please confirm.	Shall be as per ITB
16	EM-00041-PNMM-0000-A-02	24-24 of 30	23.5-25.3	Termination	In case of termination of contract at any time from effective date, OWNER shall pay Bidder as - Material/ items that are completely or partially fabricated: PO value of the material/item in addition transportation, handling and material disposing charges. - Material/ items that are ordered but fabrication not commenced: Termination charges at actual as applicable and 10% material/item PO value as document handling charges.	Shall be as per ITB. However reference clause against this query has been corrected.
17	EM-00041-PNMM-0000-A-02	26 of 30	30	Tax and Duties	Material, items and services will be sourced outside Indian and within India. 1. Local tax and duties will be included in bid firm price for material, items and services that will be sourced outside India. 2. GST at actuals will be applicable to material, items and services that will be sourced within Indian.	All taxes duties outside india shall be borne by Bidder. All applicable Indian taxes duties are to be indicated in the Price schedule

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18	EM-00041-PNMM-0000-A-03	4 of 11	2	Site Visit	In order to get familiarize with the condition Bidder proposes to arrange site visit. Site visit before bid submission will be very helpful, that will enable Bidder to submit most competitive cost and realistic schedule.	Bidder may vist site with intimation/co-ordination to Owner.
19	EM-00041-PNMM-0000-A-03	4 of 11	2	Scope of Work	Bidder understands that design, engineering and site work & supply related to excavation, civil and foundation in included in the Bidder's scope.	Civil foundation for NG Preheater (D-1153) shall be provided by Owner.
20	EM-00041-PNMM-0000-A-03	5 of 11	3	Contractor's Obligations	Bidder understands site preparation work including but not limited to making access, removal/demolition of existing facilities, statutory approval & environment clearance to commence work, ground levelling, excavation, paving is not included in Bidder's scope. Further arrangement of construction power, water, instrument air, plant air at battery limit will be made available by the OWNER.	Civil foundation for NG Preheater (D-1153) shall be provided by Owner. Supply & erection of NG Feed preheat coil (D-1206) involves dismantling of existing facilities, etc., other requirements, as mentioned in ITB. Construction power, water, instrument air, plant air at battery limit will be made available by Owner. Statutory approval shall be as specified in ITB.
21	EM-00041-PNMM-0000-A-03	10 of 11	15	Work Schedule	Replacement of NG Feed preheat coil (D-1206) involves modification work to existing reformer. Hence to schedule replacement activity, Bidder requests to clarify time schedule, duration and tentative date of reformer shutdown.	Tentative date of reformer shutdown may be taken for planning purposes as February 2019. However, shutdown date shall be intimated to successful bidder, separately.