

LSTK-2: SYNGAS PURIFICATION UNIT
(NIT NO.: PNMM/PC288/E/001)
Pre Bid Clarification : Set-1, Part 4 of 4 (Technical)

S. No.	PART	Section	Doc. No. & Name	Clause No.	Page No.	Tender Requirement / PREBID REPLY	Bidder Query	Owner's / PDIL's Reply_dtd 26.07.24
1	Technical (2)	1.0	PC0288/E/001/P-II/ SEC-1.0 PROJECT DESCRIPTION	2.1	2 of 2323	However soil investigation study will be required in the area selected for the project.	Bidder request to furnish a soil investigation report for the proposed area for Syngas purification plant i.e. LSTK2.	Soil investigation survey is under progress & final report (tentative) shall be shared upon completion. Final report is expected in mid September.
2	Technical (2)	1.0	PC0288/E/001/P-II/ SEC-1.0 PROJECT DESCRIPTION	2.2	4 of 2323	The process for coal gasification shall be based on Technology to be supplied by "Bharat Heavy Electricals Limited" (hereinafter referred to as "BHEL"). LSTK contractor shall procure license & basic engineering package and assistance during construction, commissioning & operation for the proposed plant.	Bidder understand that the proposed will be for LSTK2 package i.e. syngas purification plant and hence procurement of license and basic engineering package from BHEL may not be applicable as the design requirements are mentioned in the tender. Please confirm.	Bidders understanding is correct.
3	Technical (2)	1.0	PC0288/E/001/P-II/ SEC-1.0 PROJECT DESCRIPTION	2.3.1, 2.3.2	4 of 2323	Battery limit for DM water, Drinking water and Service / Construction water post mechanical completion.	Bidder request to specify the battery limit on plot plan for the DM water, service water / construction water and drinking water for syngas purification plant.	The tie-in to be provided at battery limit, however exact location/co-ordinate will be shared during detail engineering stage.
4	Technical (2)	1.0	PC0288/E/001/P-II/ SEC-1.0 PROJECT DESCRIPTION	2.3.3	4 of 2323	If any further treatment is required for usage as cooling water, the same shall be in the scope of LSTK contractor	Bidder request to furnish the cooling water quality to understand the requirement of any additional treatment syngas purification plant.	Please refer technical section -2
5	Technical (2)	1.0	PC0288/E/001/P-II/ SEC-1.0 PROJECT DESCRIPTION	2.3.4	4 of 2323	Condensate Polishing Unit	Bidder request to specify the battery limit on plot plan for the condensate for syngas purification plant if generated to be sent	The tie-in to be provided at battery limit, however exact location/co-ordinate will be shared during detail engineering stage.
6	Technical (2)	1.0	PC0288/E/001/P-II/ SEC-1.0 PROJECT DESCRIPTION	2.3.5	5 of 2323	Construction Power required for Purification Plant till mechanical completion shall be arranged by LSTK Contractor himself.	Scope of construction power is not clear. Please clarify the construction power till mechanical completion will be arranged by Bidder or Construction power will be made available by Owner on chargeable basis to the bidder. In case of construction power will be made available by Owner at the specified feeder, please provide the below details. 1. Location of existing substation and cable route details till purification plant.	Refer Cl.No.2.8 (g) of SCC in this regard
7	Technical (2)	5.4	PC-288/E/Sec-5.4 DESIGN PHILOSOPHY- ELECTRICAL	1.6	755 of 2323	1 No. 415 V Feeder (400 A) at Existing Substation shall be made available by Owner for Construction Power. Tapping of Construction Power (on chargeable basis) from this feeder.....and further distribution shall be in LSTK Contractor's scope. However during non availability of construction power, LSTK contractor shall have to arrange emergency power, if required, through DG set at their own cost.		
8	Technical (2)	1.0	PC0288/E/001/P-II/ SEC-1.0 PROJECT DESCRIPTION	2.3.11	6 of 2323	Other facilities available in Chemical Complex	Bidder understand the facilities mentioned in clause 2.3.11 is not part of bidder's scope. Please confirm.	Bidders understanding is correct.
9	Technical (2)	3.0	PC0288/E/001/P-II/ SEC-3.0 CONTRACTOR'S SCOPE OF WORK	1.2	19 of 2323	Receiving of Syngas (automatic system shall be considered) - (1 train)	We understand that the syngas shall be made available at the Syngas Purification plant B/L by LSTK 1 contractor. Please confirm. Please elaborate the automatic system for receiving of syngas.	The syngas flow to the syngas purification plant shall be carried out on auto mode through DCS.
10	Technical (2)	3.0	PC0288/E/001/P-II/ SEC-3.0 CONTRACTOR'S SCOPE OF WORK	1.5, Note 4	21 of 2323	Note: 4. Construction Power required for Coal Gasification Plant till mechanical completion shall be arranged by LSTK Contractor himself.	We understand that the Coal Gasification is not scope of Bidder for Syngas Purification plant and hence the same is not applicable. Please confirm.	Instead of coal gasification, it should be purification unit. Suitable amendment shall follow
11	Technical (2)	3.0	PC0288/E/001/P-II/ SEC-3.0 CONTRACTOR'S SCOPE OF WORK	5.1	25 of 2323	Supply of Licence and Know-how: LSTK Contractor shall arrange to grant licence to Owner for operation of plants from respective supplier's of Process Technology for the following: i. Ammonia Synthesis Unit ii. Others, if any	We understand that the Ammonia Synthesis Unit is not a part of this specifications as LSTK 2 bidder's scope is limited to the generation of ammonia synthesis gas i.e. N ₂ +3H ₂ and hence granting licence to owner will not be in the scope of bidder. Please confirm.	Bidders understanding is correct. Suitable amendment shall follow

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12	Technical (2)	3.0	PC0288/E/001/P-II/ SEC-3.0 CONTRACTOR'S SCOPE OF WORK	6.0	26 of 2323	The Engineering Design Specifications shall comprise of technical data and information required for the Detailed Design and Engineering, Procurement/supply of Equipment and Material, Construction, Pre-Commissioning, Start-up and Operation of the Ammonia Synthesis, Ammonia storage & associated Utilities.	<p>Please confirm the scope of Bidder. As per our understanding the scope for this tender (Syngas Purification Plant) shall only be limited to the generation of ammonia synthesis gas (N₂+3H₂), which may include following as per clause 2.2 under Section 1.0</p> <p>CO Sour Shift Methanol wash Liquid Nitrogen Wash NH₃ Synthesis Gas Generation Sulphur recovery unit</p> <p>Further conversion of synthesis gas (N₂+3H₂) to ammonia (NH₃) and including ammonia storage will be by different LSTK contractor. Hence the startup and operation of ammonia synthesis and ammonia storage and associated utilities will not be applicable for the bidder's scope. Please confirm.</p>	Noted,Bidders understanding is correct. Suitable amendment shall follow
13	Technical (2)	3.0	PC0288/E/001/P-II/ SEC-3.0 CONTRACTOR'S SCOPE OF WORK	6.22	47 of 2323	6.22 Hot Flare System: The LSTK Contractor shall prepare Design and Engineering as per API-521 guidelines, of whole flare system (one for Ammonia Plant, one for common for both Ammonia storage tank including flare design loads (for each emergency condition, e.g. Power failure, Steam failure, Fire and other utility failure and Blocked in condition), separate Flare headers, separate Knock out drums up to LSTK battery limit.	As clarified above S. No. 11 the hot flare system will not be part of syngas purification plant bidder's scope. Hence the same is not considered. Please confirm.	Noted, hot flare system wil not be part of Syngas purification plant,. Refer section 3. clause No. :-6.22,Suitable amendment shall follow.
14	Technical (2)	3.0	PC0288/E/001/P-II/ SEC-3.0 CONTRACTOR'S SCOPE OF WORK	7.2.3	52 of 2323	LSTK Contractor shall Design and prepare construction drawings & specifications for all civil & steel structural works required to complete Ammonia Synthesis Unit, Ammonia storage and associated RCC Cooling Towers as given in scope of works.	As the bidder's scope is only limited to the synthesis gas purification plant, which include only generation of ammonia synthesis gas i.e. N ₂ +3H ₂ . Hence civil and steel work related to ammonia synthesis plant and storage will not be in the scope of bidder. Please confirm.	Noted,Bidders understanding is correct. Suitable amendment shall follow
15	Technical (2)	4.0	PC0288/E/001/P-II/ SEC-4.0 DESIGN BASIS	4.0	95 of 2323	For balance of Plant in LSTK Contractor's BL, Process Waste Water, Contaminated rain water& Floor washings from plants shall be routed to OWNER's oily water sewer (OWS), Boiler Blow Down after cooling to 40 Deg C shall be routed to common effluent treatment plant for recovery & Process drains to be routed to OWS or Closed Blow-down (CBD).	Bidder request to inform the battery limit along with location, distance and rounting from syngas purification plant to Owner's OWS and CBD.	The tie-in to be provided at battery limit , however exact location/co-ordinate will be shared during detail engineering stage.
16	Technical (2)	4.0	PC0288/E/001/P-II/ SEC-4.0 DESIGN BASIS	7.0	100 of 2323	CLIMATIC DATA:	Soil bearing capacity and soil restivity is missing in the Climatic data. Bidder request to funrihs the same along with Soil invetigation report.	Soil investigation survey is under progress & final report (tentative) shall be shared upon completion. Final report is expected in mid September.
17	Technical (2)	4.1	PC0288/E/001/P-II/ SEC-4.1 BATTERY LIMIT INTERFACE	1.1	104 of 2323	LSTK Contractor shall carry out all interface engineering for complete compatibility with PDIL/ Bharat Coal Gasification and Chemicals Limited (BCGCL) design with respect to location/ specification for all incoming and outgoing pipelines from the Purification Plant	<p>1. Bidder requests Owner / PMC to provide interface and batterly limit drawings to carry out and estimation for interface engineering.</p> <p>b) Also Bidder requests Owner/PMC to provide preliminary Battery limit drawing / proposed location for AG and UG piping for existing / other new facilities to syngas purification plant.</p>	The tie-in to be provided at battery limit , however exact location/co-ordinate will be shared during detail engineering stage.
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19	Technical (2)	5.4	PC-288/E/Sec-5.4 DESIGN PHILOSOPHY- ELECTRICAL	1.3.2-g	753 of 2323	Illumination system - AC Normal, AC Emergency and Evacuation Lighting (on 110V DC)	1. Illumination system shall be provided within our battery limit of Syngas purification area only. 2. DC lighting is provided entry / exit location in the Syngas purification switchgear room. Kindly confirm.	1. Noted 2. DC Light shall be provided entry/exit location in any building ,Pumphouse,Compressor room , stairs etc.
20	Technical (2)	5.4	PC-288/E/Sec-5.4 DESIGN PHILOSOPHY- ELECTRICAL	1.3.2-k	753 of 2323	Below grade earthing systems to be added in the scope along with connectivity at two points from existing facility.	Kindly provide the soil resistivity of proposed plant area	refer Civil dept reply of above point No.16
21	Technical (2)	5.4	PC-288/E/Sec-5.4 DESIGN PHILOSOPHY- ELECTRICAL	1.3.2-f	754 of 2323	Substation along with Transformer Rooms.	All transformers of syngas purification plant shall be considered oil filled outdoor type except Lighting transformer.	Noted,please ignore this clause and consider cl. No.9.2.11. Amendment shall be issued.
22	Technical (2)	5.4	PC-288/E/Sec-5.4 DESIGN PHILOSOPHY- ELECTRICAL	1.4	754 of 2323	Normal power supply shall be tapped from 2 Nos. 11KV feeders and emergency power supply from 1 no.11KV feeder at Owner's substation for . Further, down stream distribution shall be in LSTK Contractor's scope.	We understand that the same is applicable for complete gasification plant EPC bidder (LSTK 1) terminal point.	For Each LSTK package, Normal power supply shall be tapped from 2 Nos. 11KV feeders and emergency power supply from 1 no.11KV feeder at Owner's substation Further, down stream distribution shall be in LSTK Contractor's scope. Refer cl. No. 5.1.1 of section 5.4 of Design Philosophy- Electrical
23	Technical (2)	5.4	PC-288/E/Sec-5.4 DESIGN PHILOSOPHY- ELECTRICAL	1.4	754 of 2323		Kindly clarify the Electrical terminal point of Syngas purification plant EPC bidder (LSTK-2)	
24	Technical (2)	5.4	PC-288/E/Sec-5.4 DESIGN PHILOSOPHY- ELECTRICAL	1.4	754 of 2323		Kindly provide the Electrical Single line diagram for Syngas purification plant	In Bidder's scope as per DP(Doc No.PC-288/E/Sec-5.4) Cl. No.4
25	Technical (2)	5.4	PC-288/E/Sec-5.4 DESIGN PHILOSOPHY- ELECTRICAL	1.8	755 of 2323	Load Flow, Motor starting study, Transient stability, Short ckt. Study, Relay Co-ordination, Relay Settings(for each switch board) with existing system etc.of the entire electrical installation of Syn gas Purification unit for coal to ammonium nitrate plant 'shall be conducted by the LSTK Contractor using latest software preferably ETAP at appropriate stage of designengineering.	We understand that the system study shall be part of LSTK1 contractor scope. LSTK2 input will provide during engineering stage. Kindly confirm.	As per NIT, system study for this package shall be in Bidder's scope.
26	Technical (2)	5.4	PC-288/E/Sec-5.4 DESIGN PHILOSOPHY- ELECTRICAL	1.9	755 of 2323	LSTK Contractor has to provide the required multifunctional dual channel transducers, Digital Multi-function Meters, latest version numerical/Communicable type protective relays with nonvolatile memory, comprehensive unit providing protection, metering, control & communication with communication port & interlinked with Online Energy/Load Management System	We understand that the common LMS shall be part of LSTK1 contractor scope. LSTK2 package LMS input will provide during engineering stage. Kindly confirm.	Your scope of work shall be up to bidder's I/O rack(to be placed in bidder's substation) as per NIT.
27	Technical (2)	5.4	PC-288/E/Sec-5.4 DESIGN PHILOSOPHY- ELECTRICAL	1.14	756 of 2323	Following Interface & Integrations are envisage presently of LSTK Contractor ; - Control & Protection for outgoing feeders of 11 kV Switchboard at Owner substation to LSTK Contractor Switchboard (Inter tripping, Cable Protection etc.)	The same is not applicable for LSTK-2 Package. Kindly confirm.	This clause is applicable as per NIT e.g Line differential, Intertipping, other logic of up stream breakers & down stream breaker etc.
28	Technical (2)	5.4	PC-288/E/Sec-5.4 DESIGN PHILOSOPHY- ELECTRICAL	2.2.2	759 of 2323	Some of the loads which can be identified as emergency / essential load but not essentially limited to following: - Electrical loads required for continuous operation of process plants utility in case of normal supply failure.	1. We understand that, the emergency power supply shall be provided by client from existing emergency switchgear at 11KV. Hence any separate DG is not required. Kindly confirm. 2. Kindly clarify the terminal point of emergency power requirement for LSTK 2	No DG set in your scope, 11KV emergency power feeder shall be provided as per NIT.

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29	Technical (2)	5.4	PC-288/E/Sec-5.4 DESIGN PHILOSOPHY- ELECTRICAL	2.2.3	760 of 2323	If DC motors will be applicable then 220V DC system along with distribution boards shall also be provided	As per cl. No. 1.3.2-n, page no. 753 of 2323, 110V DC system shall be considered for all DC auxiliaries. Kindly confirm.	220V DC shall be considered For DC motors only as per NIT. 110V shall be for breaker control and Panic Light as per NIT. For DC motors 110 volts may also considered. Amendment shall be issued.
30	Technical (2)	5.4	PC-288/E/Sec-5.4 DESIGN PHILOSOPHY- ELECTRICAL	2.3.1	760 of 2323	The stipulations in these documents shall be considered as minimum requirements: - Indian Standard Specification or equivalent IEC Standards - Publications of IEEE - API Standards - National Electrical safety Code(NESC) - Standards of Underwrites laboratory(UL) - American Society for Testing Material (ASTM) - American National Standards Institute (ANSI) - Other International Standards	Codes and standard for all Electrical equipment shall be considered with IS / IEC / IEEE only. Any other international standard are not followed.	As per NIT.
31	Technical (2)	5.4	PC-288/E/Sec-5.4 DESIGN PHILOSOPHY- ELECTRICAL	1.14	756 of 2323	Following Interface & Integrations are envisage presently of LSTK Contractor ; - Interface and Seamless Integration with Centralised Fire Detection & Alarm System.	Bidder request to furnish the more details for interface or integration such as location, line size, distance, routing etc.	as per clause no.14.8 of DP(Doc No.PC-288/E/Sec-5.4)
32	Technical (2)	5.4	PC-288/E/Sec-5.4 DESIGN PHILOSOPHY- ELECTRICAL	1.14	756 of 2323	However, any other interface and Seamless Integration requirement or any other unforeseen which may arise during detailed engineering/ execution stage, same shall also be in the LSTK Contractor's scope without any cost and time implication.	Bidder request to large extent, all the interface engineering requirement shall be informed in the bidding stage. Any changes or corrections in the later date may attract for re-engineering or re-work and may have cost and time impact.	all intregation/ interface requirement as defined in NIT. Any other integration / Interface as required for completion of this package shall also be in your scope.
33	Technical (2)	5.4	PC-288/E/Sec-5.4 DESIGN PHILOSOPHY- ELECTRICAL	1.3.2-g	754 of 2323	The scope shall also include the erection, testing, commissioning of above equipments. The contractor shall clear the site after commissioning of the equipments / system and obtain the Site Clearance Certificate from Owner's Engineer-in-charge.		As per NIT.
34	Technical (2)	5.4	PC-288/E/Sec-5.4 DESIGN PHILOSOPHY- ELECTRICAL	1.8	755 of 2323	In case equipment is ordered before studies are completed and revision of rating or design is required as a result of Electrical System Study then inclusion of such revisions shall be in LSTK Contractor's scope without any cost and time implication. Contractor to share editable E tap file with all libraries.		As per NIT.
35	Technical (2)	8.0	PC009/E/001/P-II/ SEC-8.0 PERFORMANCE & GUARANTEE TESTS	-	1566 of 2323	Attachment Number 1 Overall Raw Material & Utility balance diagram	Attachment - 1 is missing in the tender document. Bidder request Owner / Consultant to provide the same.	Shall be provided.

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36	Technical (2)	8.0	PC009/E/001/P-II/ SEC-8.0 PERFORMANCE & GUARANTEE TESTS	1.1.1	1567 of 2323	Failure to meet capacity of the plants, quality of the products, pollution levels and noise levels shall be breach of contract requiring corrective action by LSTK contractor irrespective of the cost involved.	Please inform the LDs and maximum LD cap against the failure of the performance gurantee parameters.	Refer Cl.No. 20.0 of SCC
37	Technical (2)	8.0	PC009/E/001/P-II/ SEC-8.0 PERFORMANCE & GUARANTEE TESTS	1.1.1	1567 of 2323	Ammonia synthesis gas on LSTK basis. Carbon-di-oxide gas on LSTK basis.	Bidder will furnish the guarantee on normal flow of ammonia sythesis gas and CO2 gas flow as 105000 Nm3/hr and 24000+2550 Nm3/hr respectively. Min and Max flow will be guaranteed, only demonstration will be given. Please confirm. This query will be applicable agianst all other clause of tender, where min and max flow of ammonia synthesis gas and CO2 gas flow is asked as PG.	Kindly refer clause 2.1.3 Guarantee Test: of PC009/E/001/P-II/ SEC-8.0 PERFORMANCE & GUARANTEE TESTS .
38	Technical (2)	8.0	PC009/E/001/P-II/ SEC-8.0 PERFORMANCE & GUARANTEE TESTS	1.1.1	1567 of 2323	Net export of HP/MP/LP steam (if generated) - MT	As mentioned "No steam credit shall be given to the LSTK Contractor" as per clause 2.3.5 on page 5 of 2323 and in clause 6.2 on page 98 of 2323, and hence the steam export cannot be guaranteed by LSTK contractor. To give guarantee for steam export by LSTK contractor, please confirm the steam credit to LSTK contractor.	Work cost to be calculated for Net steam based on differential steam import and export. Suitable amendment shall be followed.
39	Technical (2)	8.0	PC009/E/001/P-II/ SEC-8.0 PERFORMANCE & GUARANTEE TESTS	1.1.1	1567 of 2323	Sulphur % of recovery to be guaranteed	As per cl. No. 2.3.8 on page 91 of 2323 "No credit shall be given for sulphur recovery", then please explain why sulphur recovery rate is mentioned in the Guarantee Parameters. The same can not be guaranteed, if credit will not be provided. Please inform the % recovery for sulphur, in case of no credit to be given to LSTK contractor.	Credit on sulphur recovery shall not be given,however bidder to comply NIT requirement.
40	Technical (2)	8.0	PC009/E/001/P-II/ SEC-8.0 PERFORMANCE & GUARANTEE TESTS	1.1.1 & 1.1.3	1567, 1568 & 1569 of 2323	Multiple performance gurantee for same parameters have been asked.	Tender asked gurantee for consumption of utilities as well as for the unit cost guarantee for the same utility. It will be double penalties to the LSTK contractor if a utility failed to meet the consumption figure. Bidder request please fix only work cost under the Performance Guarantee for utility consumption, over an above the PG for ammonia synthesis gas and CO2 gas flow. An utility in other form except above specified will not be guaranteed. Please confirm and accept.	As per NIT.
41	Technical (2)	8.0	PC009/E/001/P-II/ SEC-8.0 PERFORMANCE & GUARANTEE TESTS	1.1.2	1568 of 2323	LSTK Contractor shall guarantee cooling water requirement pertaining to LSTK-2 Battery Limit.:	Bidder will furnish the performance guarnatee for cooling tower at 100% load only. The parameters fubsihed by LSTK contractor shall be correspondin the 100% load of the proposed plant. In case 100% load is not acheiable for the reason not attributed to LSTK contractor, then as per applicable codes, PG can be demonstrated. In that case no penalty shall be applicable or breach of contact will be applicable.	As per NIT.
42	Technical (2)	8.0	PC009/E/001/P-II/ SEC-8.0 PERFORMANCE & GUARANTEE TESTS	1.1.3	1568 of 2323	Works cost (Consumption of Raw material & Utilities) Guarantee:	Works cost guarantee and Gas flow guarantee (Ammonia synthesis and CO2 gas) will be subjected to the quality of raw syn gas specified and received from LSTK-1 (as per clause 1.0 on page 9 of 2323. Any changes in the Raw Syngas quality, will impact the PG paramters. The same will be a responsibility of Owner. LSTK-2 contractor will not be liable for a failure of PG in case of change in the raw sysgas quality.	As per NIT.

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43	Technical (2)	8.0	PC009/E/001/P-II/ SEC-8.0 PERFORMANCE & GUARANTEE TESTS	Note ii)	1569 of 2323	The guaranteed works cost shall include cost of materials and utilities required and power consumption for building cooling/heating, lighting, ventilations, air conditioning and consequent costs of such materials which are not in the usual operation of the plant.	The guaranteed aux power consumption shall not include any intermittent loads as specified in the clause.	Bidder shall indicate Total continuous and intermittent load which shall be guaranteed .For intermittent load duty factor shall be 0.5 . Indicative list of aux. Power consumption shall be provided along with amendment.
44	Technical (2)	8.0	PC009/E/001/P-II/ SEC-8.0 PERFORMANCE & GUARANTEE TESTS	Note iv)	1569 of 2323	For the purpose of calculating specific works cost of Ammonia synthesis gas; Demineralised water, condensate export , Make up water for cooling tower, Process Nitrogen, Utility Nitrogen, power and Net HP/MP/LP steam export shall be considered .	As specified in Sr. No. 38, Net Export of steam will be not be guaranteed, if the steam credit for export of the steam will not be provided. Please confirm the same.	Work cost to be calculated for Net steam based on differential steam import and export. Suitable amendment shall be followed.
45	Technical (2)	8.0	PC009/E/001/P-II/ SEC-8.0 PERFORMANCE & GUARANTEE TESTS	Note vi) and 1.3	1569 & 1570 of 2323	vi) No meter tolerances are allowed. No instrument tolerance is acceptable during guarantee test and / or different operational phases	Meter tolerances shall be applicable as per specified PTC codes. Please confirm.	As per NIT.
46	Technical (2)	8.0	PC009/E/001/P-II/ SEC-8.0 PERFORMANCE & GUARANTEE TESTS	1.4	1570 of 2323	Basis of Works Cost Costs mentioned in the clause 1.1.3 are indicative and may change at a later date. Revision, if any, will be intimated to LSTK Contractor before 15 days of price bid opening and the same shall be used for evaluation of the bids.	Bidder request to intimate the changes in cost of calculating works cost at least 30 days before bid opening date or 21 days before bid submission date. 15 days before bid opening is very less time to do the changes. Please confirm.	as per NIT
46	Technical (2)	9.0	PC-288/E001/Sec-9 DRAWINGS AND DOCUMENTS	-	1580 of 2323	Drawings and documents with Bid Process 6.0: P&I Diagrams	P&I Diagrams as received from Licensor / OEM / Vendors will be submitted. Some Licensor may submit the reference project P&I Diagrams, the same will be submitted for your reference and information. Please confirm.	NIT to be followed, however preliminary to be submitted along with bid, firm documents shall be submitted during detail Engineering,
47	Technical (2)	9.0	PC-288/E001/Sec-9 DRAWINGS AND DOCUMENTS	A	1584 of 2323	Drawings and documents with Bid Pompe 3.0: Certified dimensional outline drawing	The said drawing will be submitted in post bid. The same can not be submitted along with the bid.	NIT to be followed, however tentative to be submitted along with bid, firm drg.shall be submitted during detail Engineering,
48	Technical (2)	9.0	PC-288/E001/Sec-9 DRAWINGS AND DOCUMENTS	B	1587 of 2323	Drawings and documents with Bid Engineering flow diagram indicating all instruments, valves, etc. marked with battery limit of supply of	A reference P&IDs can be submitted as per standard practice from OEM. Detailed P&ID will be submitted in post bid stage.	NIT to be followed, however tentative to be submitted along with bid, firm drg.shall be submitted during detail Engineering,
49	Technical (2)	9.0	PC-288/E001/Sec-9 DRAWINGS AND DOCUMENTS	-	1601 of 2323	Drawings and documents with Bid Instrumentation12.0: Control room layout	Control room layout will be submitted, during post bid stage. Please accept.	As per NIT
50	Technical (2)	11.0	PC009/E-001/P-II/ SEC-11.0 OWNER'S ENGINEERS IN LSTK CONTRACTOR'S OFFICE	1.1 & 2.1	1637 & 1638 of 2323	The basis isman months for Purification Plant not exceeding..... Engineers at any time	Bidder request to furnish the details kept blank in the clause.	The basis is(10)....man months for each unit/ section (CO Shift, Methanol Wash, LNW and SRU) Purification Plant not exceeding....(5).... Engineers at any time
51	Technical (2)	11.0	PC009/E-001/P-II/ SEC-11.0 OWNER'S ENGINEERS IN LSTK CONTRACTOR'S OFFICE	1.1 & 2.1	1637 & 1638 of 2323	LSTK Contractor shall provide to Owner's Engineers in LSTK Contractor's Design Office the following facilities and services free of charge:	LSTK Contractor may provide to Owner's Engineers in LSTK Contractor's Design Office and/or Detailed engineering office the requested facilities and services on chargeable basis. The charges can be discussed post award of contract.	As per NIT
52	Technical (2)	12.0	PC0288/E/001/P-II/ SEC-12.0 TRAINING OF OWNER'S PERSONNEL	4.1	1642 of 2323	Participants Maximum Thirty (Max. Two Batches)(20 for each License Plant)	Bidder understand following about the participants count for training. Total maximum participants - 30 Total maximum batches - 2 Maximum participants in each batch and each License plant - 20 Maximum duration of training consisting all License plant - 4 Weeks Maximum duration of training at New plant site - 2 Weeks	As per NIT

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53	Technical (2)	14.0	PNCN/ PC288/E/PART-II-SEC - 14.0 SITE WORKING AND SAFETY CONDITIONS	2.2	1656 of 2323	Depending on availability & requirement, space shall be allotted to the contractor for the duration of this contract.	Please clarify the clause "Depending of availability and requirement, space shall be allotted". Kindly note that there will be a space requirement which shall include for office, covered storage, open storage, fabrication space, etc for the execution of contract. In case of non-availability of the required space in the plot area, please suggest other options for such requirements.	As per GCC & SCC
54	Technical (2)	14.0	PNCN/ PC288/E/PART-II-SEC - 14.0 SITE WORKING AND SAFETY CONDITIONS	2.4	1656 of 2323	The LSTK contractor's shall clear away periodically any rubbish, scrap materials, etc. and dump the same in the area indicated by the OWNER/PMC.	Bidder request to inform the area and distance for syngas purification plant, where specified material is to be dumped.	Owner will inform after award of Job
55	Basic Plan for Temporary Services	7.0	LSTK-2_TechnicalPart	3.1	1435	1 No. 11 kV or 3.3 KV or 415 V Feeder depending upon temporary load requirement at Existing Substation shall be made available. Tapping of Construction Power Cost from this feeder (including supply & erection of all required materials like structural supports for cable tray, cable trays, power cables, control cables, protection & metering, cable termination etc. as well as underground cabling work) and further distribution shall be in LSTK Contractor's scope.	Bidder requests PDIL to provide construction power (415 V) at one point near project boundary for free of cost	Construction power shall be provided by the owner at one point at 11KV/6.6KV/3.3KV on chargeable basis on actual to the contractor. Bidder shall indicate construction power requirement with details of construction power in the bid with month-wise breakup for the entire duration of project. Rest all other requirement shall be same as mentioned in NIT.
56	Basic Plan for Temporary Services	7.0	LSTK-2_TechnicalPart	3.2	1435	Construction Water shall be made available at single point on chargeable basis.	Bidder requests PDIL to provide construction water and drinking water at one point near project boundary for free of cost	Construction Water as per SCC Cl. 2.8(g) Drinking water to be arrange by the bidder
57	Basic Plan for Temporary Services	7.0	LSTK-2_TechnicalPart	3.2.7	1435	Labour colony during construction outside OWNER premise.	Bidder requests PDIL to provide space for labour accomodation inside the plant premises free of cost	As per NIT
58	Basic Plan for Temporary Services	7.0	LSTK-2_TechnicalPart	3.2.3, 3.2.4	1435	3. Construction sheds 4. Construction offices	Bidder requests PDIL to provide space for construction sheds, offices, fabrication yard, stores and material stacking area inside the plant premises free of cost	As per NIT
59	Topographical / Contour Survey	5.5	LSTK-2_TechnicalPart	1.2	1177	The CONTRACTOR may carry out his own Topographical investigation afresh if required. Before commencement of work / Contour Survey, the CONTRACTOR shall clear the site from all the debris lying on the site. At bidding stage, the CONTRACTOR shall visit the site and study the existing site conditions & existing structures if any.	Counter survey and Soil test report is missing from the documents please provide the same	Topographical survey & Soil investigation survey is under progress & final report (tentative) shall be shared upon completion. Tentatively, final report of topographical survey & geotechnical survey is expected in mid Augaust & in mid September respectively.
60	Site Grading	5.5	LSTK-2_TechnicalPart	2.1	1217	The work area shall be cleared and stripped completely of all bushes, roots, trees, Shrubs and other vegetation, organic matter and other objectionable materials. All these should be completely uprooted and removed, and not merely scraped at the surface.	> Bidder requests that all statutory approvals fall under the PDIL responsibility, while the bidder will provide all necessary technical support. > Bidder not envisaged clearing and stripping of all bushes, roots, trees, Shrubs and other vegetation, organic matter and other objectionable materials. > Bidder requests PDIL to provide graded land at FGL level	NIT conditions shall prevail.

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61	Site Grading	5.5	LSTK-2_TechnicalPart	1.3	1177	Fairly graded land site shall be provided to the CONTRACTOR. But to maintain proper and efficient drainage in the plant area, CONTRACTOR is required to study the existing site conditions like high flood level, etc & shall required to re-establish FGL around facilities/ buildings, etc., at no extra cost to OWNER / PMC. These grade levels shall be approved by the OWNER / PMC. Accordingly, micro grading works shall be in CONTRACTOR's scope.	Bidder request PDIL to share NGL , FGL , HPP Levels	Site Levels like NGL will be available in topographical survey report. Topographical survey is under progress & final report shall be shared on CPP portal upon completion. Tentatively, final report of topographical survey is expected in mid August. FGL shall be established upon receipt of final survey report & details shall be shared on CPP portal. For other plant levels like HPP, etc refer NIT clause 1.2.1 - Site conditions of DESIGN PHILOSOPHY - CIVIL & STRUCTURAL WORKS
62	Disposal of Earth	5.5	LSTK-2_TechnicalPart	1.4	1177	The CONTRACTOR shall dispose-off all surplus and unserviceable earth (if any), outside the plant in accordance to local Governing authority, at his own cost. Disposal shall be done at a place outside the plant, with the consent of the OWNER. Location of disposal area shall be decided by the CONTRACTOR and the required necessary approvals from the local bodies shall be the CONTRACTOR's responsibility. Bidder may consider a disposal distance of approx. upto 2 KM initially for estimation purpose.	> Bidder requests PDIL to provide land for disposal of surplus excavated earth inside the plant boundary at a distance of 1000 m from the project site. > Bidder requests that all statutory approvals fall under the PDIL responsibility, while the bidder will provide all necessary technical support.	NIT conditions shall prevail.
63	Masonry	5.5	LSTK-2_TechnicalPart	5.10.7	1263	b. All brick masonry (M 7.5 MPa) grade walls shall be considered as 230 mm thick, except for partition walls which will be 115 mm thick. However, for fire barrier walls minimum thickness shall be considered as 350 mm. However, if there is scarcity of common burnt clay bricks availability, Bricks shall be of non modular fly ash bricks conforming to IS: 12894, class designation 10 average compressive strength.	> Bidder request PDIL to consider brick masonry of grade M 3.5 Mpa > Bidder requests PDIL to confirm type of material to be used for masonry works (Clay brick / fly ash brick / solid concrete block) > Bidder requests PDIL to approve AAC blocks	NIT conditions shall prevail.
64	Walls	5.5	LSTK-2_TechnicalPart	2.5.4	1199	Min. 230 mm thk. hollow/ solid concrete block work	Bidder assumes that external walls shall be 230 mm thk. hollow/ solid concrete block work and partition wall shall be 115mm thick	NIT conditions shall prevail.
65	Removal of Underground and Above Ground Structures	5.5	LSTK-2_TechnicalPart	1.17	1180	All above ground and underground structures will be demolished by the Owner. Underground facilities/structures, if any, demolished/ removed by the Contractor should ensure removal of former will not disturb the functions of existing plant, if any. Demolition/Removal/Rerouting of cables / pipes, etc. encountered during excavation in the plot shall be in Bidder's scope of work. Existing piles if any, needs to be adjusted while making new piling/foundations.	Bidder not envisaged any dismantling / demolition / removal / rerouting of above ground, underground structures, cables pipes etc	NIT conditions shall prevail.
66	Backfilling	5.5	LSTK-2_TechnicalPart	-	-	Backfilling	Bidder assumes excavated earth will be used for backfilling purpose	NIT conditions shall prevail. Refer clause 3.2 : Filling in Annexure-V of DESIGN PHILOSOPHY – CIVIL & STRUCTURAL WORKS

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67	Road	5.5	LSTK-2_TechnicalPart	-	-	Site approach road	Bidder assumes that temporary approach road from plant main gate to project site shall be in PDIL scope	NIT conditions shall prevail i.e. All temporary or approach roads for carrying out the WORK including temporary approach roads for access to LSTK CONTRACTOR'S site office/ workshop/ camp, etc. ground preparation for heavy lifts including approaches to cranes for heavy lifts. OWNER does not take any responsibility for making temporary roads.
68	Landscaping	5.5	LSTK-2_TechnicalPart	2.2.5	1195	Landscaping to be done for areas around control room and technical lab building within bidder's battery area excluding hard paved area. Such treatment shall generally consist of lawns, road side plantation and beautification of building entrance areas. Standard landscape elements such as earth contours, paving, flower beds, hedges, shrubs, ground cover and ornamental trees shall be incorporated in landscape treatment. Necessary water supply / sprinklers shall also be provided. Wherever required, Grass for landscaping shall be "Selection Grass"	Landscaping is not envisaged	NIT conditions shall prevail.
69	Building Requirements	5.5	LSTK-2_TechnicalPart	3	1206	Operators & Maintenance/ Control Room building (Design Consideration -Rack layout, occupancy) Type of Building - RCC blast resistance structure as per specifications/ relevant standard/codal requirements including Hollow /Solid Concrete Block work infill walls	Bidder requests PDIL that Operators & Maintenance/ Control Room building shall be RCC framed structure with hollow/solid concrete block work/ masonry infill walls	NIT conditions shall prevail considering the provision as per standard OISD 163.
70	Road	5.5	LSTK-2_TechnicalPart	14	1449	Asphalting Paving Roads/ Driveways/ Parking areas/ Sidewalks/ Tank pads	Bidder request PDIL to confirm the type of road to consider (bituminous / RCC road)	NIT conditions shall prevail.
	Road	5.5	LSTK-2_TechnicalPart	2.2.7	1219	i. Sub base: The sub base shall be 300 mm layer of crushed / broken size stones on well compacted earth or approved fill. ii. Base course: The base course shall be 225 mm stone size thick water bound macadam consisting of 3 layers of 75 mm each or Wet mix macadam roads. iii. Bituminous wearing course / RCC: The wearing course shall be 75 mm thick for roads with crane duty and 50 mm thick for roads without crane duty. However, roads for crane movement, concrete pavements shall be provided.		
71	PCC	5.5	LSTK-2_TechnicalPart	5.3	1260	75 mm thick PCC of grade M15 (nominal mix) shall be provided under all RCC foundations except under base slab of liquid retaining structures where 100 mm thick concrete of mix M15 (nominal mix) shall be used.	Bidder request PDIL to consider M7.5 Grade PCC instead of M15 grade	NIT conditions shall prevail.

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72	II - Technical (2)	3	PC0288/E/001/P-II/ SEC-3.0 Rev 0	11.1.d)	68/71	QA/QC procedure and quality plans will be discussed during kick-off meeting. Hold, witness and verification points and Owner/PMC/Licensor review/audit requirements will be finalised between Contractor and Owner/PMC/Licensor.	LSTK confirms the requirement to fulfill during execution. However, this is being critical part of execution, strongly suggest separate session / meeting to be scheduled for the same. This is in the form of QAC KOM after Project KOM to have maximum benefit. Details being disc in Project KOM may also be considered as inouts for the same. Request confirmation please.	Same shall be finalised after award of contract and subject to owner approval.
73	II - Technical (2)	9	PC-288/E/Sec-9 Rev P	1.3	4/24	Quality control procedure & plan for piping system.	Specification refers submission of this at bid stage. Same can be done only after detailed engineering & ordering after award of project. LSTK confirms this is Typographical error & required to be read it as "N". Request confirmation please.	Accepted, Amendmend shal follows
74	II - Technical (2)	5.5	PC288/E/001/P-II/5.5 Rev P	Annexure IX : QAP Cl # 4.ii) & 4.iii)	240/242	Refers requirement of Structural Steel welding as per IS specification, including consumables.	LSTK confirms to follow the welding as per ASME Sec IX as it is available with all manufacturers / fabricators. This can help project schedule. Request confirmation please.	As per NIT
75	II - Technical (2)	5.4	PC288-TS-0802 Rev 0	Annexure I : Doc for UPS - Note 1 (appearing in multiple pages)	10/11	4 hard copies & 1 soft copy shall be supplied for approval after order within 4 weeks from the date of LOI.	LSTK Confirms to follow the approval. However, considering the extensive need of protecting environment, this is required to be followed in the form of soft copies only. LSTK confirms their commitment to next generations. GOI also recommends the need of environment protection. Request confirmation please.	Noted
76	II - Technical (2)	5.4	PC288-TS-0802 Rev 0	Annexure I : Doc for UPS - Note 2 (appearing in multiple pages)	10/11	8 hard copies & 2 soft copies in CD shall be submitted as final documents prior to despatch of the equipment. These shall be made in sets and supplied in fine plastic coated folder.	LSTK Confirms to follow the requirement. However, considering the extensive need of protecting environment, this is required to be followed in the form of soft copies only. LSTK confirms submission of doc in suitable soft forms, e.g. pen drive. GOI also recommends the need of environment protection. Request confirmation please.	Noted for this Cl. only.
77	II - Technical (2)	5.3.4	PNMP/PC288/E001/SEC-5.3.4 Rev P	10.0 (appearing in multiple pages)	13/15	Inspection of all items supplied under this contract shall be carried out by independent third party inspection agencies like Lloyds/ BV/ TUV/DNV.	LSTK understands name of "Independent Third Party Inspection Agencies" given is on sample basis. Thus, agencies TUV (all 4 agencies - NORD, SUD, AUSTRIA, RHEINLAND), Tata Projects, IR Class, Quality Evaluation, SGS, ABS would also be employed during execution being Independent & Renowened TPIAs . <u>Request confirmation please.</u>	As per NIT
78	II - Technical (2)	--	--	--	--	--	LSTK requests Supply (Electrical, Mechanical, Civil & Instrumentation) and Site (All Erection & Commissioning) ITPs / MQAPs to be used in the project execution. Same are not found in the tender.	ITPs / MQAPs to be submiited by vendor for Owner/ PMC review
79	Technical (2)	3	PC0288/E/001/P-II/ SEC-3.0	1.2 (a)	19 of 2323	Receiving of Syngas (automatic system shall be considered) - (1 train)	As per Thermax's understanding the syngas we receive will be free of ash and dust, or is there a requirement for us to undertake its cleaning prior to the purification process. Please elaborate the automatic system requirements for receiving the syngas.	As per NIT.The syngas flow to the syngas purification plant shall be carried out on auto mode through DCS.
80	Technical (2)	3	PC0288/E/001/P-II/ SEC-3.0	1.2 (e)	19 of 2323	It is proposed that, cooling water requirement to be merged along with Gasification Island.	Bidder understands that the cooling water (supply & return) will be provided by owner at syngas purification plant's battery limit similar to other utilities specified in the tender.	Bidder understanding is correct.

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81	Technical (2)	2	PC0288/E/001/P-II/ SEC-2.0	2.5	11 of 2323	Nitrogen Utility : Pressure min/nor/design: 6/8/9 kg/cm2(g) Nitrogen for Process: Pressure : 35 kg/cm2(g)	Bidder observed that there are ambiguities in the pressure for nitrogen gas (utility and process). Please confirm the utility and process nitrogen gas pressure (min./nor/max/design) to be considered by LSTK-2 contractor.	Nitrogen Utility : Pressure min/nor/max: 7/9/10 kg/cm2(g) Nitrogen for Process: Pressure : 36 kg/cm2(g)
		4.1	PC0288/E/001/P-II/ SEC-4.1	2.4	105 of 2323	Nitrogen Utility : Pressure (min/nor/max/design): 7/9/11/11.5 kg/cm2(g) Nitrogen for Process: Pressure : To be filled by LSTK contractor.		
		8	PC0288/E/001/P-II/ SEC-8.0	1.7.5	1572 of 2323	Nitrogen Utility : Pressure min/nor/max: 7/9/10 kg/cm2(g) Nitrogen for Process: Pressure : 36 kg/cm2(g)		
82	Technical (2)	8	PC0288/E/001/P-II/ SEC-8.0	1.1.3	1569 of 2323	Guaranteed Specific: Work Cost/1000 Nm3 Ammonia Syn. Gas ("S" = A/N x 1000)	Need to clarify formula for guarantee specifics.	Bidder is required to fill the per day consumption for the proposed plant, accordingly same shall be multiplied by given rate to arrive at the per day consumption cost of the raw material/Utilities and accordingly evaluation shall be done on NPV basis.
83	Technical (2)	8	PC0288/E/001/P-II/ SEC-8.0	1.1.3	1569 of 2323	Guaranteed Total Works Cost "A"/Days = $\sum (Q \times R)$ {Sr. No. 1-9}	Need a clarification on why Instrument Air has excluded from total work cost. Please clarify formula for guaranteed total work cost.	Instrument air will be considered for total work cost. Suitable amendment shall follow.
84	Technical (2)	8	PC0288/E/001/P-II/ SEC-8.0	1.7.6	1572 of 2323	Effluent from purification plant.	Pre-treated effluent to be supplied at battery limit, hence ZLD will not be applicable and will not be guaranteed.	Bidders to supply effluent as per tender. ZLD will not be applicable.
		3	PC0288/E/001/P-II/ SEC-3.0	1.2 (j)	19 of 2323	Pre-Treatment of effluent generated within LSTK-2 B/L, as applicable.		
		4.1	PC0288/E/001/P-II/ SEC-4.1	4	95 of 2323	Effluent from purification plant.		
85	Technical (2)	8	PC0288/E/001/P-II/ SEC-8.0	1.1	1574 of 2323	Catalyst and Adsorbents Life Guarantees	According to the plant configuration, the bidder is expected to design the process based on the 'Sour Shift' process. However, in Section 8 'Performance & Guarantees Test', clause 1.10 refers to the HT/LT shift converter catalyst. Is there flexibility for the	sour shift shall be chosen as sulphur content will be greater in syn gas from gasifier.
		4	PC0288/E/001/P-II/ SEC-4.0	2.2.7	91 of 2323	Plant Configuration		
86	LSTK-2_CommercialPart	3.0	PC288/E/001/P-I/3.0	21.1	200 of 300	OVERALL CEILING ON TOTAL LIABILITY The Maximum Overall Liability under the CONTRACT on account of (a) Delay in execution of project (b) CONTRACTOR failing to meet the Guaranteed Works Cost up to 102.5 %, (c) Termination of CONTRACT (d) Carrying out balance work at the risk and cost of the CONTRACTOR, re-engineering, make good, mechanical warranty (e) Patent infringement and (f) any other liabilities (if any) defined in the NIT shall be capped to 100% of the TOTAL CONTRACT PRICE.	Bidder request that the maximum overall ceiling on the liability will be 10% of the Lumpsum price of the LSTK-2 contract.	Shall be replied Later
87	LSTK-2_CommercialPart	3.0	PC288/E/001/P-I/3.0	8	206 of 300	Total price of 'Grant of Process License(s), Transfer of Technical information, Basic Engineering and Detailed Engineering' not exceed 10% of the TOTAL CONTRACT PRICE.	Bidder request that a CAP on total price of 'Grant of Process License(s), Transfer of Technical information, Basic Engineering and Detailed Engineering' shall not be fixed, considering the different process and licensor will be involved.	Shall be replied Later

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88	LSTK-2_CommercialPart	3.0	PC288/E/001/P-I/3.0	8	75 of 300	8.0 CONTRACT SECURITY CUM PERFORMANCE BANK GUARANTEE (CS cum PBG)	As per this clause, the contract CS cum PBG is mentioned as 10% of total value of contract and after the expiry of DEFECT LIABILITY PERIOD, BG continuing as Contract Security cum Performance Guarantee shall be reduced to 5% of CONTRACT PRICE so as to cover the O&M period plus 6 months. Bidder proposes following. CS cum PBG shall be 10% of the contract value till defect liability period. After expiry of the defect liability period, the CS cum PBG shall be 5% of the O&M contract price to cover the O&M period plus 6 months.	Shall be replied Later
89	General					Pre-feasibility study report	Bidder request Owner to provide pre-feasibility study report.	Not applicable
90	Special requirement					Commissioning of the plant	If commissioning get delayed beyond 3 months for reason/s not attributable to LSTK bidder, LSTK bidder shall be eligible to claim the complete payment by providing PBG which shall be valid for 18 months from mechanical completion or 12 months from commissioning, whichever is earlier.	Shall be replied Later
91					1565 of 2323	Sustained Load test	Bidder request to elaborate more on Sustained Load test as it has requirement of 70% of rated capacity with out interruptions and 95% of rated capacity or actual load prior to interruptions. Bidder request to consider the maximum days for Sustained Load test 21 days.	As per NIT