

SUBJECT: COAL TO METHANOL PROJECT AT DANKUNI COAL COMPLEX, WEST BENGAL ON BUILD OWN OPERATE (BOO) BASIS FOR COAL INDIA LIMITED.						
Lot-1 (Balance)dt. 09.04.2021						
SL. NO.	REFERENCE OF BIDDING DOCUMENT				BIDDER'S QUERY	OWNER'S / PMC REPLY
	Section	Page No.	Clause No.	Subject		
1	PC176/E/4001/P-II/ SEC-1.1	192 of 726	2.1	Plant Site	"Total land area of the site is 121 acre but 43 acre in 6 patches is available for proposed Coal to Methanol plant. Plant site will be made ready after 12 months from award of work." BIDDER request OWNER/PDIL to provide Overall Layout with mark up of Areas allocated to BOO Operator.	Revised layout has already been discussed during the site visit at Dankuni
2	PC176/E/4001/P-II/ SEC-1.16	709	General	Owner's existing facility drawings	Owner/PMC shall provide the existing above ground & underground facility drawings	Not available
23	Condition of contract Article 12	79	12.2	Hand over of site /land	Statement in referred clause does not match with Statement made in Volume 2 Technical Section 1.1 "Project description" Clause 2.1 bullet 2. Owner shall confirm that when plot will be handed over to BOO BIDDER	Plot will be hand over in phased wise manner
	PC176/E/4001/P-II/ SEC-1.1	4 of 7	2.1	Plant Site	BOO BIDDER would like to have the area allotted for establishing the Temporary Site Facilities viz fabrication yards, batching plants, Precast yard, preassembly area, workshops, storage area, site offices, etc. within the plant premises. For such a huge Gasification complex BOO BIDDER needs 40 Acres of land with in DCC to create a sound construction infrastructure to improve the schedule. Hence BIDDER request CIL to provide graded land for the temporary facilities also with in DCC.	Shall be adjusted within Plant area. Any additional area required shall be arranged by bidder
24	PC176/E/4001/P-II/ SEC-1.1	4 of 7	2.1	Plant Site	BOO BIDDER understands that land provided for Temporary Facilities will be free of cost by Owner. BOO BIDDER requests Owner/PMC to confirm the understanding.	Within Plant area will provided on free of cost , however outside plant area will be taken care by Bidder
	Condition of contract Article 23	92	23.3	Access to production plant site	Owner / PMC shall provide drawings of accesses to production plant site	Under Bidder scope
29	Condition of contract Article 25	94	25.2	Construction water	Owner / PMC shall provide the location of water tapping point, total quantity of water which can be given to BOO operator on daily basis, Water analysis report and available flow rate.	Water will be provided in One point in Plant area further distribution will be done by Bidder
30	Volume 2 Technical Section 1.1	192	2.1 bullet 4	Existing township, residential houses and other facilities	BOO BIDDER requests Owner / PMC to clarify the following : a) Existing Township & Other facilities will be refurbished by Owner / PMC and handed over to BOO BIDDER for further use. Owner / PMC to confirm. b) Charges to be applied Owner / PMC on BOO Operator for using the refurbished Existing Township & Other facilities. c)Refurbishment Completion date of existing township and other facilities d)BOO BIDDER understands that Existing Township & Other facilities can be utilized till completion of the installation, commissioning of plant and for further operation & maintenance period. Owner / PMC to confirm.	a) Bidder understanding is correct b) Charges will be applicable which shall be finalized after award of job c) shall be finalized at the time of award of job d) Limited accommodation will be provided by CIL in phased manner
	Volume 2 Technical Section 1.12 Civil and structural steel	364	1.5	Dispose off surplus and unserviceable soil	Owner / PMC shall specify the dumping location	Within Plant area will provided by CIL, however disposal outside plant area shall be taken care by bidder
36	--	--	--	Land for Temporary Facilities	BOO BIDDER therefore requests Owner / PMC to mark the area reserved for Temporary Facilities in the Plot Plan and also indicate the available area in SQM to be provided by Owner / PMC.	Bidder is requested to visit the site and plan accordingly
	PC176/E/4001/PII/SEC-1.3	204	3.2.3	Project Procedures and Methodology	Since this is BOO Project, drawings review is proposed for interface areas only. All proprietor technological drawings are confidential and could have limited or no review. for Review of such dwg by OWNER / PMC , NDA has to be agreed upon the parties involved.	Noted
47	PC176/E/4001/P-II/ SEC-1.1	192 of 726	2.1	Plant Site	BIDDER intends to make the Plant site as "Project Area" for execution purposes. BOO operator request to OWNER to consider production plant site as "Project Site" which shall be quardoned off from existing running plant and BOO operator will implement its own Permit to work system in such areas.	Noted
	PC176/E/4001/P-II/ SEC-1.1	95 of 726	26.2	LD	The time line of LD 4.5 Cr per week with cap of 108 Cr translates to 24 Weeks The timeline in termination of contract needs deliberation as timeline for takeover is significantly lower than applicable LD timeline, which should be more than the minimum time as stated under LD. OWNER / PMC to clarify.	To be discussed with CIL
62	Various	29 of 726	--	Marketing of the entire quantity of methanol	Several references mention that BIDDER to consider Marketing of the entire quantity of methanol. Following are references: 29 of 726 - Cl.1 30 of 726 -(a) General Description of Work 191 of 726- Cl.1 Marketing of the entire quantity of methanol would not be in BOO Operator's scope. Hence BIDDER request OWNER / PMC to delete the references.	Already done
63	Vol-1/ Commercial/ Section 2.0 Pre-qualification criteria	13 of 726	2.1.1	Marketing of any by-product formation	As per referred clause "BIDDER to note that Marketing of any by-product formation by selected Coal Gasification Technology BIDDER apart from Methanol Synthesis Gas will be BIDDER's responsibility." BIDDER requests OWNER to take responsibilities of disposal / sale of all by-products and wastes since BIDDER's scope is limited to Tolling / Processing and not disposal or sale of any product or by-product.	1) There is no marketable product other than Methanol. 2) Sulphur, which is hazardous material and disposal is in the BOO operator's scope. 3) Ash/ slag will be handled by bidder

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	Vol-1/ Commercial/ Section 2.0 Pre-qualification criteria Technical/ Section 1.2- SCOPE OF WORK	13 of 726 195 of 726	2.1.1 2.3.8 & 2.3.9	By-product dispatch	As per referred clause 2.1.1 Section 2.0 Pre-qualification criteria "BIDDER to note that Marketing of any by-product formation by selected Coal Gasification Technology BIDDER apart from Methanol Synthesis Gas will be BIDDER's responsibility." However as per Technical/ Section 1.2- SCOPE OF WORK Cls. 2.3.8 & 2.3.9 "....Liquid Sulphur gets solidified during storing and same shall be dispatched through trucks by owner" "...BOO Operator shall construct the Slag/ Ash Handling System suitable for Slag, Slag-fines & fly ash and recycling/ transfer to Ash pond/ Storage for disposal by Owner. " Therefore, to remain consistent with the other clause (above), BIDDER requests OWNER to take responsibilities of disposal / sale of all by-roducts and wastes since BIDDER's scope is limited to Tolling / Processing and not disposal or sale of any product or by-product.	Bidder to note that by-product formation from Coal Gasification technology is exclusively related to Gasifier. For eg. If Gasifier produce any Chemical/ solvent etc apart from Syn. Gas shall fall in the by-product category. Marketing of same byproduct shall be the Bidder's responsibility. Any saleable by-product shall be the CIL's responsibility.
64	CONDITIONS OF CONTRACT	79 of 726	12.2	Missing Clause	As per the referred clause "The first delivery Methanol (corresponding to availability of Coal) shall be made within a period of 41 (forty one) months from the date of issue of Letter of Award unless rescheduled under Article 10.8 hereof. Owner shall provide the physical possession of the land for Production Plant within 3 (three) months from the date of LOA. The schedule of providing Raw water and Power for commissioning shall be decided based on mutual agreement between Owner and successful BIDDER. However Clause 10.8 is not available. We believe correct reference is 10.7. OWNER / PMC to clarify.	Bidder understanding is correct
66	CONDITIONS OF CONTRACT	92 of 726	Article 23 - 21.1	PRODUCTION PLANT SITE (S) (Wrong Clause Numbering)	BIDDER understand that the first clause under Article 23 is wrongly named as 21.1. OWNER / PMC to kindly rectify the same.	Noted
75	VOLUME - I: COMMERCIAL; Section 6.0	85	16.4	CONSUMPTION	Margin of +/- 1% is not a reasonable value. Bidder suggests to consider a margin of + / - 6% based on the industrial practice and AP experience.	Amendment already issued

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SL. NO.	BIDDER Discipline	REFERENCE OF BIDDING DOCUMENT				BIDDER'S QUERY	OWNER'S / PMC REPLY
		Section	Page No.	Clause No.	Subject		
1	MCN	a) Section 1.13 b) Section 1.5 c) Section 1.4	a) Sheet no. 3 & 4 of 14 (page nos. 672 & 673 of 726) b) Sheet no. 8 of 8 (page nos. 229 of 726) c) Sheet 4 of 13 (page nos. 212 of 726)	a) 1.0 (i) & 3.1 b) 2.17 c) 2.3	FLUX HANDLING	<p>SECTION 1.13: <u>As per Cl. No. 1.0 (i):</u> "Required raw coal shall be supplied by Owner at the unloading hopper from wagon tippler or BOBRN type wagon. For fluxant, the procurement, transportation, handling, storage, conveying, etc. will be in the scope of BOO operator."</p> <p><u>As per Cl. No. 3.1:</u> "ROM Coal (-200mm) / Limestone (-200mm) received from railway siding with help of BOBRN type wagon through Track Hopper and shall be transferred to storage yard with the help of stacker/reclaimer, belt conveyors, rack & pinion gate / rod gate, vibrating feeder etc."</p> <p>SECTION 1.5: <u>As per Cl. No. 2.17:</u> "Fluxant (Lime) procurement and transportation will be in the scope of BOO Operator. Fluxant (Lime) handling, storage, conveying etc. shall be in the scope of BOO Operator's scope."</p> <p>SECTION 1.4: <u>As per Cl. No. 2.3:</u> "Required Raw Coal shall be supplied at the unloading hopper from BOBRN type wagon by the owner."</p> <p>Bidder's query:</p> <p>(1) Please confirm whether coal will be received at hopper from wagon tippler or BOBRN type wagon. <u>Both these methods require different arrangement & have a major impact on layout. Hence, please confirm the same.</u></p> <p>(2) From above clauses, we understand that fluxant (i.e. limestone) shall be supplied by OWNER, currently we are considering that it will be supplied through Trucks, Kindly confirm.</p> <p>Owner / PMC is requested to clarify/confirm the actual requirement.</p>	<p>1. As per Section-1.4, BOBRN type wagon shall be used to supply the coal.</p> <p>2. Fluxant (Lime) procurement and transportation will be in the scope of BOO Operator. Fluxant (Lime) handling, storage, conveying etc. shall be in the scope of BOO Operator's scope.</p>
2	PGPL	Section 1.13	a) Sheet no. 3 & 4 of 14 (page nos. 672 & 673 of 726)	a) 1.0 (i) & 3.1	Coal Supply Plan	<p>To consider adequate Coal Transportation system and storage, Bidder request Owner to provide following</p> <ul style="list-style-type: none"> - How many trains per day? How many wagons per Train? How Much Coal per Wagon? - How many Wagon to be unloaded at same time, Is there any restriction to be followed in terms of emptying time of the entire train? any restriction in term of overall Train waiting time for unloading operation? - Reliability of Coal Supply (i.e. Coal supply will be on daily basis? how reliable is the supply chain? What happen in case of Coal supply with train is stopped?) - We understand Owner is not planning to supply Coal other than Train route, Kindly confirm. 	Coal supply shall be by rail.
3	PGPL	PC176/E/4001/P-II/ SEC-1.4	213 of 726	2.3 Methanol Storage & Loading Gantry	Methanol Storage & Loading Gantry	<p>To consider adequate Methanol Loading system, Bidder request Owner to provide following :</p> <ul style="list-style-type: none"> - How many trains per day? How many wagons per Train? How Much Methanol capacity per Wagon? - Please provide truck & wagon details (i.e. dimensional drawing, nozzle orientation and nozzle size/type). - How many trucks per day? How Much Methanol capacity per Truck? - any restriction in term of overall Train / Truck waiting time for loading operation? - Availability of Train / Truck to load Product Methanol, what happen in case of train / truck is not available for loading? 	As per the available circular of indian railways regarding demurrage and stabling, 6 hours free time loading for tank wagon (other than those specified as black oil) on EOL (Engine on load) basis.

4	PGPL	PC176/E/4001/P-II/ SEC-1.5	244 Onwards of 726	2.0 BOO OPERATOR'S SCOPE	UTILITY SPECIFICATIONS	<p>There are specifications /qualities available for various utilities which are in BOO vendor's scope. As these utilities will be generated and utilized within the BOO scope BL, Bidder will consider the information available in the referred clause for reference only. Also Bidder as BOO contractor, has right to decide the quality and specifications for the utilities utilized in their scope of work. All local & statutory requirements will be met. Owner / PMC to confirm.</p>	<p>a) Please refer Amendment-VIII dated 10.02.2021 for Utility specifications. b) Further, Clause no. 2.1, 2.9 & 2.10 are as per IBR requirement and same has not been Amended and quality shall be as per Section-1.5. c) Clause no. 2.6 is having the composition which is used as per engineering practice and same has not been Amended and quality shall be as per Section-1.5.</p>
5	PGPL	PC176/E/4001/P-II/ SEC-1.1	196 of 726	2.3.1 Raw water Source & supply	RAW WATER AVAILABILITY	<p>As per the Tender Document, Raw water will be made available by Owner at plant BL. Raw water will be supplied from reservoir. Bidder seek Owner confirmation for</p> <ol style="list-style-type: none"> 1. The reliability of raw water supply. Owner to assure raw water at BOO BL on continuous basis based on the requirement. 2. Initially Bidder propose to have 12 hrs of raw water storage in side BOO BL. Owner to suggest as per reliability of raw water supply. 3. Raw water pressure at raw water pump discharge in owner's scope. 4. Raw water received will be free of solids and debris (i.e. filtration and clarification already done). 	<ol style="list-style-type: none"> 1. Noted. 2. Raw water storage hours as per Bidder's requirement. 3. Reservoir is within Plant B.L.. Therefore, query is invalid. 4. water shall not be free of solid & debris. Further, Analysis of water is in BOO Processor's scope.
6	PGPL	PC176/E/4001/P-II/ SEC-1.10	323 of 726	5.2 Emergency Power Supply	Emergency Power	<p>Bidder seeks a clarification from Owner / PMC regarding requirement of power generation for emergency purpose. In the event of a power failure, there will be requirement of emergency power to drive certain critical equipment in the complex. The DG set required to handle this emergency load will be very high in size. Hence, we propose to have a Steam Turbine Generator (STG) to cater this emergency power requirement. The steam required for this STG will be generated from our common coal fired boiler or a potential steam producer in Methanol unit. However, we understand that utilizing coal for power generation may not be permitted due to local environmental restrictions. Bidder requests Owner / PMC's approval for utilizing the power generated using Steam Turbine Generator based on above mentioned philosophy as emergency power for critical users in complex. The power generated will be consumed internally and not for selling or transmitting power to the GRID.</p>	<p>In order to meet the emergency power requirement for critical loads and also for safe shut down of plant, there shall be DG set rated for full emergency power requirement, in the event of the failure of normal power.</p>

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1	Replies to Pre-bid Queries Lot-1	8 of 9		PLANT AVAILABILITY PLANT SHUTDOWN PLANT ON-STREAM FACTOR	As per Technical Query response No. 101 & 104 (Lot-1), Quote As per Sr. 101: ----- "Plant availability shall be 100%" As per Sr. 104: "Plant availability shall be 100% except planned shutdown." Unquote Bidder would like to share that Coal Gasification based plants are considered as a complex plants from the plant operations point of view. In line with this, Bidder proposes to restore 98.5% as plant availability as per the original tender. However, we would propose to consider 35 days of shutdown period in a year. Please remove the wording "at a stretch 35 days". Client / PMC to confirm.	As per the Amenmdnet-VIII dated 10.02.2021, Plant availability factor for all the Coal Based Methanol Plant should be 100% excluding the planned shutdowns. Please now consider the 35 day shutdown period shall be in a year including planned & unplanned shutdown.
2	Amendment VII, Sr. No 28	22 of 94	16.4	CONSUMPTION	Bidder proposes following criteria: Coal (Feed / Fuel)- Coal being a heterogeneous compound and contains various factors affecting the overall performance of the plant w.r.t. consumption / ton of Methanol produced; bidder had proposed guaranteed consumption ratio of ± 6%. However, this can be further discussed, in detail, and finalized during next round of pre-bid clarification meeting. The revised figures based on current understanding are as follows. Coal consumption - within ± 4% of guaranteed ratio (100% capacity) Raw Water consumption - within ± 4% of guaranteed ratio (100% capacity) Power consumption - within ± 4% of guranteed ratio (100% capacity) Client / PMC to confirm.	Consumption criteria shall remain as per Amendment-VII dated 10.02.2021
3	Replies to Pre-bid Queries Lot-1	8 of 9		Guarantee for other different ash content	As per Technical Query response No. 108, 109 & 110 (Lot-1), Quote ----- "B) Bidder has to guarantee for other different ash content. -----" D) Guarantee has to be provided not estimate. Further to above points, Guarantee shall be based on all %ash content." Unquote Bidder shall provide guarantee to produce 2050 MTPD of Grade AA Methanol using feed coal having 24% ash content. Client / PMC to confirm.	Guarantee shall be provided for all range of %ash content in coal (as per Lot-1 reply) PGTR shall be carried for 24% ash in coal as basis of design.
4	Amendment VIII - Technical	13 of 15	18	Heat exchangers/ Air Cooler/ Condensers/ Re-boilers	As per clause, "Air-cooling shall be maximized for which the cut-off temperature of process streams shall be 55 deg C. However, when further trim-cooling by water is necessary, the cut-off temperature of process stream shall be 65 deg C." Whereas, BOO Operator will follow client / PMC guideline wherever it is practical and economical. Bidder is proposing to have liberty to decide the use of available heat inside BOO operator's scope. E.g. some cases, intercoolers of compressor package, where process temperature is more than 65 °C; providing air coolers followed by trim coolers will be complicated and uneconomical. The liberty of deciding the usage of air cooler will also allow BOO operator to recover available heat (methanol loop) for heating process / utility stream (BFW) to make it energy efficient design. Client / PMC to confirm Bidder's understanding.	Section-1.6 shall provide the guideline for BOO OPERATOR. However BOO OPERATOR may follow process design guide lines as suggested by the process licensor
5	Amendment VII- Sr. 2	40	Sr. 2	Exhibit 1 A	Exhibit 1A mentions Methanol Syn Gas Capacity from Gasifier. We understand that it is Raw syngas(H ₂ +CO+CO ₂ +...etc) generated at outlet of Gasifier. Owner / PMC to confirm.	Bidder understanding is correct. However, quantity of "CO + H ₂ " shall only be considered in raw syn. Gas.

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6	Replies to Pre-bid Queries Lot-1	6 of 9	Sr. No 87	TECHNOLOGY CRITERIA - Gas Cleaning, Purification, Methanol Synthesis Gas Generation and Methanol Production (Methanol Synthesis & Purification):	<p>As per Technical Query response No. 87 (Lot-1) Quote: "Bidder understanding is correct. However, following is to be considered as given below:- ----- Purification (AGR) :- Licensor shall be as per attached vendor list ASU :- Amendment shall be issued." Unquote: ----- Bidder understands that to adhere process compatibility and overall integration. Following is to be considered for Licensor: AGR: As per Bidder ASU: As per Bidder Client / PMC to confirm.</p>	AGR shall be as per vendor list only and ASU as per bidder
7	Amendment VII Pre-Bid TQ Reply-Lot-1 (Technical Sr. 87)	42	--	Exhibit 1 B	<p>Since as per understanding of Pre-Bid TQ Reply-Lot-1 (Technical Sr. 87), No PQ required for CO SHIFT, Purification (AGR) and SRU. Hence Bidder understand that - Exhibit 1 B is only applicable for Mehtnol Plant and - Bidder understand that Sr. 2.1 is to be deleted. Owner / PMC to confirm.</p>	Bidder understanding is not correct. PQC is required for gas cleaning, Purification, methanol syn. Gas generation unit as per clause no. 2.1.2 of PQC.
8	Pre-Bid TQ Reply-Lot-1 (Technical Sr. 93 & 94)	6		By Product Marketing	<p>As per Pre-Bid TQ Reply-Lot-1 (Technical Sr. 93) "1) There is no marketable product other than Methanol. 2) Sulphur, which is hazardous material and disposal is in the BOO operator's scope. 3) Ash/ slag will be handled by CIL (CIL to confirm)." As per Pre-Bid TQ Reply-Lot-1 (Technical Sr. 94) "Bidder to note that by- product formation from Coal Gasification technology is exclusively related to Gasifier. For eg. If Gasifier produce any Chemical/solvent etc apart from Syn. Gas shall fall in the by-product category. Marketing of same by product shall be the Bidder's responsibility. Any saleable by-product shall be the CIL's responsibility." Answers of Sr. 93 & 94 referred above are conflicting. Bidder understands that Sulphur, Ash/ slag are saleable by products, hence in line with Sr. 94 response "Any saleable by-product shall be the CIL's responsibility". CIL / PDIL to re-clarify the understanding inline with Sr. 94 response.</p>	Sr. No. 93 & Sr. No. 94 are not conflicting. Please Note that Sr. 94 is regarding exclusively to byproduct (excluding fly ash & slag) generation other than raw syn. Gas from gasifier.
9	Amendment VII			Start-up Utility	<p>In line with Oil & Gas - PSU BOO Tender model, start-up utilities are part of Owner scope. Changes made through Amendment regarding start-up utilities scope is not inline with the general practice. Bidder request CIL / PDIL to keep scope of Raw Coal, Raw Water and Power required for pre-commissioning, Commissioning period in OWNER scope as this is tolling model. CIL / PDIL to kindly issue amendment confirming Bidder's understanding.</p>	NIT condition along with subsequent Amendment shall prevail.
10	Vol-1/ Section 5 ITB	37	3.1	Time Schedule & handover of site	<p>The time line ammended for 44 months for commissioning of CTM plant is not achievable considering reasons as per Attachment-1 to this query lot. Accordingly OWNER / CIL to confirm handover of site in 3-6 month and Commissioning of 48 month.</p>	NIT condition along with subsequent Amendment shall prevail.

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11	PC176/E/4001/P-II/ SEC-1.1	192 of 726	2.1	Plant Site	As per the referred clause it is mentioned that - "Total land area of the site is 121 acre but 43 acre in 6 patches is available for proposed Coal to Methanol plant. " Bidder has evaluated the plot requirement and it is to be informed that CTM facility will need full 121 acre site considering PESO/OISD regulation , based on the each unit layout inputs from Licensors and several U&O pckgs. It is to be noted that ITB provided layout missed several units which are now incorporated. Hence full site to be handed over as fully graded. BOO processor during execution will take initiative to optimise layout, but during construction few TSF facility etc need to be located as well with in site hence CIL to confirm full 121 acre site will be graded and shall be handed over to BOO processor. BIDDER proposes face to face meeting to explain the Layout requirements	Remaining Land will be made available to the bidder after construction of facilities for supply of coal, water, power & Administrative Building. Further, Bidder to visit the site to ascertain the real available land situation.
12	PC176/E/4001/P-II/ SEC-1.10	309 of 726	3	Construction Power	CIL to confirm unit rate cost or bidder can take INR 5.77/KWH as per the ITB	ITB rate to be considered
13	PC176/E/4001/P-II/ SEC-1.10	309 of 726	3	Construction Water	CIL to confirm unit rate cost	ITB rate to be considered
14	Volume 2 Technical Section 1.1	192	2.1 bullet 4	Existing township, residential houses and other facilities	CIL to confirm rental charges for 2 bhk , 3hk house in township. As of now bidder considers rINR 2000 and 3000 Pm respectively for 2 and 3 BHK	Rates are indicated only. However, firm rate Shall be finalized after award of job
15	General	--	--	Codes & Standards	Bidder understand that all latest standards & codes as on Tender submission date shall be considered. OWNER / PMC to confirm.	Confirmed. However, if any codes & standard changes during the execution of project or during 25 year period of plant life, implementation of the same shall be responsibility of BOO Processor.
16	General	--	--	Drawings & Documents	As a BOO operator, BIDDER shall review and approve supplier's documents. As required, Bidder will submit only the critical documents to OWNER / PMC's information / records purpose only. This needs to be discussed during KOM.	As per NIT & susequent Amendment.
17	PC176/E/4001/P-II/ SEC-1.1	192 of 716	2.1	Plant Site	As per this clause , total land area of the site is 121 acre. As per Coordinates & dimensions provided in Site Plan (Tender page 389 of 726), total plot area is 115 Acres. CIL/PDIL to confirm total area.	As per avilable information total land of the site is 121 acre. However, as per site condition area of site may slightly vary .
18	PC176/E/4001/P-II/ SEC 1.6	231/232 of 726	1	General - Technical Specifications	Further to AP's earlier Query no 21 of TQ-1 , and considering BOO concept, Spare philosophy for equipment sizing.(Transformer, switchboard, UPS, lighting system, etc.) shall be as per Bidder's operational requirements. Below are few of the many clause in Tender where in future spare is expected. Future spare shall not be required considering the plant capacity is fixed and entire plant shall be designed accordingly. a) cl no 5.8 , 30% spare for future addition for all components of electrical system. b) cl no 7.3.2 , 25% Future spare capacity for Transformer sizing. c) cl no 7.5.11, Minimum 25 % spare feeders or one no. of each rating and type on each side of the bus section. d) cl no 7.11.2 & 7.12.7, Battery Charger shall have at least 30% extra capacity for future load requirement and AC UPS shall have 25% spare capacity for future load. e) cl no 7.13.3, Each lighting transformers shall be sized to feed the entire plant normal lighting load with 30 % min spare. CIL / PMC to confirm Bidder's understanding.	Shall be as per NIT.

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19	PC176/E/4001/P-II/ SEC 1.6	231/232 of 726	1	General - Technical Specifications	<p>Further to AP's earlier Query no 21 TQ 1 , BIDDER once again wants to highlight that considering BOO concept, BIDDER standard Philosophy and specification shall be followed along with statutory requirement of local authority. Below are few examples where in major cost impact is expected as per NIT vis a vis AP standard practice.</p> <p>1) Minimum Fault level of switchboards are defined as per cl no 5.11 , however AP intends to provide switchboard suitable for expected fault current based on system study without any minimum binding.</p> <p>2) As per Cl no 8.4.2 , Lux level requirement is mentioned, however AP has standard requirement for lux level considering operation ease and as per AP standard.</p> <p>3) As per Cl no 7.6 , there is a requirement of MMI/SCADA requirement, However as per AP operation philosophy, entire control and monitoring will be through DCS.</p> <p>4) As per Cl no 5.16 Switchboard protection and metering is defined, however AP follows own standard for protection and metering considering operation ease and standardization across all plants.</p> <p>5) As per cl no 5.10 , System study software shall be ETAP, however AP uses SKM power tools for carrying out the system study.</p> <p>6) There are specific requirement for Equipment design, however AP has standard for equipment design based on operational requirement.</p> <p>7) As per cl no 7.18.4 support span for cable trays is 2mtrs, however AP follows 3 mtrs for electrical and 6 mtrs for instrumentation.</p> <p>This request to follow AP standards is inline with provision provided by OWNER / PMC to BOO operator to follow specific requirements based on coal gasification to methanol plant as per Clause 1, VOLUME-II: TECHNICAL SECTION – 1.6 PROCESS DESIGN GUIDELINES Page 231/232 of 726 of tender document. BIDDER assure to follow code & Standard as mentioned in NIT along with statutory requirement of local authority.</p> <p>CIL / PMC to confirm BIDDER's understanding.</p>	Shall be as per NIT.
20	PC176/E/4001/P-II/ SEC-1.10	317 of 726	5.16	132kV Incoming Line Protection	<p>To BIDDER query SL no 26 TQ-1 " BIDDER understands that 132kV incoming line protection (i.e. distance or differential protection) related engineering and hardware (i.e. relays and communication cable) at both sending and receiving end shall be by others.</p> <p>OWNER / PMC to confirm our understanding. " , OWNER/CIL has replied</p> <p>"132kV incoming line protection (i.e. distance or differential protection), related engineering and hardware (i.e. relays and communication cable) at both sending and receiving end shall be in BOO Operator's scope."</p> <p>BIDDER would like to clarify that scope of incoming 132KV transmission line is by OWNER/CIL and outside battery limit, hence any Engineering, hardware or cable for Owner's/ Other's transmission line protection shall not be part of BOO contractos scope.</p> <p>Further if any relays is required within BOO contractor battery limit, same shall be informed in addendum to be estimated as part of BID .</p>	As 132 kV Switchyard is in BOO Operator's scope, the 132kV incoming line protection, related engineering and hardware at both sending and receiving end shall be in BOO Operator's scope.
21	PC176/E/4001/PII/ SEC-1.7	250 of 726	Clause 2.6	Nozzle flanges up to 600 NB shall be as per ASME B16.5 and above 600 NB shall be as per ASME B 16.47 (SERIES 'B') except that for high pressure	<p>Series A will be followed above 600 NB. Series A flanges are stronger & can handle more external loading than Series B.</p> <p>Same has been discussed during November pre-bid meeting.</p>	Noted and accepted.
22	PC176/E/4001/PII/ SEC-1.7	251 of 726	Clause 2.9.1	Non-extended tubesheet for floating head and U tube exchangers.	<p>AP may use extended or non extended tubesheet subjected to licensor requirements or the type of HE, In general extended tube sheet for floating & U tube HEs are better from hydrotesting point of view.</p>	Noted and accepted as per licensor requirement.
23	PC176/E/4001/PII/ SEC-1.7	259 of 726	Annex 1, Cl 8	All pipes shall be of seamless construction.	<p>Nozzle pipe up to 12"NB shall be seamless. For nozzles, greater than 12"NB seamless pipe is preferred or from rolled plates and welded with 100% radiography of the weld seams.</p>	Noted and confirmed.
24	PC176/E/4001/PII/ SEC-1.7	259 of 726	Annex 1, Cl 11	All tubes shall be of seamless construction.	<p>CS/LAS tubes shall be seamless. Stainless steel or high alloy steel tubes may be longitudinal welded.</p>	Not accepted. All tubes shall be of seamless construction as

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25	Amendment VIII - Technical	15 of 22	19	As-Built drawings	<p>1. Based on the revised table, PFD and material balance shall be submitted along with the bid. Previously the material balance was not required. Client / PMC is requested to allow bidder to provide HMB at later stage and NOT along with bid as it may change based on internal calculations.</p> <p>2. Client is requesting to issue some documents viz PFDs for review as well as for information. Both cannot be done simultaneously. Client is requested to update the table accordingly.</p> <p>3. Bidder will be submitting 'A write-up explaining the configured plant and how various demands will be met'. This document will briefly explain the basis for each unit. Bidder request client / PMC to relook the requirement of separate design basis in lieu of #5 document in the table.</p> <p>4. Flare load calculations are generally done in PDP / BED phase. It is not possible to provide it along with bid. Client / PMC is requested to consider the same.</p> <p>5. Bidder feels that the requirement of providing confirmed utilities (all) is not possible along with bid as it will require a detailed study and heat integration which will be performed in PDP/BED phase after award. The confirmed utilities supplied by client (Raw water and power) can be mentioned with possible envelope of consumption along with the bid. Client / PMC to confirm.</p> <p>6. Process description will be part of #5 i.e. write up explaining configured plant. Bidder request Client / PMC to remove separate process description document at bid stage.</p>	NIT condition along with subsequent Amendment shall prevail.
26	PART II: TECHNICAL SECTION-: 1.1 PART II: TECHNICAL PC176/E/4001/P-II/SEC-: 1.13	7 OF 7 4 OF 14	2.3.12 3.1	Other facilities available in DCC. Coal/Fluxant handling	<p>a) As per the referred clause: "Other facilities available in DCC. (BOO Operator may review for possible utilization (if any) and interact with Owner regarding any clarifications if required.)Railway Line for transportation."</p> <p>b) As per the referred clause: "Scope of bidder shall start from track hopper."</p> <p>BIDDER'S Query: Bidder understand that rail on track hopper as well as modification in railway siding is in Owner's scope based on proposed track hopper arrangement. Owner is requested to confirm bidder's understanding. Further, Owner is requested to provide the elevation of Top of rail to be considered on Track hopper.</p>	Any modification work which is required for completion of job shall be under the scope of bidder