

REPLIES TO PRE BID QUERIES LOT-2 DATED -04.08.21

NIT NO : PNMM/PC-183/E-4009/NCB

SUB : COAL/PETCOKE/LIMESTONE HANDLING FROM RAILWAYS LIDING TO STORAGE YARD ON LSTK BASIS

S.NO	SECTION NO.	PAGE NO.	CLAUSE NO.	SUBJECT	PRE BID CLARIFICATIONS	PDIL REPLY
II Technical NIT						
1	PC183-4009-P-VI/3.1.2	Page 13 of 14	Clause-3.7	LSTK Contractor /Packager to provide EOT Cranes of 20T/6T capacity in various Pump Houses, Compressor & Fan/ Blower House and other location wherever required for ease in operation and maintenance activities	From our earlier experience we have seen maximum 7.5T electric hoist is sufficient for pump house and compressor. Here you have asked for 20T/5T EOT crane. Is it a mandatory requirement? Please confirm.	For wagon tippler, LSTK Contractor /Packager to provide EOT Cranes of 20T/6T capacity . however for pump and compressor house 7.5T electric hoist to provided as per the contractor / packager's experience. Amendment shall be issued.
2	PC183/4009/SecVI /3.4	Page-20 of 37	Clause no-2.15	REMOVAL OF UNDERGROUND AND ABOVE GROUND STRUCTURES: All underground facilities /structures shall be demolished /removed by the Contractor provided removal of former will not disturb the functions of existing plant. Rerouting of cables / pipes etc. encountered during excavation in the plot shall be	Refer to the clause we understood the re-routing/demolish of existing underground structure/cables/pipes if found necessary during construction of proposed facility will be in bidder's scope. Now at this stage we are unable to understand the underground facilities even during site visit we it is not possible to assess the involvement of re-routing of underground facilities. As such we propose that modification/re-routing of any under-ground facility will be done by the bidder with additional price implication as per mutually agreed rates.	We are not anticipating any existing underground utilities in this area. However, if any existing underground utilities are found during construction work, Then demolition / modification / relocation will be mutually discussed and agreed upon. It is further clarified that in the event, Contractor encounters any underground obstruction which entails cost implications to Contractor, the owner may consider to compensate the contractor a reasonable cost compensation. The decision of the Project Manager in this regard shall be in writing and shall be final and binding upon the Contractor. It is clarified that in case the contractor disagrees with the decision of the Project Manager, the dispute shall be settled as per the provision of clause 39.0 of GCC, without any change in time schedule. No cognizance of the submitted drawings shall be taken during tender stage. The same shall be finalized during detailed engineering post award.
3	PC183/4009/SecVI /3.4	Page-21 of 37	Clause no-2.19.1	Scope work includes in outside battery limit area, if any civil & structural work required for completion of work	Generally Bidder's scope limited within battery limit. Kindly clarify bidder's scope outside battery limit.	Bidder's understanding is correct. e.i Bidder's scope is limited within battery limit.
4	Section IV - 1.0,	Page 27 of 746	10.1.4	Motor kW	Margin on Motor kW is not mentioned. We assume there is no margin on calculated motor power kW.	As per NIT. Refer clause 9.5.3 of Design Philosophy - Electrical (SecVI-3.3).
5	Tech NIT 4of4	-	-	Location of MCC Building & Pump House not mentioned in the Plot Plan.	Please mention the location of MCC Building & Pump House in the Plot Plan.	Refer Plot Plan for location of Substation for subject Package and OUSS. For Pump House, to be informed during detailed engineering.
6	-	-	-	Tapping Point of water System & Electrical.	Please mention the location of MCC Building & Pump House in the Plot Plan.	Refer Plot Plan for location of OUSS for tapping point of Electrical Power and Substation near 132 kV Switchyard for Construction Power. For Construction Water, to be informed during detailed engineering.
7	-	-	-	-	What is the FGL of the plant	The terrain is graded and FGL is varying for different units as per grading requirement, FGL and Highest Point of Paving (HPP) shall be finalized by the CONTRACTOR in consultation with OWNER / PMC during detailed engineering. The proposed FGL of the Coal/petcoke handling unit is 95.450. However, this is tentative only and shall be finalized by the CONTRACTOR in consultation with OWNER / PMC during detailed engineering
8	-	-	-	Road & Drain	We consider no road & drain in bidder's scope.	Road & drain within Battery limit and its inter-connection with nearest road & drain upto Battery limit is in the Contractor's scope.
9	SECTION VI-- 3.1.4	156	ENGINEERING SPECIFICATION--PIPING	1.0 GENERAL PIPING SCOPE OF WORK 1.1 The detail scope of work includes such as but not limited to complete management, Design, Detailed Engineering, 3D modelling, Stress Analysis, to provide all the necessary data, drawings, documents required as per the project requirements,	Normally, this clause is applicable for Boiler piping and we shall not provide for system utilities like DSS, SWS, DWS & SAS etc. Please Confirm.	This is General Clause, what ever applicable shall be applied to bidder's scope of work.
10	SECTION VI-- 3.1.4	162	PIPING MATERIAL SPECIFICATION	Service Index (SI) of Piping Material Classes - Piping Material	As per Your Index you have not indicated by Piping material for DSS, SWS, FFS & SAS. Please confirm.	Refer Piping material specification B24 for DSS,SWS,&SAS. However, for FFS refer Piping material specification B22IS.
11	SECTION:VI- 3.3	419	DESIGN PHILOSOPHY -- ELECTRICAL	3.3 Zones-1 & 2	Please specify the Zone details clearly in Conveyor Layout.	Zone 22 for coal dust.
12		431	Conveyor Layout Plot Plan	Pump House for DS,SW,DW, SAS House, Control Room, Fire Fighting ,Pump House, Water Reservoir	We are Not finding the location of these items. Please Confirm.	All utilities shall be provided at single point basis at the Battery Limit of Bidder's scope of work. Bidder to Design system accordingly.
13		438	P& I Drawing	Pump House	Please confirm the inlet terminal point clearly	Tie-in points shall be provided during Detail Engineering.
14		438	P& I Drawing	Pump House	Please provide the Fire Fighting system P&I drawing and Water Tapping Points	Tie-in points shall be provided at the Battery Limit of Bidder's scope of work during Detail Engineering.

15	PC183/4009/SecVI / 3.4	Page no. 69 of 554	3.2 / 3.2.4	The floor of conveyor gallery all along the gallery length, shall be provided with minimum 12 gauge thick seal plates and other drainage arrangements as specified elsewhere	We suggest to provide a seal plate at every road and building crossing only. Kindly Confirm	As per NIT
16	PC183/4009/SecVI / 3.4	Page no. 292 of 554	3.4/Annexure G	Topographical Survey drawing	General Land Development Plan is given, the drawing given in this page is regarding the layout of plant and proposed levels. Request you to share the Topographical Survey levels	The Successful bidder shall be provided fairly graded ground level. Hence, We do not envisaged the requirement of Original topographic survey drawing.
17	PC183/4009/SecVI / 3.4	Page no. 56 of 554	2.5	Temporary Site Buildings and Facilities	The scope mentioned is for the execution of works and the offices are contractors/bidders related manpower. The site office for the client is not under this scope of contract, please confirm.	Confirmed.
18	PC183/4009/SecVI / 3.4	Page no. 137 of 554	Section 8.1 of Annexure A	Annexure A: Civil & Structural Design Basis, Page A57 of A59	OPC 53/43 Cement is recommended. Request you to provide approval for the usage of Flyash/GGBS based concrete or PPC cement usage alternatively.	As per NIT
19	PC183/4009/SecVI-3.3	Page no. 419 of 746	3.0 AREA CLASSIFICATION	The hazardous zones within the project area shall be classified according to the requirement of IS/IEC	We presume complete fuel handling system is in non hazardous area, and accordingly we have not considered any flameproof motor / actuator for complete fuel handling system and its associated equipment's. Kindly Confirm	For coal dust kindly consider zone 22 temperature class T3.
20	PC183/4009/SecVI-3.3	Page no. 408 of 746	1.2.2-V	Cable trench/Cable tray with supporting structure	For the laying of main incoming 11KV power supply cables from existing HT panel, we have utilised existing cable rack for new tray installation purpose. Kindly confirm	Owner's Pipe Racks may be used for Cable Trays. Bidder to consider cable trays in their scope. However, in case Owner's pipe rack is not available, Bidder shall provided structural support for cable trays also.
21	PC183/4009/SecVI-3.3	Page no. 408 of 746	1.2.2-w	Substation alongwith Transformer Rooms.	We have considered all transformers except Lighting Transformer shall have oil fill outdoor mounted type. Any room is not required and not considered.	Transformer shall be Outdoor Type, as per NIT. Transformer Room as per clause 6.17 of Design Philosophy - Electrical. (Sec VI-3.3).
22	PC183/4009/SecVI-3.3	Page no. 409 of 746	1.5	Normal power supply shall be tapped from 2 Nos. 11KV feeders at Owner's Offsite & Utilities Substation (OUSS) and further distribution shall be in LSTK Contractor's scope	Client to provide the following details to consider the same in our scope.	During detailed engineering.
					i) Breaker feeders in existing switchgear is not in our scope. Kindly confirm.	During detailed engineering.
					ii) Make and Model no. of existing 11KV switchgear	During detailed engineering.
					iii) Bus bar, tie Breaker and CT rating	During detailed engineering.
					iv) If any additional relay / meter modification requirement in existing switchgear	During detailed engineering.
					v) Panel room layout and location of existng building	During detailed engineering.
23	PC183/4009/SecVI-3.3	Page no. 410 of 746	1.11	For control, monitoring, load management, data logging and printing of status of all important electrical equipment and feeders, a Programmable Logic Controller (PLC) / RTU based Electrical Control and Monitoring System (ECMS) shall be provided by Electrical Distribution System (EDS) LSTK Contractor.	We understand that the LMS and ECMS are not in coal / limestone / Petcoke handling EPC bidder scope. Kindly confirm.	Noted. However, separate Room for ECMS Equipments etc. shall be provided in Substation.
24	PC183/4009/SecVI-3.3	Page no. 425 of 746	6.14	The cable gallery shall have a minimum clear height of 2.2 M (i.e. lowest cable tray should run at a height of 2.2 mtr. from finished floor level of cable cellar) and shall be closed on all 4 sides with two entries, preferably on opposite sides.	For off site package substation, we have considered all MV / LV switchgear located at Ground floor with cable trench arrangement. Kindly confirm.	Substation shall be as per NIT.
25	PC183/4009/SecVI-3.3	Page no.426 of 746	6.2	Generally the following norms shall be maintained for 11 KV/3.3 KV/415 V Switchboards:	We have considered clearance of switchboard installation shall be considered as per CEIG approved norms based on relevant IS.	As per NIT.
26	PC183/4009/SecVI-3.3	Page no. 438 of 746	9.4.1.12	All Feeders of 220KV, 33KV & 11 KV shall have Double Trip coil for safety.	220KV, 66KV and 33KV is not applicable for this project.	Noted.
27	PC183/4009/SecVI-3.3	Page no. 432 of 746	26	The relays for outdoor 66 kV EHV switchyard shall also be of numerical type with communication facility.		Noted.

28	PC183/4009/SecVI-3.3	Page no. 438 of 746	9.4.1.25	The busbars and connection shall be made of electrolytic grade copper only. Aluminium busbars are not acceptable. All busbars of 11kV & 3.3kV switchgear including bus duct shall have Raychem sleeving.	We have considered all MV panel & bus duct bus bar shall be Aluminium. Kindly confirm	As per NIT.
29	PC183/4009/SecVI-3.3	Page no. 442 of 746	9.4.1.71	The control compartment and power compartment shall be separate.	Noted and confirmed for HV / MV panel. For LV panel, based on the OEM type tested design the same is not applicable. Kindly confirm.	As per NIT.
30	PC183/4009/SecVI-3.3	41 Of 84 (sheet 442 of 746)	9.4.1.79	All 11kV, 3.3. kV and 415 V Switchboards shall preferably be of same make for ease of operation & maintenance.	We have considered group of all 11KV & 3.3KV panel shall be same make and the group of all LV PCC / MCC / PMCC shall be same make. Kindly confirm.	Noted.
31	PC183/4009/SecVI-3.3	Page no. 447 of 746	9.5.17	Motor rated above 30 KW shall have on line greasing provision and for motor rated above 45 KW, grease outlet feature shall be provided.	The same shall be as per OEM standard. Kindly confirm.	As per NIT.
32	PC183/4009/SecVI-3.3	Page no. 452 of 746	9.9.8	The VFD shall be provided with Input and Output transformer. To prevent harmonics in the station supply 12 pulse rectifier shall be deployed at Input of the VFD.	For LV VFD, rating upto 150KW shall be considered 6 pulse type and above 150KW shall be considered 12 pulse type. Kindly confirm.	As per NIT.
33	PC183/4009/SecVI-3.3	Page no. 453 of 746	9.12	Conduits	Conduit shall be considered indoor building lighting circuit only. Kindly confirm.	Noted.
34	PC183/4009/SecVI-3.3	Page no. 453 of 746	9.13.1	Bus-Duct The bus bars and connection shall be made of electrolytic grade copper only. Aluminium busbars are not acceptable.	We have considered all bus duct bus bar shall be Aluminium. Kindly confirm	As per NIT.
35	PC183/4009/SecVI-3.3	Page no. 456 of 746	10.1.4	Power cables with conductor size upto and including 16 sq. mm shall be with copper conductor, conductor size 35 sq. mm and above shall be aluminium conductor.	We have considered all power cables upto 16sq.mm copper conductor above 16Sq.mm aluminium conductor. Kindly confirm	As per NIT.
36	PC183/4009/SecVI-3.3	Page no. 460 of 746	11	ILLUMINATION SYSTEM	illumination shall be considered within our battery limit only. Also illumination for non plant building / client / others supplied area, compound wall are not considered in our scope.	Noted. Illumination along Conveyor shall also be in Bidder's scope.
37	PC183/4009/SecVI-3.3	Page no. 466 of 746	12.1.2	Common underground earthing grid shall be provided covering sub-stations and plants which is further connected to overall Earthing Grid. The overall earth resistance (dry) shall be limited to 1 ohm.	Kindly provide the soil resistivity for proposed steam generation area.	kindly refer attached Soil Investigation Report carried out for Coal gasification within complex area with the tender for soil resistivity. This is indicative only and is enclosed purely for information/ guidance purpose to the bidder.
38	PC183/4009/SecVI-3.3	Page no. 532 of 746	5.1.2	Medium Voltage switchgear The complete assembly shall be dust, damp and vermin proof having minimum degree of protection equivalent to IP-52 as per IS/IEC:60947.	As per tender design philosophy of Electrical Cl. No. 9.1.6 page no. of 34 of 86, Enclosure protection of all MV Switchgear shall be rating upto 1600A shall be IP 52 and above 1600A shall be IP42.	Design Philosophy - Electrical. (Sec VI-3.3) shall prevail.
39	PC183/4009/SecVI-3.3	Page no. 633 of 746	3.1	Ladder type cable racks shall be fabricated as per attached Drawing Nos. PDS: E 530 to PDS: E 538 (9 Sheets).	We understand that the all cable trays shall be bolted type construction and support structure shall be welded type construction Kindly confirm.	As per NIT.
40	PC183/4009/SecVI-3.3	Page no. 410 of 746	1.8	1 No. 415 V Feeder (400 A) at Existing Substation near 132 KV Switchyard shall be made available by Owner for Construction Power. Tapping of Construction Power (on chargeable basis) 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 .	We request construction power to be provided by owner for free of cost	On chargeable basis as per NIT.

41	PC0183/4009/SecV I/3.2	Page no. 344 of 746	7.18 Rip Detection	At least one String Type Rip Trip Switch and one Pan Type Rip Trip Switch shall be present halfway between two idler frames, immediately after the load point on each conveyor. At least one String Type Rip Trip Switch shall be present over the tail pulley and over a head end bend pulley. All belts shall include embedded rip detection sensor loops. The distance between sensor loops shall not exceed 100 m	We suggest to only provide string type switch 1 no. at tail end and 1 no. at head end. Which shall eliminate embedded rip detection sensor loops from the belt. Kindly Confirm	Kindly follow NIT requirement
42	PC0183/4009/SecV I/3.2	Page no. 346 of 746	7.25 Additional Instrumentation	Additional points which will be monitored by the PLC may include Pulley bearing temperature Pulley bearing vibration Gear reducer vibration	Temperature sensors for Pulley bearing and Vibration sensor for pulley and gear reducer is not required and the same is not considered.	Noted, to be discussed during detail engineering
43	PC0183/4009/SecV I/3.2	Page no. 324 of 746	3.8	The Complete DCS/PLC control system..//	Bidder considered that, the complete proposed MH plant shall be controlled and monitored from package PLC system as per the annexure-3 system configuration. We have not considered DCS. Please confirm.	Noted.
44	PC0183/4009/SecV I/3.2	Page no. 325 of 746	3.13	1 no. OS will be placed in the COAL GASIFICATION Control room.	Bidder requested to furnish the cable route distance from MHP CR to GASIFICATION CR for our estimation purpose.	kindly refer overall area plot plan for cable route distance.
45	PC0183/4009/SecV I/3.2	Page no. 325 of 746	3.15	RIO shall not be considered anywhere in the package.	If the cable route distance is exceed 600 mtrs, the RIO shall be located near to Transfer House for FO interfacing to package PLC. Please confirm.	Kindly follow NIT requirement
46	PC0183/4009/SecV I/3.2	Page no. 355 of 746	9.3.2	Bidder shall provide the Sequence of event recorder function, with a time resolution not above the machine scanning time. This information shall be available, for archiving, filtering and visualization operations to the dedicated SOE workstation, located on the consoles of Engineering room in CR, to aid in diagnosis and recognise the first cause of plant or equipment shut-down.	As per Annexure-3, System configuration, this clause is contrary. Bidder is considering that" 1 Nos OS cum ES with SOE" instead of dedicated SOE workstation. Please confirm.	Dedicated SOE workstation is not required. Bidder to consider 1 NO OS CUM ES with SOE features
47	PC0183/4009/SecV I/3.2	Page no. 356 of 746	9.3.3	The PLC control system clock shall have facility for synchronising with a Main plant DCS through hardwire DI signal. Bidder shall consider Ethernet port/TCP/IP for synchronising to Master GPS clock. Additional hardwired or communication connections / networks between PLC/DCS control system and Main plant DCS shall be consider by the bidder.	Bidder understand that, the GPS slave clock (SNTP) shall be shared from the Main plant DCS (Customer scope) to package PLC for time synchronisation. Please specify the cable route distance for our estimation or indicate the main plant DCS in the layout.	kindly refer overall area plot plan for cable route distance (From MHP CR to Coal Gasification DCS).Main plant DCS shall be the Coal Gasification DCS.
48	PC0183/4009/SecV I/3.2	Page no. 370 of 746	15.0	LOCAL AREA NETWORK (LAN) FOR CR: Switch shall have with 4 redundant Fibre optic port. One redundant Fibre Optic Port shall be used for connection to main Plant LAN switch/servers.	Bidder understand that, for LAN system the required L2 switches with FO port connectivity at MHP control room is in Bidder scope, further cabling and communication establishment to plant LAN switch/server by CUSTOMER scope of work. Please confirm.	All shall be in Bidder scope.
49	PC0183/4009/Sec VI/3.1.1	Page no. 21 of 746	8.0 DESCRIPTION OF THE SYSTEM	Minimum Flow path/ assumed continuous running equipment to arrive guaranteed power consumption with handling coal form shall be considered as follows:- Conveyor BC-1A, BC-1B, BC-2A, BC-2B, BC-3A, BC-3B, BC-4A, BC-4B, BC-5A, BC-5B, BC-6A, BC-6B, Wagon Tippler WT-1 with side arm charger SAC-1, Apron Feeder AF-1	We presume complete fuel handling stream shall be 1W+1S and accordingly power consumption shall be defined. Kindly Confirm.	In this system, BOXN and BOB type wagon may unload simultaneously. In that case one stream run for Wagon tippler and other stream run for track hopper. Therefore Minimum Flow path/ assumed continuous running equipment to arrive guaranteed power consumption with handling of coal shall be considered as follows:- Wagon Tippler WT-1 with side arm charger SAC-1, Apron Feeder AF-1 with dribble conveyor, Paddle Feeder (PF-1 & PF-2) or (PF-3 & PF-4), Conveyor BC-1A/BC-1B, BC-2A/BC-2B, BC-3A, BC-3B, BC-4A, BC-4B, BC-5A, BC-5B, BC-6A, BC-6B, Inline Magnetic Separator ILM-1, ILM-2, all Dry Fog Dust suppression system and all Ventilation system.

50	PC0183/4009/Sec VI/3.1.1	Page no. 19 of 746	5.0 INCLUSIONS	Supply and Laying of Rail and Rail Fixing arrangement for EOT cranes, Hoist mono rail	We presume supply and laying of rails for track hopper, wagon tippler and side arm charger and its Interconnection to the existing Railway line along with signaling, OHE etc is excluded from our scope. Kindly Confirm	Supply and Laying of Rail and Rail Fixing arrangement for EOT cranes, Hoist mono rail is in Bidder's scope. supply and laying of rails for track hopper, wagon tippler and side arm charger and its Interconnection to the Railway line along with signaling, OHE etc is not in Bidder's scope.
51	PC0183	Page no. 38 of 746	DATA SHEET: BELT CONVEYOR	Type :- Self aligning return idler Spacing, mm :-10000mm	As per section 10.1.6, we have considered spacing of self aligning return idler as 30Mtr. Kindly Confirm	Self-aligning training idler spacing to be considered as maximum 15m for carrying side & maximum 30m for return side. Data Sheet of Belt Conveyor shall be modified. Amendment shall be issued.
52	PC0183/4009/Sec VI/3.1.1	Page no. 28 of 746	10.1.6 Idlers	Self-aligning (training) idler spacing to be considered as – max. 15m for carrying side & max. 30m for return side		
53	PC0183	Page no. 54 of 746	DATA SHEET: WAGON TIPPLER	Type of drive arrangement:-Hydraulic motor	We recommend wagon Tippler with electro-mechanical drive and hydraulic clamp. Kindly Confirm	As per NIT.
54	PC0183/4009/Sec VI/3.1.1	Page no. 8 of 746	8.0 DESCRIPTION OF THE SYSTEM	Total 4 number paddle feeders (PF-1,PF-2,PF-3,PF-4), each of 1000 TPH rated capacity /1200TPH design capacity	Plough feeder shall be feeding to BC-1A/B, so we presume capacity of BC-1A/B shall also be 1000 Tph rated / 1200 Tph design. Kindly Confirm	Paddle feeder PF-1 and PF-2 shall feed Conveyor no. BC-1A and Paddle feeder PF-3 and PF-4 shall feed conveyor no-1B. Conveyor capacity 1A, 1B is 1250 Tph (Rated)/1500 Tph (design) and capacity of each Paddle feeder is 1000 TPH (rated)/1200TPH (design) . Both PF-1 and PF-2 shall feed 2000 tph (rated capacity) to conveyor . To control flow rate of raw material, VFD drive shall be provide in Paddle feeder.
55	PC0183	Page no. 36 of 746	DATA SHEET: BELT CONVEYOR	Conveyors: - BC-1A/1B Capacity (Design) - 1500 Tph		
56	PC0183/4009/Sec VI/2.0	Page no. 10 of 746	1.0 CONTRACTOR'S GENERAL SCOPE OF WORK	Obtaining all necessary statutory approvals (if applicable)	Approvals from statutory bodies shall be carried out by Client, however we shall provide required input documents for approvals, please confirm.	NIT condition preveales (Please refer clause no.1.1.5 under CONTRACTOR'S OBLIGATIONS of SCC).
57					Whether Paddle feeder is a part of track hopper.	
58					Bore holes data given is not falling in the layout.	The Soil Investigation Report carried out for Coal gasification, AU plant within complex area is enclosed with the tender. This is indicative only and is enclosed purely for information/ guidance purpose to the bidder. However, Bidder shall make his own assessment for the type of foundations envisaged based on his site visit and data collected from site during the site visit. In any case, the successful bidder has to carryout detailed Soil investigation after the award of contract and submits Soil investigation report with recommendations for Owner's review and approval.
59					Electrical substation location and feeder details.	Please refer Plot Plan. Tentative location of Substations indicated.
60					Control room location not known.	To be finalised during detail engineering.
61					As per the process flow material will be receiving either by wagon tippler or by Track hopper arrangement. Now for calculating/reaching the power consumption value which path shall we have to consider.	Both path shall be considered by Bidder.
62					Please confirm that power consumption will calculated on rated capacity or design capacity?	Power consumption will be calculated on design capacity.
63					For calculating the total power consumption we will consider the equipments under working condition only. Shall we have to consider auxiliary equipment (like Flap gate, Suspended magnet, ILMS, Utility system, Sump Pump while calculating the total power consumption?	Minimum Flow path/ assumed continuous running equipment to arrive guaranteed power consumption with handling of coal shall be considered as follows:- Wagon Tippler WT-1 with side arm charger SAC-1, Apron Feeder AF-1 with dribble conveyor, Paddle Feeder (PF-1 & PF-2) or (PF-3 & PF-4), Conveyor BC-1A/BC-1B, BC-2A/BC-2B, BC-3A, BC-3B, BC-4A, BC-4B, BC-5A, BC-5B, BC-6A, BC-6B , Inline Magnetic Separator ILMS-1, ILMS-2, all Dry Fog Dust suppression system.
64					We understand that entire coal handling plant may be considered as safe zone and all equipment will be designed for safe zone only. Client to confirm.	and all Ventilation system.

65					If bidder faces any obstruction during underground work, the bidder needs to take care of it. For any major obstruction having significant cost and time implication, TFL may compensate the bidder. For any minor obstruction, Bidder has to do at their own cost. However, Clear demarcation is sought from PDIL regarding the definition of SMALL & BIG JOB and how to calculate the compensation related to cost & time.	It is further clarified that in the event, Contractor encounters any underground obstruction which entails cost implications to Contractor, the owner may consider to compensate the contractor a reasonable cost compensation. The decision of the Project Manager in this regard shall be in writing and shall be final and binding upon the Contractor. It is clarified that in case the contractor disagrees with the decision of the Project Manager, the dispute shall be settled as per the provision of clause 39.0 of GCC, without any change in time schedule. No cognizance of the submitted drawings shall be taken during tender stage. The same shall be finalized during detailed engineering post award.
66					1. Design and Rated Capacity : As per proposed system conveyors are carrying three types of material namely, Coal, Pet Coke and Lime Stone and the conveying capacity is 1250(rated)/1500(design)TPH for all the three materials. Belt width given in the data sheet 1400mm and belt speed-2.5mtr/sec. With the given parameter considering 80% filling factor we are unable to achieve the design capacity of 1500TPH with the lighter material having bulk density of 0.8T/cum. To achieve the design capacity, we have to increase the belt speed to 3mtr/Sec while conveying coal. However other parameters will remain un-altered. Accordingly, we have to do the drive selection. Kindly look into the matter and advise.	Refer lot-1 Pre bid query reply no 61.
67					3. VFD for Apron Feeder and Paddle Feeder : For the proposed system three different type of material (Coal/Pet Coke/Lime Stone) will be received at Wagon Tippler area or else at Track Hopper area. From there material (Coal/Pet Coke/Lime Stone) will be conveyed onward through various conveyors. Since different material has different bulk density, hence to maintain a constant capacity of 1250/1500TPH we have to vary the speed of Apron Feeder at wagon tippler hopper as well as we have to vary the speed of rotary blade of paddle feeder machine to get the desired conveying capacity. Hence, we have to consider VFD drive for Apron Feeder as well as for Paddle feeder Machine. Kindly advice.	confirmed.
68					5. Capacity of Paddle feeder : At track hopper area capacity of each Paddle Feeder- 1000(Rated)/1200(Design)TPH. But the onward conveying capacity is 1250/1500 TPH. Please confirm whether the conveyor from track hopper will run at under rated capacity of 1000TPH or else we have to consider the capacity of paddle feeder as 1250/1500 TPH.	Paddle feeder PF-1 and PF-2 shall feed Conveyor no. BC-1A and Paddle feeder PF-3 and PF-4 shall feed conveyor no-1B. Conveyor capacity 1A, 1B is 1250 Tph (Rated)/1500 Tph (design) and capacity of each Paddle feeder is 1000 TPH (rated)/1200TPH (design) . Both PF-1 and PF-2 shall feed 2000 tph (rated capacity) to conveyor . To control flow rate of raw material, VFD drive shall be provide in Paddle feeder .
69					7. Slope of Rail for Side Arm Charger at In-haul and Out-Haul: Please indicate the slope of rail for movement of SAC at In-Haul and Out-Haul.	To be provided during detail engineering.
70				Following raw material & utility piping lines shall be made available to the contractor/bidder at one point of battery limit (at the edge of each block) of wagon tippler complex ,track hopperbuilding, transfer towers; further distribution to the required location considering attached pipingspecification shall be under scope of contractor / bidder. Contractor/Bidder has to suggestlocation of the same.	From clause no. PC0183/4009/Sec VI/ 2, Rev.-0 Sheet-4 of 3 Clause No - 1.iii., we understand that, water/ instrument air (drinking water, service water, instrument air, cooling water, fire water , service and plant air) at desired pressure shall be made available at terminal points i.e. near of each block (wagon tippler complex, track hopper complex and each transfer towers). Bidder shall not consider any booster pump or compressor and pump/ compressor house for utility systems. However, clause no. PC0183/4009/Sec VI/ 2, Rev.-0, Sheet- 20 of 33 Clause No - 10.4.i again depicts regarding terminal point which is contradicting with above clause. Sheet- 20 of 33 Clause No - 10.4.i, represents that, terminal point shall be provided at one point in coal handling plant. To adhere this clause we have to consider storage tank, pump compressor house near terminal point. Please confirm which clause to be considered regarding terminal point of utility system	Following utility piping lines shall be made available to the contractor/bidder at one point of battery limit of Coal Handling plant, further distribution to the required location shall be under scope of contractor/bidder. a) Drinking Water b) Service Water c) Cooling water, if required d) Instrument Air e) Service air as mentioned above (complete piping scope from compressor to required location) f) Fire Water

71					<p>As per said clause under heading DE-dusting system, requirement of dust suppression system is mentioned. Please confirm whether the dust extraction system shall be applicable for wagon tippler complex and track hopper complex as marked in flow diagram or we have to consider DFDS system for complete coal handling system.</p>	<p>Bidder to consider DFDS system for complete Coal Handling system.</p>
72					<p>We understand main fire alarm panel shall be same for complete plant and under the scope of client / purchaser. Bidders scope is only integration of local panel (provided by bidder at each location wherever required) with the main panel. Kindly confirm the location of main fire alarm control panel in plot plan.</p>	<p>Fire Detection & Alarm System for Plant including FACP, Repeater Panel etc. and Interface & Seamless Integration same with Centralised Fire Detection & Alarm System, as per NIT shall be in Bidder's scope. For interface with Centralised System, please refer Fire Station location indicated in Plot Plan.</p>