NIT N	REPLIES TO PRE BID QUERIES LOT-1 DATED -23.7.21  IIT NO : PNMM/PC-183/E-4009/NCB								
				G TO STORAGE YARD ON LSTK BASIS					
	SECTION NO.	PAGE NO.	CLAUSE NO.	SUBJECT	PRE BID CLARIFICATIONS	PDIL REPLY			
	Technical NIT SECTION VI-2.0	11	SCOPE OF WORK	1.0 CONTRACTOR'S GENERAL SCOPE OF WORK Cooling water Scope in Contractor scope	Cooling water is Not applicable since all equipment's are Air Cooled Only. Please confirm.	Raw material and utility shall be made available to the contractor/bidder at only one point of battery limit of wagon tippler complex ,track hopper building, transfer towers; further distribution to the required location considering attached piping specification shall be under scope of contractor/bidder if required.			
2	SECTION VI-2.0	60	DESIGN PHILOSOPHY – ROTATING EQUIPMENTS	DESIGN PHILOSOPHY FOR MACHINERY	We Shall follow the Specification for our related Equipment's only	For all rotaing euipment, design philosophy for Machiney euipment shall be followed.			
3	SECTION VI- 3.1.3	78	DESIGN PHILOSOPHY-STATIC EQUIPMENT	DESIGN PHILOSOPHY FOR STATIC	We Shall follow the Specification for our related Equipment's only	As per NIT			
4	SECTION VI-3.2	324	CONTRACTOR SCOPE OF WORK - INSTRUMENTATION	3.8 The Complete DCS/PLC control system i.e. Marshalling panels, Cabinets (System, I/O, PDB, IRP etc.) HMI/Consoles, printers, furniture etc. for the above package shall be housed in the new air conditioned control room for this package.  Construction of Substation cum Control room with HVAC (Control room) shall be in bidder scope.	Please provide the location Substation cum Control room and also confirm the type of HVAC(Dry/Wet Type)	Location of the "Substation cum Control room shall be near Wagon tippler. Location marking to be proposed by the bidder within the designated battery limit of the package . The same to be reviewd and finalised by TFL/PDIL during detail engineering.HVAC type is not in scope of Instrumentation discipline.			
5	SECTION VI-3.2	325	CONTRACTOR SCOPE OF WORK - INSTRUMENTATION	3.13 1 no. OS will be placed in the COAL GASIFICATION Control room	Please confirm the purpose of locating the OS in COAL GASIFICATION Control room and whether it is Engineering work station/Operating Work Station	Purpose of locating the OS in coal Gasification (CG) control room is for viewing Purpose only. This shall be Operator work station			
6	SECTION VI-3.2	325	CONTRACTOR SCOPE OF WORK - INSTRUMENTATION	3.16 Package Unit PLCs: Bidder to provide PLC with redundancy at all levels and with latest model. It shall have provision to communicate with main DCS system (Coal gasification control room) through Modbus protocol/ OFC in redundant mode. Overall plot plan elsewhere attached with Tender to be referred by Bidder for determining distances and proposing cable routings. Main programmable Logic controller based system for the package including marshalling cabinets, relay cabinets, MCC Interface cabinets, power supply distribution cabinets, instrument isolator, alarm cards, terminals, relays with accessories duly mounted, wired & tested to meet specified requirements.	Normally there is no redundancy for Standalone PLC's like Wagon Tippler & Paddle Feeder. Please Confirm.     Please provide the Details for Existing DCS like Model & Make.	Redundancy shall be required as per NIT requirement.     Existing model shall be provided later ,during detail engineering			
7	SECTION VI-3.2	328	CONTRACTOR SCOPE OF WORK - INSTRUMENTATION	3.35 Auto start for pumps must be designed using 1002 philosophy	Please give Clarify on 1002 philosophy	One-out-of-two voting (1002) employs two devices instead of one. In this arrangement of two device only one vote to shutdown from either one of the two devices will cause the shutdown action to occur.			
8	SECTION VI-3.2	328	CONTRACTOR SCOPE OF WORK - INSTRUMENTATION	3.37 Local indicators, start /stop switches, emergency stop switches shall also be provided near package units/rotating machines where local startup of the equipment is advisable.	We will provide the Same for LT Motors and Emergency Stop Provided for HT Motors. Please Confirm	kindly provide as per NIT requirement			
9	SECTION VI-3.2	328	CONTRACTOR SCOPE OF WORK - INSTRUMENTATION	3.39 Trip solenoids shall be dual redundant, and configured and hooked up properly in such a way that failure of one solenoid doesn't initiate a false trip. Trip solenoids shall be normally in energized condition and shall be de-energized to initiate trip.	Please confirm where it is applicable.	The tender has been prepared as per general tender type. What ever type of Instrument are not applicable shall not be used. Remaining tender terms prevails.			
10	SECTION VI-3.2	328	CONTRACTOR SCOPE OF WORK - INSTRUMENTATION	3.40 All trip interlocks must be designed on 2003 philosophy.	Please give Clarify on 2003 philosophy.	Two-out-of-three voting (2003) employs three devices instead of one or two. In this arrangement, if any two instruments vote to cause a shutdown, a shutdown will occur			

11	SECTION VI-3.2	328	CONTRACTOR SCOPE OF WORK - INSTRUMENTATION	3.43 Air fail to open, Close or Hold of any control valve shall be as per Licensors document, to take care of process, plant and human safety. For Piston actuators necessary air volume chambers and lock up relay shall be provided to achieve the fail-safe condition.	Please confirm where it is applicable.	The tender has been prepared as per general tender type. What ever type of Instrument are not applicable shall not be used. Remaining tender terms prevails.
12	SECTION VI-3.2	329	CONTRACTOR SCOPE OF WORK - INSTRUMENTATION	3.51 All line mounted instruments like in- line SOVs, Magnetic flow meter, Rotameter, Mass flow meters etc shall be provided with block & bypass arrangement, with their indications in system as per requirement, which will be discussed in detailed engineering.	Please confirm where it is applicable.	The tender has been prepared as per general tender type. What ever type of Instrument are not applicable shall not be used. Remaining tender terms prevails.
13	SECTION VI-3.2	329	CONTRACTOR SCOPE OF WORK - INSTRUMENTATION	3.52 Separate Sample handling system shall be used for each analyzer. Multi-Channel with stream selector can be used, provided the total system including sample handling system shall be imported. Necessary sequence shall be inbuilt in the analyzer for draining the condensate.	Sampling System is Not in HAMTEK Scope in this Package. So, please remove this Point.	The tender has been prepared as per general tender type. What ever type of Instrument are not applicable shall not be used. Remaining tender terms prevails.
14	SECTION VI-3.2	329	CONTRACTOR SCOPE OF WORK - INSTRUMENTATION	3.55 System / Marshalling/ Packages cabinet size shall be 2100 (H) X 1200 / 800 (W) X 800 (D) Rittal make.	This Panel size is applicable for Control room Panel and its not applicable for standalone local panels. Please confirm.	This Panel size is applicable for Control room Panel
	SECTION VI-3.2	330	CONTRACTOR SCOPE OF WORK - INSTRUMENTATION  CONTRACTOR SCOPE OF WORK - INSTRUMENTATION	3.56 Separate Tapping shall be used for each instrument coming for trip, control & monitoring, local display. Not more than 3 set of taps are allowed.  3.57 Smart positioner shall be considered for all Control Valves. For high temperature services (Above 200 Deg C) remote mounting shall be used for the smart positioner.  3.58 Positioner shall be of valve OEM or as per approved vendor list.  3.59 For all Local panels' rain cover to be provided. The gasket of local panels must be acid resistant preferably Silicone/EPDM or better which will be discussed during detailed engineering.  3.60 For Analyzers separate feeders to be directly taken from UPS. No sub-branching is allowed at any place.  3.62 Fire Alarm system shall be interfaced with the Central fire station, all the	These points are not related to CHP Package. Please confirm  Please provide the location of Central Fire System and the Central Fire station	The tender has been prepared as per general tender type. What ever type of Instrument are not applicable shall not be used. Remaining tender terms prevails.  Refer area plot plan attatched with the tender.For more details regarding Fire alarm system kindly
47				necessary communication up to the central fire system PLC shall be in bidder's scope. Including supply of OFC and network switches etc. Any alarm generated in ROMCOAL / PETCOKE / LIMESTONE HANDLING units shall be displayed at Fire Control Room. Repeater panel at central fire control station shall be in bidder scope. For more details regarding Fire alarm system kindly refer Electrical section of Tender. Overall plot plan elsewhere attached with Tender to be referred by Bidder for determining distances and proposing cable routings.	communication details along with make , model of Communcation module	refer Electrical section of Tender.Instrumentation discipline donot cater to specifics of Fire alarm panel.
17	SECTION VI-3.2	342	CONTRACTOR SCOPE OF WORK - INSTRUMENTATION	7.14 Blocked Chutes: All chutes shall include a blocked chute detection device with a minimum of two (2) different devices installed to ensure the condition is detected. A blocked chute condition shall trip the conveyor. The blocked chute detection devices used depend upon the chute type and material characteristics being handled and include:	As per the recommendations blocked chute detection device Min. One Number is sufficient to ensure the condition is Detected. Please Confirm.	kindly provide as per NIT requirement
18	SECTION VI-3.2	342	CONTRACTOR SCOPE OF WORK - INSTRUMENTATION	7.11 Load cell with Digital Weight Indicator	Accuracy to be confirm	0.015% of FS

19	SECTION VI-3.2	354	CONTRACTOR SCOPE OF WORK - INSTRUMENTATION	Digital Output 16 Channels	Please confirm once again whther DO 16 Channels or 32Channel ? Since as per tender All DI Cards 32 Channels.	Digital Output shall be of 16 Channels.Kindly provide as per NIT requirement.
20	SECTION:VI- 3.3	407	DESIGN PHILOSOPHY – ELECTRICAL	1.2.2 - 11 kV ICOG Panel, as required	As per the tender Tapping from 2 Nos 11KV Feeders, but confirm where its applicable.	Tapping from 2 Nos 11KV Feeders from OUSS (Offsite & Utilities Substation). Please refer plot plan for OUSS location.
21	SECTION:VI- 3.3	409	DESIGN PHILOSOPHY – ELECTRICAL	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.	Please Specify the OUSS Location and its cable routing in plot plan	Please refer plot plan for OUSS location.
				Emergency power supply shall be tapped from 1 Nos. 11KV feeders (Emergency Bus) at Owner's Offsite & Utilities Substation (OUSS) and further distribution shall be in LSTK	Please specify the emergency loads list to be considered clearly.	Bidder shall indicate the details of Normal Loads and Emergency Loads in Techncial Bid, as per NIT requirment.
				Bidder shall indicate the details of Normal Loads and Emergency Loads in the bid. Tentative Location of Offsite & Utilities Substation (OUSS) is marked in Plot plan.	Please Specify the OUSS Location and its cable routing in plot plan	Please refer plot plan for OUSS location.
22	SECTION:VI- 3.3	410	DESIGN PHILOSOPHY – ELECTRICAL	made available by Owner for Construction	400Amps power feeder is not sufficient for erection Activates. As per our site requirement we requiered minimum 630Amps Power supply. So please confirm and provide us the same.	Noted. However Bidder shall provide the Monthwise requirement of construction power.
23	SECTION:VI- 3.3	411	DESIGN PHILOSOPHY – ELECTRICAL	1.11 The interface of electrical equipment's with ECMS / DCS shall be through IEC 61850 Meters, Motor Protection Relay (MPR) and other equipment, Ethernet communication module shall also be used. 100% redundancy shall be provided for communication i.e. the relay should have minimum 2 Nos. IEC-61850 communication port in addition to Front Port.	Please confirm the MFM With IEC 61850 Protocol is required for all motor feeders and incomer,buscouplers (OR) Incomer and bus coupler only.	As per NIT.
24	SECTION:VI- 3.3	418	DESIGN PHILOSOPHY – ELECTRICAL	2.6 Minimum ambient Temperature 1 C.deg	Please check and once again confirm the same.	As per NIT.
25	SECTION:VI- 3.3	421	DESIGN PHILOSOPHY – ELECTRICAL	4.1 Voltage Ratings - Motors above 1000 KW - Motors above 150 KW up to 1000KW -Motors up to150 KW 3.3 KV, 3 Ph AC	Please check once again and confirm whether it is applocable for Utilities also like Dust suppression System, Fire Fighting System	As per NIT.
26	SECTION:VI- 3.3	423	DESIGN PHILOSOPHY – ELECTRICAL	5.1.14 Separate MCCs be provided for Airconditioning and Ventilation systems.	As per our system requirement Air conditioning & Ventilation System having the total feeders are 2 to 3 Nos only and for this small qty separate MCC not sugggestable, so Please check and Confirm.	As per NIT.
27	SECTION:VI- 3.3	437	DESIGN PHILOSOPHY – ELECTRICAL	9.4.1.4 All HV, MV & LV Switchboards shall be LOTO compliance.	Kindly elaborate the LOTO compliance means.	Lock Out Tag Out safety provision.

28	SECTION:VI- 3.3	441	DESIGN PHILOSOPHY – ELECTRICAL	9.4.1.61 All the HV/LV switchgear shall be fed through two separate transformers, each transformer having capability to take care of 100% load of the associated switchgear and shall have the facility of auto changeover in case of failure of one transformer as well as option of manual changeover for maintenance purpose.	Generallay Changeovers are applicable for Power Transformers only and not for Distribution transformer. So please check once again and confirm.	As per NIT.
29	SECTION:VI- 3.3	463	DESIGN PHILOSOPHY – ELECTRICAL	11.3.5 In Coal / Petcock / Limestone Storage Area only, High Masts shall be provided.	Please Mention the High Masts Quantity and its locations.	Average Illumination level as per NIT shall be complied. Nos. of High Masts shall be finalized during detail engineering.
30	SECTION:VI- 3.3	501	POWER TRANSFORMERS	5.9.1 On-Load Tap-Changing Mechanism (O.L.T.C.)	Genrally OLTC is provided for for Power Transformers and OLDC for distribution transformers. Please check and Confirm	Offload tap changer shall be provided.
31	SECTION:VI- 3.3	591	POWER TRANSFORMERS	5.13 The starting current of 415 V Motors shall not exceed the values indicated in IS: 12615. Also there shall be no further positive tolerance on the values of starting current.	We are considering all LT Motors as per IS12615 and starting current will be consider as per IS 12615 Subject to tolerance. Please confirm	As per NIT.
32	SECTION:VI- 3.3	671	HIGH VOLTAGE VARIABLE FREQUENCY DRIVE SYSTEM	5.5.1 Motors shall be provided with Resistance Temperature Detectors (RTDs).	Please confirm whether it is applicable for all Rating Motors or Any range of Montors.	Applicable for all HT Rating Motors
33	SECTION:VI- 3.3	684	HIGH VOLTAGE VARIABLE FREQUENCY DRIVE SYSTEM	5.3.4 The sheet steel used for the panel shall be of minimum 2 mm CRCA except the doors & covers that may be made of 2mm CRCA. The panel shall be suitable for indoor installation, if not otherwise specified. The panel shall be free standing with degree of enclosure protection as IP-31. Maximum and minimum operating height shall be 1900 mm and 300 mm respectively.	Normally Panel supplier providing 2mm thick for main board and 1.6mm for doors,3mm for gland plate. Please confirm.	As per NIT.
34	SECTION VI- 10.0	356	VENDOR LIST	Wagon trippler & Paddle Feeder	Kindly include additional make for Wagon feeder - Metso, Beumer India etc Paddle Feeder - Amund, Beumer India, FAMUR etc	All proposed additional sub-vendors shall have proven track record/credential and shall be subjected to owner's / consultant approval during detail engineering.
35		430	Material Flow Diagram	As per your flow Chart DE System as applicable for Wagon Tippler & Track Hopper Complex	Dust Extraction System is Not applicable since Dust suppression system shall be provided for suppressing dust from wagon tippler complex/plant (All discharge/ receiving points of conveyor system, hoppers & other dust generating sources) including track hopper building. Only. Please confirm.	Dry Fog Dust Suppression sysytem shall be provided by bidder for suppressing dust from Wagon tippler complex, Track Hopper complex, all dischrge / receiving points of conveyors , hoppers & other dust generating points etc.  Amendment shall be issued.
36		430	Material Flow Diagram	As per your flow Chart DW, DS, VS & SW consider at Pent House location	Normally DS, DW & SW provided at transfer Points Only. So these system are not applicable. Please Confirm	Confirmed. Amendment shall be issued
37		430	Material Flow Diagram	As per your flow Chart DW, DS & SW consider at Existing tower (TT-2)	DS & SW are provided at our conveyor headend Platform only and DW System are Not applicable for this system, Since DW is already available this Tower. Please Confirm	Bidder to provide DS & SW at your scope 's conveyor headend platform only in Existing tower TT-2.
38		431	Conveyor Layout Plot Plan	Existing OUSS (Offsite &Utility Sub-Station)	We are Not finding the location of this item. Please Confirm.	Please refer plot plan for OUSS location.
39		438	P& I Drawing	As per your P&I Drawing Cooling Water Circuit is mention	Cooling water is Not applicable since all equipment's are Air Cooled Only. Please confirm.	Confirmed.
40		438	P& I Drawing	As per Your P&I drawing Dry Fog system to be consider for Wagon Tippler rea, Track Hopper Area and Tranfer Points	Normaly Plain water system Provided for Track Hopppers, so please check and confirm.	Dry Fog DS system to be provided for Wagon Tippler area, Track Hopper Area and all Tranfer Points.
41		438	P& I Drawing	As per your P&I Drawing Plain Water Dust suppression to be consider Pheriphery of wagin Tippler area	Genarllay Plain Water DSS provided at Track Hopper area and Dry Fog DSS provided at Wagin Tippler area. Please check and coinfirm.	Dry Fog DS system to be provided for Wagon Tippler area, Track Hopper Area and all Tranfer Points.
42		438	P& I Drawing	Feed Water Pumps for PF DS system and Plain water Dust suppression system for Paddle Feeders	We feel that these two Drawings to be connected in your P&I drawing, please cross check and confirm.	Bidder query not clear.
43		438	P& I Drawing	PW System	Genarally Service water used for Toilets not PW system. Please cross cehck and confirm.	bidder to confirm quality of service water and Plain water.

14		431 - 438	P& I Drawing	Drawings	Request you to kindly provide us the Autocad Drawings for the same.	Autocad drawings to be provided during detailed engneering to successful bidder.
15	SECTION VI- 2.0	11 of 746	Clause no-1, (iii)	Following raw material & utility piping lines shall be made available to the contractor/bidder at One point of battery limit.	We presume that water at required pressure will be made available by the client at terminal point.	Client will avail the water at bidder battery limit.
16	PC0183/4009/SecV I/1.0	Sheet 17 of 33	Clause no-10.1.11	DE-Dusting system, Bidder to consider following Dust Extraction system: Dry fog Dust suppression system shall be provided for suppressing dust from wagon tippler complex/plant (All discharge/receiving points of conveyor system, hoppers & other dustgenerating sources) including track hopper building.		As you know limestone, coal and pet coke will be handled through the common conveyors and handled lime stone size is -200mm.therfore DFDS is recommended.
17		Sheet 17 of 33	Clause no-10.1.15, (f)	Wagon unloading Operation at track hopper building: Unloading is done automatically from the bottom through Pneumatic Door Operating Mechanism activated by rail Side Devices		Yes it is confirmed that the pneumatic door opening mechanism for bottom and side discharge wagons at track hopper will be in bidder's scope.
	PC0183/4009/Sec VI/3.1.1	Sheet 8 of 33	Clause No-8.01-(i)	Gratings over wagon tippler hopper shall be placed and designed accordingly	i) We understood that apart from wagon tippler hopper grating shall also be provided on track hopper and the same will be in bidder's scope. Kindly confirm	i) Confirmed.
					iii) Proposed system is conveying three types of material (Coal/Coke/Lime stone). Coal is having 100mm size, Pet Coke having 30mm size and LS having 200mm size. Kindly advise what will be the opening size of grating	ii)It is confirmed that coal size is -100mm,lime stone size is -200mm and pet coke size is - 30mm.Bidder should design the grating as per the highest lump size -200mm.
		Page-54 of 746	-		Details specification and constructional detail of wagon tippler not available in the data sheet nor in the specification. Kindly furnish those details for selection of equipment	
	DATA SHEET: Side Arm Charger, DOCUMENT NO- PC0183	Page-55 of 746			Details specification and constructional detail of SAC not available in the data sheet nor in the specification. Kindly furnish those details for selection of equipment	
	DATA SHEET: Apron Feeder, DOCUMENT NO- PC0183	Page-56 of 746			Details specification and constructional detail of apron feeder not available in the data sheet nor in the specification. Kindly furnish those details for selection of equipment	
	DATA SHEET: Paddle Feeder, DOCUMENT NO- PC0183	Page-57 of 746			Details specification and constructional detail of paddle feeder not available in the data sheet nor in the specification. Kindly furnish those details for selection of equipment	
	PC0183/4009/Sec VI/3.1.1	3 OF 39		SUB-VENDOR LIST FOR APRON FEEDER, PADDLE FEEDER, SIDE ARM CHARGER AND WAGON TIPPLER MACHINE	, , ,	All proposed additional sub-vendors shall have proven track record/credential and shall be subjected to owner's / consultant approval during detail engineering.
					As such FLS is the only sub-vendor for major critical bought-out items.	

					As such condition we request you allow additional sub-vendor like L&T and METSO who are having all the product like Apron feeder, Wagon tippler, Paddle Feeder and Side Arm Charger in their manufacturing range. They are having references of lots of installation for similar type machines. If require we can submit necessary credential for your approval.	
54	PC0183/4009/Sec VI/3.1.1	Page-13 of 33	SI No (xlii)	The inclination ofconveyors inside the tunnel shall be limited to 10 degreeThe conveyor shallbe horizontal at the feed point as far as possible. In case the same is not possible, theinclination at the feed point shall be limited to 6 degree.	Refer to the GA drawing of conveyor 3A/B (Drg No-PC0183-1411-0003) throughout the length conveyor inclination is given 12 degree. Now if we follow the specification as mentioned in the referred clause then length of conveyor as well as tunnel portion will get increased. Kindly advise	Clause No. xiii, Page no13 of 33 shall be modified.  Amendment shall be issued.
55	Drg no-PC0183- 1411-0002, Drg no- PC0183-1400-0002 & Equipment data sheet for wagon tippler			Type of wagon tippler.	The wagon tippler arrangement shown in the drawing is rotary type wagon tippler. For rotary type wagon tipplers, beetle charger is required for wagon pulling. In the data sheet side arm charger is requested for wagon positioning. For side arm charger rota side/cresent type side discharge wagon tipplers are required. Please clarify the exact requirement as per layout point of view.	As Per NIT.
56	DATA SHEET: SIDE ARM CHARGER	55 of 746		Service: - Wagon positioning at the Wagon tippler for unloading of materials. Pushing /pulling a rake of 58 wagons and TWO LOCO ENGINE	Normally the SAC are allowed to pull 59 loaded wagons only. Please clarify	It is confirmed that SAC is allowed to pull 59 loaded wagons only.  Amendment shall be issued.
57					Please share Railway track layout which covers track slope & curvature details	It will be shared in DED stage.
58	DATA SHEET: APRON FEEDER	56 of 746		Apron feeder speed - 2.5 m/sec.	Apron feeder speed is limited to 0.4 to 0.45 m/sec only.	Bidder to select speed of apron feeder as per design capacity of Apron feeder i.e. 1500 tph. For Speed, Amendment shall be issued.
59	Section VI	2 of 746	3.1.2	Design Specification - Rotating Equipment	We understand that Rotating Equipment is not in bidder's scope. This tender is only for Material Handling System.	Rotating Equipment is in Bidder's scope as per NIT.
60	Section VI	3 of 746	3.1.3	Design Specification - Static Equipment	We understand that Static Equipment is not in bidder's scope. This tender is only for Material Handling System.	Static Equipment is in Bidder's scope as per NIT.
61	Section VI - 1.0,	6 of 746	3, S.No. 6	Conveyor belt system - Capacity : Rated - 1250 TPH. Design- 1500TPH. Max. Belt Speed – 2.5m/s	With max. Belt Speed 2.5m/s design capacity can not be achieved. Please clarify	Max. Belt Speed – 3.0 m/s, Amendment shall be issued.
	Section VI - 1.0,	Page 20 of 746		Wagon tippler hopper shall have a loading capacity of minimum 3 wagons loads of Raw Material i.e. 180 T (Single hopper).		Wagon tippler hopper shall have a loading capacity of minimum 3 wagons loads of Raw Material i.e. 180 T (Single hopper) considering Coal Bulk density as 0.8 T/m3.
63	Section VI - 1.0,	Page 30 of 747	10.1.11	DE-Dusting system Bidder to consider following Dust Extraction system:- a) Dry fog Dust suppression system shall be provided for suppressing dust from wagon tippler complex/plant (All discharge/receiving points of conveyor system, hoppers & other dust generating sources) including track hopper building.	Extraction System.	Dry Fog Dust Suppression sysytem shall be provided by bidder for suppressing dust from Wagon tippler complex, Track Hopper complex, all dischrge / receiving points of conveyors , hoppers & other dust generating points etc.  Amendment shall be issued.
64	Section VI - 1.0,	Page 31 of 748	10.1.12	EOT crane shall be provided for maintenance of wagon tippler.	Capacity of EOT Crane is not mentioned in the NIT. We propose 10t electric hoist to cater the maintenance of Wagon Tippler.	Refer Machinery Section
65	Tech NIT 4of4	-	-	Qty of Sump Pump shown in the thable of Flow Diagram (Drg. No. PC0183-1400-0001) drawing is 6 nos. but in the drawing there are 18 nos. Sump Pump Shown	We are considering 16 Nos. Sump Pump as following:  - Wagon Tippler Complex - 2 Nos. (1W=1S)  - Track Hopper Complex - 8 Nos. (4W+4S)  - TP-1 - 2 Nos. (1W=1S)  - TP-2 - 2 Nos. (1W=1S)  - TP-3 - 2 Nos. (1W=1S)	OK.

66	Tech NIT 4of4	-	-	In Flow Diagram (Drg. No. PC0183-1400-0001) there is Suspended Magnet on Conveyor No. BC-1A/1B & BC-2A/2B and ILMS on Conveyor No. BC-6A/6B but in profile drawing (Drg. No. PC0183-1411-001 to 003) there is no Suspended Magnet on Conveyor No. BC-1A/1B and there is ILMS on Conveyor No. BC-2A/2B & BC-3A/3B.	As per the scheme we propose ILMS on conveyor No. BC-3A/3B & BC-6A/6B.	ОК.
	PC0183/4009/Sec VI/3.1.1	Page no. 24 of 746	10.1.1 Conveyors System	The skirt boards and sealing with overlapping block design shall be provided with labyrinth seals.	We recommend skirt sealing shall be with rubber, with a self locking clamp plate as a sealing arrangement	As per NIT.
		Page no. 25 of 746	10.1.1 Conveyors System	Head/ Drive Pulley shall be 800mm outer diameter and Tail Pulley, Take-up pulley, Snub Pulley and Bend Pulley shall be 630mm outer diameter	As per IS 8531, we suggest to optimize the pulley dia based on belt rating	As per NIT.
		Page no. 25 of 746	10.1.1 Conveyors System	Tail Pulley, Take-up pulley, Snub Pulley and Bend Pulley shall be lagged with 12mm thick Plain Rubber	As per standard practice, we suggest 10mm thk plain lagging for Tail , Take-up , Snub and Bend Pulley.	As per NIT.
		Page no. 26 of 746	10.1.1 Conveyors System	All Conveyor galleries shall be provided with dust sweeping chutes covered with removal chequered plates. There shall be one dust hopper for each walkway of gallery and the same shall be provided at the middle of walkway near trestle location	Please mention the spacing of dust sweeping chute, we recommend a spacing of 90 mtr at an 4 legged trestles. Kindly Confirm	ok. Confirmed.
		Page no. 28 of 746	10.1.5 Pulleys and Shafts	Shaft deflection shall be limited to 0.066% of bearing centres	We recommend maximum shaft deflection as 0.15 % (5 minutes at the pulley end disc)	As per NIT.
		Page no. 28 of 746	10.1.5 Pulleys and Shafts	Head/ Drive Pulley shall be 20 mm thick shell and Tail Pulley, Take-up pulley, Snub Pulley and Bend Pulley shall be 16 mm thick shell	Based on the bending moment at rim, we suggest to optimize the shell thickness	As per NIT.
		-	10.1.7 Bearings and Pillow Blocks	All bearing, to be used in equipments/assemblies shall be fitted in Plummer block	Idler bearing shall be mounted on roller housing, no plummer block for the same shall be provided	ok. Confirmed.
		Page no. 30 of 746	10.1.11 DE-Dusting system	a) Dry fog Dust suppression system shall be provided for suppressing dust from wagon tippler complex/plant	As limestone being hydroscopic in nature, DFDS is not recommended. We request you to please suggest type of DE dusting system	As the limestone size -200mm. DFDS system shall be used as per NIT. Due to DFDS system percentage % of moisture addition is 0.05%.
		Page no. 31 of 746	10.1.13 Safety Guards	Guards shall completely enclose moving parts so that physical contact with the moving parts can not be made with the guard in place	We presume mesh guards for throughout the length of conveyor is not required. Kindly Confirm	Confirmed.
76		Page no. 37 of 746	DATA SHEET: BELT CONVEYOR	Lagging: - Min. 25 mm thk. Rubber lagging for Impact idlers (plain pattern).Lagging in Guide roller to be provided	We presume for SA Carrying and SA return guide rollers, lagging is not required. Kindly Confirm	As per NIT.
77		Page no. 38 of 746	DATA SHEET: BELT CONVEYOR	Skirt Board Material :- IS 2062 Length & Thickness: - min. 3m long & 6 mm thk	For Skirt board we have considered 6mm thk sailhard / tiscral as a liner on side plates and 3mm thk MS as a top plate. Kindly Confirm	Confirmed.
		Page no. 18 of 746	3.0 EXTENT OF SUPPLY	Interface with coal/petcoke/limestone storage and feeding system to Gasifier	Please provide GA drawing of transfer tower TT-02 and existing conveyor, so as we can consider proper interface with	ok.
	-	Page no. 437 of 439		GA of conveyor BC-06A and BC-06B	coal/petcoke/limestone storage and feeding system to Gasifier	ok.
80	PC0183/4009/SecVI	-	14.8 INSTRUMENT AIR SUPPLY DISTRIBUTION	Instrument air shall be provided at one point at battery limit	Since the Instrument air is supplied by owner at the battery limit, we have not considered any compressor. Kindly Confirm	For DFDS system , Bidder to consider Compressor. Instrument air is Supplied by Owner at the battery limit.
	PC0183/4009/SecV I/10.0	Page no. 357 of 439		SUB-VENDOR LIST / Paddle feeder	We request Aumund as additional make for paddle feeder	All proposed additional sub-vendors shall have proven track record/credential and shall be subjected to owner's / consultant approval during detail engineering.
	PC0183/4009/SecV I/10.0	Page no. 414 of 439		SUB-VENDOR LIST / Electric Actuator	Kindly include Rotork-India, Auma- India and Limitork-India as additional make	All proposed additional sub-vendors shall have proven track record/credential and shall be subjected to owner's / consultant approval during detail engineering.
83	-	Page no. 431 of 439		Conveyor layout	Please provide the layout in AutoCad Format	To be provided during detail enginnering to successful bidder.