

PROJECT : COAL GASIFICATION BASED FERTILISER PLANT AT TALCHER, ODISHA  
NIT No.; PNMM/PC-183/E- 4016/NCB Dated 15.07.2022 INSTRUMENT AIR & PLANT AIR SYSTEM  
SUBJECT : REPLY TO PRE-BID QUERIES : LOT 1 Dated 08.08.2022

SL. NO.	Section. No.	PDF Page No.	CLAUSE NO. & Heading	SUBJECT	Bidders's Query	PDIL/TFL's Reply
<b>TECHNICAL:</b>						
1	Scope of Work(PC183/E/4016/SEC -VI/PART-1.0)	2 of 13	1.1 GENERAL DESCRIPTION OF PACKAGE	1 No. Moisture separator Knock out drum	We understand that 1 No. Moisture separator will be common for all compressors. Please confirm.	Noted
2	Scope of Work(PC183/E/4016/SEC -VI/PART-1.0)	3 OF 13	2 SCOPE OF SUPPLY	Integrally geared centrifugal compressor as per API 672	We understand that Integrally geared centrifugal compressor as per API 672 with manufacturer's standard deviations will be acceptable. Please confirm.	As per NIT
3	Scope of Work(PC183/E/4016/SEC -VI/PART-1.0)	6 of 13	2 SCOPE OF SUPPLY	2.3 k) Fire proofing as per requirement of the bid package	As the IA/PA plant located in Safe Area, fire proofing is not applicable here. Please confirm.	Noted
4	Scope of Work(PC183/E/4016/SEC -VI/PART-1.0)	6 of 13	2 SCOPE OF SUPPLY	2.3 o) Supply of mandatory (spare parts for two year operation) and commissioning spares attached elsewhere in bid package.	We understand that Mandatory spares and commissioning spare are in bidder scope. But Two year spare is not in bidder's scope. Please confirm.	Refer General notes of page no 3 of 19 of NIT section PC183/E/4016/SEC-VI/ PART-5.0- i.e. Supply of mandatory spares for two years operation and commissioning spares shall be in bidder's scope as per NIT .
5	Scope of Work(PC183/E/4016/SEC -VI/PART-1.0)	6 of 13	2 SCOPE OF SUPPLY	Supply of all equipments, tool & tackles including torque wrench, bolt tensioned etc. as per specification	We understand that Tools & Tackles including torque wrench, bolt tensioned etc are required for erection job and not part of the supply. Please confirm.	Noted , Hower for supply of hydraulic stud-tensioner device with necessary adopters/insertions refer clause no 1.13 of PC183/E/4016/SECVI -3.2.1
6	Scope of Work(PC183/E/4016/SEC -VI/PART-1.0)	8 of 13	2 SCOPE OF SUPPLY	2.5.2 All statutory clearances and permits from local, statutory and other bodies such a Indian Boiler Regulations, Static and mobile pressure vessel rules, Chief controller of explosives, Factory inspector, Labour Inspector, Electrical inspector, pollution controls board etc.	These are not applicable for this package. Clearance from pollution control board shall be in Owner's scope. Please confirm.	Support activities for all statutory clearances and permits from local, statutory and other bodies shall be in bidder's scope
7	Scope of Work(PC183/E/4016/SEC -VI/PART-1.0)	8 of 13	2 SCOPE OF SUPPLY	Approval from Statutory authorities (PESO, IBR, etc.),	Approval from Statutory authorities such as PESO, IBR, etc. are not applicable for this project.	Please refer s.no. 6
7	Scope of Work(PC183/E/4016/SEC -VI/PART-1.0)	8 of 13	2 SCOPE OF SUPPLY	2.5.2 ASME Code Stamping	We understand that ASME Code stamping is not required for this project. Please confirm requirement.	As per NIT, if required
8	Scope of Work(PC183/E/4016/SEC -VI/PART-1.0)	8 of 13	2 SCOPE OF SUPPLY	2.5.2 Compliance to Petroleum rules, etc	We understand that Petroleum rules is not applicable here. Please confirm.	Noted
9	Technical Specification (PC183/E/4016/SEC -VI/PART-2.0)	3 of 10	2.5.1 Air Compressor	<b>Capacity:</b> 5000 - 5500 Nm <sup>3</sup> /hr each (on Dry Basis)	As the Instrument air generation capacity is 9000 Nm <sup>3</sup> /hr & Plant Air capacity is 7500 Nm <sup>3</sup> /hr and with 3W + 1S compressor configuration, rated capacity of each LP compressors should be minimum 5500 Nm <sup>3</sup> /hr.	Noted
10	Technical Specification (PC183/E/4016/SEC -VI/PART-2.0)	3 of 10	2.5.1 Air Compressor	Suction Pressure: Atmospheric	We understand that the suction pressure of the compressor shall be as per elevation of the site. Hence, please confirm the site barometric pressure.	RH-100%, at 31.9 Deg C Max Temp, 46.3 DegC Min Temp, 1 Deg C Avg Temp 31.9 Deg C Atm Pressure- 1008 Mbar
11	Technical Specification (PC183/E/4016/SEC -VI/PART-2.0)	3 of 10	2.5.1 Air Compressor	Discharge Pressure: 9.0 - 9.5 Kg/cm <sup>2</sup> g (g)	We understand that discharge pressure of the compressor shall be selected by the bidder so that the B/L pressure for IA & PA are maintained. Please confirm.	As per NIT
12	Technical Specification (PC183/E/4016/SEC -VI/PART-2.0)	3 of 10	2.5.1 Air Compressor	Capacity Control: 0-100%	Capacity Control of 0-100% for cetrifugal compressor is not possible. Capacity control of centrifugal compressor is limited to 80-100%.	Noted.
13	Technical Specification (PC183/E/4016/SEC -VI/PART-2.0)	4 of 10	2.5.1 Air Compressor	Coincident temperature of Air Compressor	Coincident temperature of the air compressor is not mentioned. Please specify the coincident temperature and relative humidity for compressor design.	Please refer S.NO.10
14	Technical Specification (PC183/E/4016/SEC -VI/PART-2.0)	4 of 10	2.5.1 Air Compressor	All compressors must be able to operate in parallel.	We understand that three compressors will be in operation and not all four. Please confirm.	3 (working) and 1 (standby) shall be iin operation but during change over of compressor all four may run for few hours if required. Bidder has to provide suitable line size accordingly
15	Technical Specification (PC183/E/4016/SEC -VI/PART-2.0)	4 of 10	2.5.2 Air Compressor After-cooler	Allowed pressure drop (cooling water )- 0.7 kg/cm <sup>2</sup> (Across B/L)	Pressure drop in cooling water circuit across the after cooler will be 0.7 Kg/cm <sup>2</sup> , however the total pressure drop across the B/L in cooling water header will be 1 kg/cm <sup>2</sup> g.	Noted, Total pressure drop across the B/L to B/L in cooling water header will be 1 kg/cm <sup>2</sup> g.
16	Technical Specification (PC183/E/4016/SEC -VI/PART-2.0)	4 of 10	2.5.3 Wet Air Receiver K.O Drum	<b>Capacity :</b> By bidder but not less than 30 m <sup>3</sup>	We understand that Bidder will provide the suitable capacity of wet air receiver and 30 m <sup>3</sup> capacity is not mandetory to follow. Please confirm.	Capacity shall be finalised by bidder but not less than 30 m <sup>3</sup> .
17	Technical Specification (PC183/E/4016/SEC -VI/PART-2.0)	5 of 10	2.5.4 Adsorber	Material of Construction: C.S. (internals S.S.)	All internals will not be SS. Only wiremesh or 1.5 mm thick perforated sheet will be SS. All other parts will be of CS.	As per NIT

PROJECT : COAL GASIFICATION BASED FERTILISER PLANT AT TALCHER, ODISHA  
 NIT No.; PNM/PC-183/E- 4016/NCB Dated 15.07.2022 INSTRUMENT AIR & PLANT AIR SYSTEM  
 SUBJECT : REPLY TO PRE-BID QUERIES : LOT 1 Dated 08.08.2022

SL. NO.	Section. No.	PDF Page No.	CLAUSE NO. & Heading	SUBJECT	Bidders's Query	PDIL/TFL's Reply
18	Technical Specification (PC183/E/4016/SEC -VI/PART-2.0)	5 of 10	2.5.4 Adsorber	Bidder shall provide 1 No. Low Pressure Wet Air Receiver upstream of Instrument Air Generation package to avoid any fluctuations in operation of Instrument Air Generation package.	In FEED P&ID, Instrument Air Receiver of 30 m3 vol. has been shown at the downstream of the IA dryer unit and a KOD is shown at the upstream of the Instrument air dryers. Hence, we understand that additional IA Receiver at the upstream of the DRYER unit is not required. Still if you feel it is required, please provide us its sizing basis .	As per NIT. Refer clause no 2.5.3 of PC183/E/4016/SEC-VI/PART-2.0 SHEET 4 OF 10.
19	Technical Specification (PC183/E/4016/SEC -VI/PART-2.0)	5 of 10	2.5.7 Dried Air After Cooler	Allowed pressure drop (cooling water )- 0.7 kg/cm2 (Across B/L)	Pressure drop in cooling water circuit across the dried air after cooler will be 0.7 Kg/cm2 , however the total pressure drop across the B/L in cooling water header will be 1 kg/cm2 g.	Please refer S.NO.13
20	Technical Specification (PC183/E/4016/SEC -VI/PART-2.0)	7 of 10	2.5.12 HP Compressor	HP compressor discharge pressure @ 40 kg/cm2 g	As the storage pressure of HP IA receiver is 36.5 kg/cm2 g max, the HP compressor discharge pressure @ 36.5 kg/cm2 g. is sufficient and 40 kg/cm2 g pressure is not required.Please confirm.	As per NIT
21	Technical Specification (PC183/E/4016/SEC -VI/PART-2.0)	7 of 10	2.6.1 Site Metrological data	Site Metrological data	Please furnish the coincident temperature and relative humidity for compressor design.	Please refer S.NO.10
22	Technical Specification (PC183/E/4016/SEC -VI/PART-2.0)	9 of 10	3.3 Process Guarantees	3.3.1 The rated capacity of each LP air compressor shall be minimum 5000 - 5500Nm3/hr (Dry Basis) at 9.0 - 9.5Kg/cm2g.	As the Instrument air generation capacity is 9000 Nm3/hr & Plant Air capacity is 7500 Nm3/hr and with 3W + 1S compressor configuration, rated capacity of each LP compressors should be minimum 5500 Nm3/hr.	Please refer S.NO.9
23	Technical Specification (PC183/E/4016/SEC -VI/PART-2.0)	9 of 10	3.3 Process Guarantees	3.3.3 The plant air header pressure (at vendor B/L) shall be 8.5-9 Kg/cm2 (g)	We understand that the plant air header pressure (at vendor B/L) between 8.5 kg/cm2 (g) and 9 Kg/cm2 (g) is acceptable. Please confirm.	Noted
24	Technical Specification (PC183/E/4016/SEC -VI/PART-2.0)	9 of 10	3.3 Process Guarantees	3.3.7 Noise level shall be maximum 85 dBA at one meter from the source	We understand that this is not a mandatory requirement. Please confirm.	As per NIT
25	Technical Specification (PC183/E/4016/SEC -VI/PART-2.0)	9 of 10	3.3. Process Guarantee	3.3.9 Dryer outlet temperature as 45 deg C.	We understand that this is the maximum permissible temperature at dryer outlet. Please confirm.	confirmed
26	Technical Specification (PC183/E/4016/SEC -VI/PART-2.0)	9 of 10	3.3 Process Guarantees	3.3.8 Pressure drop across each Air instrument dryer & across the system shall not exceed 0.5 kg/cm2	Pressure drop across the dryer bed will be 0.5 kg/cm2 , however pressure drop across the dryer system will be 0.6 kg/cm2.	Pressure drop across the system shall not exceed 0.5 kg/cm2.
27	Technical Specification (PC183/E/4016/SEC -VI/PART-2.0)	9 of 10	3.3 Process Guarantees	3.3.10 The Bidder shall demonstrate following parameters during COMMISSIONING at site: - Capacity - Battery limit condition i.e. Pressure, temperature, dew point, switch over time,	Please confirm the applicability of this clause against which equipment.	This Process Guarantees is applicable for all supplied equipments (i.e. Compressors, dryers,vessels, heaters, instruments, battery limit conditions power & utility consumptions..etc). As per clause no. 3.3
28	Technical Specification (PC183/E/4016/SEC -VI/PART-2.0)	10 of 10	3.4 Guarantee of Utilities:	Note 1. All Guaranteed Consumptions including power & cooling water Cost shall be indicated in price schedule and indicated figures to be furnished in technical bid.	As the guaranteed power & cooling water cost will be considered for price evaluation and part of the price bid, we will not be able to furnish it in the technical bid.	Bidder understanding is correct.
29	Design Specification (PC183/E/4016/SEC-VI/PART-3.1)	6 of 8	4.0 Corrosion Allowance	MOC of instrument air piping shall be SS304.	We understand that galvanised pipe can be used for instrument air piping. Please confirm.	MOC shall be as per NIT i.e. SS304.
30	Design Specification (PC183/E/4016/SEC-VI/PART-3.1)	7 of 8	7.0 Compressors	The plants shall be designed to operate safely and satisfactorily at maximum capacity of 105% of Design Capacity.	Compressors shall be designed as per the guaranteed figure.	The plants shall be designed to operate safely and satisfactorily at maximum capacity of 105% of Design Capacity.
31	Design Philosophy- Static equipment (PC183/E/4016/SEC-VI-3.2.1)	7 of 38	1.26 DESIGN DOCUMENTATION	1.26.3 3D PDS Model for Piping and Equipment Layout	We understand that AVEVA PDMS Ver. 12.1.SP5.17 is also acceptable Please confirm.	Noted
32	Design Specification Rotating (PC183/E/4016/SEC-VI-3.2.2)	5 of 10	3.2 Centrifugal Compressors (for Air services)	3.2.1 All compressors shall be oil-free type and shall be supplied as per 'Special Duty Packages' meeting the requirements of API 672 4th Ed. & Addendum to API 672 4th Ed.	We understand that Intergrally geared centrifugal compressor as per API 672 with manufacturer's standard deviations will also be acceptable. Please confirm.	As per NIT.
33	Design Specification Rotating (PC183/E/4016/SEC-VI-3.2.2)	6 of 10	3.2 Centrifugal Compressors (for Air services)	3.2.2 Compressor filtration hood and suction piping including internals shall be SS material only. Air compressor suction to be provided with suitable measures to avoid moisture ingress during rainy season	We understand that galvanised suction filtration hood will also be acceptable. Please confirm.	As per NIT.
34	Design Specification Rotating (PC183/E/4016/SEC-VI-3.2.2)	7 of 10	3.2 Centrifugal Compressors (for Air services)	3.2.14 All the trip interlock shall be two out of three voting logic	2oo3 voting logic shall be provided as per OEM recommendation and not for all trips.	as per NIT
35	Design Specification Rotating (PC183/E/4016/SEC-VI-3.2.2)	7 of 10	3.3 Reciprocating Compressors	The reciprocating compressors shall conform to API-618, latest edition	We understand that Reciprocating compressor as per manufacturer's standard will also be acceptable.	As per NIT.
36	Design Specification Rotating (PC183/E/4016/SEC-VI-3.2.2)	8 of 10	3.4 EOT Cranes	Bidder to provide EOT Cranes of adequate capacity in Compressor House and other location wherever required for ease in operation and maintenance activities	We understand that both compressor house and EOT crane are not in Bidder's scope. Owner will provide the compressor house along with suitable EOT crane. Please confirm.	As per NIT EOT crane shall be part of bidder scope.
37	Design Philosophy - Piping (EM0000-PNMP-TS951)	6 of 45	4.0 General Design	4.3 The minimum size of piping to be used in pipe-racks shall be 2" NB.	Pipe size shall be as per P&ID, irrespective of where it is located.	As per NIT

PROJECT : COAL GASIFICATION BASED FERTILISER PLANT AT TALCHER, ODISHA  
 NIT No.; PNM/PC-183/E- 4016/NCB Dated 15.07.2022 INSTRUMENT AIR & PLANT AIR SYSTEM  
 SUBJECT : REPLY TO PRE-BID QUERIES : LOT 1 Dated 08.08.2022

SL. NO.	Section. No.	PDF Page No.	CLAUSE NO. & Heading	SUBJECT	Bidders's Query	PDIL/TFL's Reply
38	Design Philosophy - Piping (EM0000-PNMP-TS951)	14 of 45	5.2.9 Utility Stations	Requisite number of utility stations shall be provided throughout the unit to cater for the utility requirement. Utility stations shall have four connections one for LP steam (SL), one for Plant Air (AP), one for Service Water (WS) and one for nitrogen each of 1.0" with isolation valves unless otherwise specified in P&ID.	Please remove the Steam Line as it is not required here and it will attract IBR. We also understand that all the utility will be supplied by Owner at the plant B/L. Please confirm.	Noted
39	Design Philosophy - Piping (EM0000-PNMP-TS951)	19 of 45	5.12 Flexibility Analysis and Supporting		As there is no critical line in this package, we understand that Flexibility Analysis is not applicable for IA/PA package. Please confirm.	As per NIT
40	Design Philosophy - Piping (EM0000-PNMP-TS951)	23 of 45	6.2 Pipe	6.2.5 Hydrostatic tests shall be applied to each length of pipe and be in accordance with the requirements of ASTM A530/A530M, unless otherwise specified.	Hydrostatic test shall be done only for water lines, Air lines shall be pneumatically testes as per Linde Design Philosophy.	As per NIT
41	Design Philosophy - Piping (EM0000-PNMP-TS951)	23 of 45	6.3 Fittings	6.3.1 Type of fittings shall be equivalent to pipe type. All fittings shall be seamless similar to pipe specification in construction unless otherwise specified.	The Fittings shall be as per PMS. Hence project Specific PMS shall be prepared by the Bidder during execution phase. Normally upto 6" Size pipe & fittings are of seamless construction & above that they are of welded construction.	As per NIT
42	Design Philosophy - Piping (EM0000-PNMP-TS951)	23 of 45	6.3 Fittings	6.3.5 All pipes employed for manufacturing of fittings shall be required to have undergone Hydro test to ASTM A530.	Fittings shall be as per ASME B16.9 & ASME B16.11 and shall undergo normal testing procedure as per the above standards. Project Specific ITP required for estimation.	As per NIT
43	Design Philosophy - Piping (EM0000-PNMP-TS951)	23 of 45	6.3 Fittings	6.3.6 All welded fittings shall be 100% Radio-graphed by X-Ray on all welds.	Radiography shall be done as per Project Specific NDT requirement & shall be aligned with Project specific ITP(Inspection and Testing Plan). Hence we need both both Project NDT requirement & ITP. Please provide.	As per NIT
44	Spare Parts (PC183/E/4016/SEC-VI-PART-5, REV-0)	4 of 19	2.2 ROTATING EQUIPMENT	b) Spares for EOT Crane	As the EOT Crane is not under bidder scope, hence spares for EOT crane is also not in bidder's scope. Please confirm.	As the EOT Crane is under bidder scope, hence spares for EOT crane is also in bidder's scope.
45	Spare Parts (PC183/E/4016/SEC-VI-PART-5, REV-0)	4 of 19	2.1 CENTRIFUGAL COMPRESSOR	2.2 Spares for lube oil pump :	Bidder is supplying a complete lube oil pump with drive against 2.1 there is no need to supply spares for lub oil pump separately. Please confirm.	Shall be as per NIT.
46	Design Specification - Electrical (PC183/E/4016/SEC-VI/PART3.3 , REV-0)	4 of 31	1.0 SCOPE	1.3 The minimum scope of work shall include supply, Installation, Testing & commissioning of the following:- <ul style="list-style-type: none"> <li>• Motors</li> <li>• Local control stations for motors</li> <li>• UPS Distribution Boards</li> <li>• FCMA based starter for HV Motors</li> <li>• Electric Heater &amp; control panel for Air dryer system</li> <li>• Any other items not specified but required for the safe and complete operation of the system</li> </ul>	1.As HV motor rating will be small, hence soft starter is not required. Hence, soft starter will not be provided. 2.We understand that all HT & LT cable required for IA/PA package shall be in owner scope. Please confirm. 3. We understand that all the HT & LT Feeders required for the IA/PA Package shall be provided by Owner. Please confirm.	1. FCMA based soft starter fo all HV motors to be provided as per NIT. 2. Confirmed 3. Confirmed.However bidder shall provide load list in bid itself.For UPS power only 2 nos incoming supply for bidder's UPS DB has been considered by owner.
47	Design Specification - Electrical (PC183/E/4016/SEC-VI/PART3.3 , REV-0)	4 of 31	1.0 SCOPE	1.4 The Owner shall make the following provisions in their respective switch boards/panels for the Instrument /Plant air package: ( Bidder to indicate power requirment of respective feeders) i) 3 nos. of 11kV/3.3kV (As applicable ) ±10% ,50Hz±5%,Breaker feeder for main motor. ii) 2 nos. of 415V ±10% ,50Hz±5%,Power Outlets (Normal /Emergency ) for Heater control panel. iii) 415V ±10% ,50Hz±5%, starter feeder for HP Air Compressor , Lube oil pumps , heater etc,As required. iv) 2 nos. AC 115V ±10% ,50Hz±2%, UPS supply for UPS distribution board incomer.	i) As the total compressors are 4 Nos., required HT Feeders will be 4. ii) We understand that all HT ( 11KV /3.3kV as applicabl ) feeders & LT (415V/240V as applicabl) feeders required for IA/PA package shall be provided by Owner. Please confirm.	i) Noted ii) Confirmed.However bidder shall provide load list in bid itself.For UPS power only 2 nos incoming supply for bidder's UPS DB has been considered by owner.
48	Design Specification - Electrical (PC183/E/4016/SEC-VI/PART3.3 , REV-0)	4 of 31	1.0 SCOPE	1.5 The owner shall supply & lay all HT power cables from their HT switchboards located in offsite & Utility substation to Motors for main compressor.	We understand that all HT Power cables required for IA/PA package shall be in owner scope. Please confirm.	confirmed
49	Design Specification - Electrical (PC183/E/4016/SEC-VI/PART3.3 , REV-0)	4 of 31	1.0 SCOPE	1.6 The owner shall supply & lay LT power cables and control cables from PMCC/EMPMCC/MCC,UPSDB at offsite & Utility substation to Lube oil pump Motor,Lub oil heaters,Heater control panel ,UPS DB etc.	We understand that all LT Power cables & control cables required for IA/PA package shall be in owner scope. Please confirm.	confirmed
50	Design Specification - Electrical (PC183/E/4016/SEC-VI/PART3.3 , REV-0)	4 of 31	1.0 SCOPE	1.7 Heater Control Panel and UPS Distribution Boards shall be installed in Offsite & Utilities substation. UPS Distribution Boards shall have additional 6 Nos. 32 A Feeders for Owner' use.	Please provide the distance from utilities substation to IA/PA plant battery limit.	For distance please refer plot plan, Also please note that as the incoming cable to UPS DB is not in bidder's scope so actual distance value is not significant.
51	Design Specification - Electrical (PC183/E/4016/SEC-VI/PART3.3 , REV-0)	7 of 31	2.0 BASIS OF DESIGN	2.2 Bidder shall be responsible for obtaining necessary approvals from the statutory authorities e.g. Electrical Inspectorate, PESO as applicable before commissioning of electrical facilities. The CEA clearance for electrical equipment and components as applicable thereof shall be obtained by the bidder.	Bidder will be responsible for the equipment supplied and installed at field by bidder for IA/PA package. Substation approval is not in bidder scope. Please confirm.	Bidder shall be responsible for approval, as required, for equipments provided by bidder.
52	Design Specification - Electrical (PC183/E/4016/SEC-VI/PART3.3 , REV-0)	8 of 31	3.0 AREA CLASSIFICATION	3.1 The hazardous zones, if applicable, within the project area shall be classified according to the requirement of IS/IEC. The bidder shall furnish area classification drawing	We understand that IA/PA plant is located in Safe Area and hence, all the electrical item shall be suitable for Safe Area only. Please confirm.	IA/PA plant is located in SAFE AREA i.e. Non Hazardous area, All the electrical equipments shall be suitable for Safe Area.
53	General Queries			Plant Lighting ,earthing and lighting protection	In the tender document nothing is mentioned about plant lighting ,earthing and lighting protection. We understand that plant lighting, earthing and lighting protection shall be in owner scope. Please confirm	Confirmed, however earthing within the skid for skid mounted equipments shall be in bidder scope.
54	General Queries				Please provide distance between control room & plant.	Tentative distance between control room and IA plant is 700 mtr

PROJECT : COAL GASIFICATION BASED FERTILISER PLANT AT TALCHER, ODISHA  
 NIT No.; PNM/PC-183/E- 4016/NCB Dated 15.07.2022 INSTRUMENT AIR & PLANT AIR SYSTEM  
 SUBJECT : REPLY TO PRE-BID QUERIES : LOT 1 Dated 08.08.2022

SL. NO.	Section. No.	PDF Page No.	CLAUSE NO. & Heading	SUBJECT	Bidders's Query	PDIL/TFL's Reply
55	General Queries				We understand that shed for Air Dryers shall be in Owner scope. Please confirm.	confirmed, Shed for IA & PA system is in owner's scope. Equipment layout and details of EOT Crane shall be provided by bidder
56	PC183/E/4016/SEC-VI/PART-2.0, REV-0	Sheet 3 of 10	2.1 Design Capacity	Please provide the ambient temperature of the site.	Please confirm the ambient temperature of the site.	Please refer S.NO.10
57	PC183/E/4016/SEC-VI/PART-1.0, REV-0	Sheet 3 of 13	2 Scope of work	The Bidder's scope of work shall include detailed design, engineering, manufacturing, procurement, inspection, testing, painting, supply, erection, commissioning, performance testing at site and handing over of Compressed air package on turnkey basis, along with associated electrical, instrumentation, structural, architectural, piping and insulation works etc. complete in all respects as detailed in the enquiry document i.e. Design & Engineering, procurement, supply, construction & erection, Testing, pre-commissioning, commissioning including , Mechanical, electrical & Instrumentation works as a <b>single point responsibility Vendor (SPRV)</b> ,	As per this clause, complete scope including, electrical & instrumentation work is in bidder scope, however in the detail scope of work for various verticals like electrical, instrumentation, it is mentioned that HT Panels, LT PMCC Panels, Power & Control Cables etc. will be supplied & installed by customer only. Please confirm the scope of work for this package & clarify the battery limits.	Refer clause no 1.0 of Design specification - Electrical of NIT for bidder's scope of supply/work. Instrumentation Reply :- Please refer NIT scope in page no 719 of 1064 where Instrumentation work is clearly mentioned in tabular form.
58	PC183/E/4016/P-VI-SEC-3.2.2, Rev-P	Sheet 8 of 10	3.4 EOT Cranes	Bidder to provide EOT Cranes of adequate capacity in Compressor House and other location wherever required for ease in operation and maintenance activities . Cranes to be provided in nearest multiple of 5 Metric Tonnes considering maximum weight to be lifted. Relevant Indian/ ISO Standards to be applicable for EOT Crane. All statutory	All civil & structural buildings are in Owner's scope. Thus please provide the list of buildings where we need to consider EOT Cranes. Please also confirm the scope of crane beams & support.	Please consider the EOT for compressor package, All civil & structural buildings are in Owner's scope
59	PC183/E/4016/SEC-VI/Part-3.3, R-0	Sheet 4 of 31	1.3 Electrical Scope	The minimum scope of work shall include supply, Installation, Testing & commissioning of the following:- <ul style="list-style-type: none"> <li>• Motors</li> <li>• Local control stations for motors</li> <li>• UPS Distribution Boards</li> <li>• FCMA based starter for HV Motors</li> <li>• Electric Heater &amp; control panel for Air dryer system</li> </ul>	We have consider following items in the scope of electrical work. Motors Local control stations for motors UPS Distribution Boards FCMA based starter for HV Motors Electric Heater & control panel for Air dryer system Apart from the above items all other electrical items (supply & installation) will be	Please refer complete Design specification - Electrical of NIT for bidder's scope of electrical supply/work
60	General				Please provide Battery Limit tie in points along with distance.	Refer Overall plot plan enclosed with NIT. Tie in point level & coordinates shall be finalised during detail engineering.
61	Drawing				Please provide the detail layout of compressor house	As per bidder's Engg and same shall be finalised during detail engineering.
62	PC183/E/4016/P-VI-SEC-3.2.2, Rev-P	Sheet 9 of 10	4 Third Party Inspection	Machines shall be inspected by Third Party Inspection Agency (Lloyds/BV/TUV/PDIL). The inspection and testing shall be in accordance with the all relevant codes, standards, specifications.	Please provide the list of machines where you need TPI, rest of the equipment will be taken care by our own inspection team.	Where inspection is required for complete unit, TPI presence will be must there.