

**REPLIES TO PRE BID QUERIES LOT-3 DATED - 06.05.2022**

**NIT NO : PNMM/PC-183/E- 4013/NCB**

**SUB : SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF FLARE SYSTEM**

S.NO.	SECTION NO.	PAGE NO.	CLAUSE NO.	SUBJECT	PRE BID CLARIFICATIONS	PDIL REPLY
1	IV	352	5	Scope of services	1.please confirm the existing fire water ring header distance from stack base. 2.please confirm the requirement of common fire water line for all the three flare system or separte fire water line.	1. All required fire water facilities inside vendor's package battery limit shall be in bidder's scope. At least one Fire water tie-in connection shall be provided at package B/L by Owner. 2. Inside bidder's battery limit, hence shall be decided during detail engineering.
2	IV	353	5.2	Ground Winch	We are considering 2 nos. electrical type ground winches with steel wire rope in our scope of supply please confirm.	Query already replied in Lot-1. Please refer Lot-1 pre-bid replies. NIT conditions shall prevail.
3	IV	365	6.4.2	LPG Fuel Gas	Please confirm the backup hours to claculate the no. of cylinders.	Requirement of fuel gas and other required utility shall be provided by bidder. Hence, backup hours shall be finalized during detail engineering.
4				FFG Location	As shown in plot plan vendors scope start 35m distance from center of stack hence we are considering FFG at 35m & all its related piping fom 35 meter to stack base is in supplier scope please confirm clearly, please share the revised plot plan.	Ignition panel should be installed at ground level at a safe distance from the flare stack. Location of FFG panel shall be such that the pilot flame is visible from it.Bidder to quote accordingly.  Holding pond, filter water storage tank and other storage facilities by other package contractor, are tentatively under planing for locating outside flare radius 90m. Amendment for revised plot plan shall be issued shortly, if required.
5				Scope of Work - Instrumentation	New bidders PLC shall communcate with customer DCS through Modbus/TCPIP. Customer to provide communiacion cable along with accessories between new PLC to DCS and logic development in DCS is in customer scope. Please confirm.	RS-485 with interconnection cable of 200 meter shall be provided for interfacing with client DCS.
6				General - Layout	Please provide tie in connections. Its required for calculations at pre bid stage only.	Amendment for piping tie-in connection drg. shall be issued shortly, if required.
7				General	Please share final plot plan / Amendment for scope clarity.	Holding pond, filter water storage tank and other storage facilities by other package contractor, are tentatively under planing for locating outside flare radius 90m. Amendment for revised plot plan shall be issued shortly, if required.
8		4 of 34	1.0	Flare Stack items	According to tender above 900 mm diameter supplier shall considered Molecular seal & below that supplier shall consider Velocity seal please confirm.	NIT conditions shall prevail.
9		10 of 34	-	Seal Drum	The same need to be decide at pre bid stange only as it has maximum price implications. As per gas composition designer will decide water seal drum is required or not. WSD is secondary air ingress protection system if you required WSD then clearly mention it is required neither during detail engineering its impact on cost.	Query already replied in Lot-1. Please refer Lot-1 pre-bid replies. NIT conditions shall prevail. Based on the composition & conditions provided in NIT, bidder to decide the requirement of WSD as per relevant standard & theri best engineering practice.
10		12 of 34	Table-4 (sr. no. 4 & 5)	Pressure at vendor B/L.	It is required for the fuerht calculation. Please clear the operating pressure at the inlet of each flare KOD.	Refer issued Amendment
11		24 of 34	6.3.4	Ammonia Flare KO Drum	Please confirm diuring pre bid stage only as accordingly we will work for vertical KOD, there is lot of deisgn changes based on the orientation of the KOD and huge price implication on the project.	As this is part of detail engineering. Hence, shall be finalized during detail engineering.
12		-	Note-3	Drain Connection	Please provide tie in point connections.	Amendment for piping tie-in connection drg. shall be issued shortly, if required.
13		-	Note-12	Ultrasonic Flow meter with transmitter	Please confirm no. of ultrasonic flowmeter in pre engineering. It will cause huge impect on commercial offer (Price).	Query already replied in Lot-1. Refer Lot-1 pre-bid replies. Flow transmitter mentioned in Schematic is minimum required, however actual quantity shall be finalized during detail engineering.
14				Tempurge System	According to section 2.1 (page 5) not clear the term purge syatem location please clear	NIT conditions shall prevail. Tempurge facility is in bidder's scope. Hence, location shall be decided by bidder as per their best engineering practice and shall be finalized during detail engineering.
15				KOD location	According to OISD 118 KOD is located at 90 meter from flare system it is ok for you.	Query already replied in Lot-1. Please refer Lot-1 pre-bid replies.
16			-	Enclosures	Material for FFG panel cum ignition panel, Hooter and ACWL Panel enclosure which is installed in Hazardous area considered LM6 (Die cast aluminum). Please confirm. In the NIT their were not mentioned the MOC of enclosure suitable for Hazardous area.	LM6 is acceptable.
17			PC183-E-4013-SEC VI-9.0, Page 17 of 51 PC183-E-4013-SEC VI, Page 17 of 34	IR CCTV	Please confirm the quantity of CCTV & existing CCTV specification in pre engineering stage. It will cause impect on commercial offer (Price). Also please share existing CCTV network details to work out on technical proposal for communicating new CCTV with existing CCTV network. OR the same is in customer scope.	Min 3 Nos of Camera shall be required.