

REPLIES TO PRE BID QUERIES LOT-6 DATED - 24.04.2023

NIT NO : PNMM/PC-183/E- 4020/NCB DATED 16.03.2023

SUB : SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF FLARE SYSTEM ON PACKAGE BASIS AT TFL

S.NO.	SECTION NO.	PAGE NO.	CLAUSE NO.	SUBJECT	PRE BID CLARIFICATIONS	PDIL REPLY	Bidders Reply	PDIL REPLY
1			GENERAL	Enclosures	Material for enclosure (Local control panel & ignition panel for flare system) in Hazardous area considered LM6 (Die cast aluminum). Please confirm.	Panels / hardwired console shall be fabricated from 3.0 mm thick cold rolled steel sheet	Local control panel & ignition panel for flare system shall be mounted on skid in Hazardous area. So MOC is considered LM6 (Die cast aluminum) which is flameproof. Please confirm.	Noted.
2			PC183-E-4013-SEC VI-9.0, Page 17 of 51 PC183-E-4013-SEC VI, Page 17 of 34	IR CCTV	1) Existing CCTV network details & Panel location and distance required for integration. Please share. 2) Please confirm the Qty. of CCTV. Details required for pre engineering activities.	Existing CCTV network shall be placed in CCR-2 (A&U control room ) .Details & of existing CCTV network shall be provided during detail engineering.Tentative distance between CCR-2 (A&U Control rom) to flare area is approx 1000 meter.Bidder to provide one no. of IR CCTV Camera for the flare main flame visibility for each flare system"	Kindly share existing CCTV network details. Details required for pre engineering activities.	Existing CCTV network is not finalised as of Now.
3			PC183-E-4013-SEC VI-9.0, Page 5 of 51	Power Supply	Single phase 50 Hz UPS power supply 2 nos. feeders at 240V and 1 Nos. feeder at 115V from nearby control room. Please share location & distance from nearby control room to flare stack as its not clear from plot plan. 2 nos. of power feeder 415 VAC 3ph, 4 wire required for Demountable, winch & KOD pumps starter Panel. Kindly confirm the power feeder location & distance upto the flare stack.	Please provide the load details and no. of feeders required.	Load details provided uring detail engineering. 2 nos. feeders at 240V and 1 Nos. feeder at 115V from nearby control room. Please share location & distance from nearby control room to flare stack as its not clear from plot plan. 2 nos. of power feeder 415 VAC 3ph, 4 wire required for Demountable, winch & KOD pumps starter Panel. Kindly confirm the power feeder location & distance upto the flare stack.	UPS feeders (2 nos. feeders at 240V and 1 no. feeder at 115V) shall be provided from DM Plant Substation/Control Room. Please refer Plot Plan for the location. 2 nos. 63A power feeder (Normal Power Supply) at 415V AC 3Ph., 4 wire shall be provided from OSBL Cooling Tower Substation. Please refer Plot Plan for the location. For both the cases as mentioned above only power supply feeders will be provided at respective substation/control room, further distribution shall be in LSTK Contractor's scope (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). Tentatively 1000 mtr shall be the distance between power feeder location and flare stack.
4			GENERAL	DCS System	Please share existing DCS System details for implementing the logic of tempurge & KOD. We will implement the logic in the existing system. However any additional hardware if required, the same is in Customer scope.	Bidder to consider: a) FFG panel shall be local relay based. b) From FFG panel hardware (potential free) contacts shall be provided to New PLC (in Bidder scope) located in CCR-2. 3)Logic shall be impemented in new PLC.	Implementing the logic in Existing DCS System for tempurge system & KOD is not in AWL scope. Kindly confirm.	All Logic shall be implemented in New PLC.
5			PC183-E-4013-SEC VI-9.0), Page 17 of 51.	CCTV	Please provide the tentative distance of existing CCTV network/Panel to be considered for connection to new IR CCTV Camera connection.	Existing CCTV network shall be placed in CCR-2 (A&U control room ) .Details of existing CCTV network shall be provided during detail engineering.	Kindly share existing CCTV network details. Details required for pre engineering activities.	Existing CCTV network is not finalised as of Now.

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6			PC183-7517-0046, Note-12	Flowmeter	We have considered Ultrasonic Flow transmitter for each stream. Pleasae confirm. Please share the requirement / Specifications of ultrasonic flow transmitter or we can considered as per AWL standard.	1.No.of Ultrasonic shall be provided during detail engg. 2.For flare : Ultrasonic flowmeter Dual path, with accuracy of 2%. 3. Output shall be 4-20mA HART latest . 4.Technical specifications & datasheet of Ultrasonic flow meter shall be provided during deatail engineering.	Noted, Kindly confirm No.of Ultrasonic Flow transmitter. We have considered Ultrasonic Flow transmitter for each stream. Pleasae confirm.	Noted. However, Deatil Engineering activity to be done by Bidder.
7			PC183-E-4013-SEC VI, Page 27 of 34 PC183-E-4013-SEC VI-9.0, Page 23 of 51	Thermocouple	In doc. No. PC183-E-4013-SEC VI, Page 27 of 34 mentioned 2 nos. of thermocouple to be provided for each pilot & doc. PC183-E-4013-SEC VI-9.0, Page 23 of 51 One number Duplex K Type Thermocouple for each pilot. Please confirm the no. of thermocouple for each pilot.	no. of thermocouple for each pilot shall be discused during detail engineering	Please confirm the no. of thermocouple for each pilot. Details required for pre engineering activities.	Deatil Engineering activity to be done by Bidder.
8			Reference from PID PC183-7517-0046, Sheet 1	Level Measurement	According to our previous experiance & our design standard , level measurement is not required for Molecular seal drain. Kindly confirm.	As per PID (PC183-7517-0046, Sheet 1) Diaphragam seal type level transmitter shall be provided for seal drain.	We have already provided u loop on molecular seal drain line to maintain a certail height of the water & when it cross, automatically water overflows through drain. So, as per our experiance we will not recommend LT on molecular seal drain line.	Noted.
9			GENERAL	DCS	Please provide Make, model, version for flare package integration	New PLC shall be considered for Flare package .	Noted, Implementing the logic in Existing DCS System for tempurge system & KOD is not in AWL scope. Kindly confirm.	All Logic shall be implemented in New PLC.
10			GENERAL	Flamable gas detector	We have considerefd Gas detector 6 nos. with manual call point, hooter & beacon. All the signals are going to the new PLC and logic will be developed in the PLC. Please confirm.	confirm, However no of gas detector shall be reviewed during detail engineering.	Please confirm the no. of gas detector. Details required for pre engineering activities.	Deatil Engineering activity to be done by Bidder.
11			GENERAL	Flow Instrument	In 7.0 Field instrumen mentioned Rota meter (metal tube) for pilot gas flow indication required and 6.3.5.2 Flame Front Generator Panel mentioned, Orifice for flow measurement on fuel gas line and Instrument air line, which is contradictory. Kindly confirm.			Rota meter (metal tube) for pilot gas flow indication required