

Syama Prasad Mookerjee Port, Kolkata
HALDIA DOCK COMPLEX

AN ISO-9001:2015 ORGANISATION

Plant & Equipment (P&E) Division

Operational administrative Building (1st Floor),
Chiranjibpur; P.O.: Haldia, Dist.: Purba Medinipur,
West Bengal, Pin – 721 604.



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No. SDM(P&E)/1077/864

Dated:- 14.01.2021

'REQUEST FOR SUBMISSION OF BUDGETARY OFFER'

SUB :- LPG Loading Facility at Haldia Dock Complex, SMP, at Haldia.

Ref :- Earlier letter no. SDM(P&E)/1077/827 dt. 05.01.2021

Please be informed that we would like to install L.P.G. handling facility at Haldia Dock Complex, SMP, at Haldia. Detailed scheme and list of different Mechanical and Electrical Machineries are enclosed herewith. In view of above, you are requested to submit your budgetary offer for all mechanical and electrical components in this regard.

Budgetary offers (as per the enclosed Annexure-A), along with comments / suggestions (if felt necessary), are invited from experienced / reputed firms, for the subject work, is extended upto 22.01.2021.

Enclo :- A/a.

(S.Chakrabarty)

Sr. Dy. Manager (P&E),
for General Manager (Engg.),
Haldia Dock Complex,
Syama Prasad Mookerjee Port, Kolkata

Budgetary Offer

For

LPG Loading Facility at Haldia Dock Complex, SMP, at Haldia

(BILL OF QUANTITIES)

ANNEXURE-A

SL.NO.	DESCRIPTION	UNIT	Estimated QTY	Budgetary rate per unit (in Rs.) (excluding GST)	AMOUNT (in Rs.) (excluding GST)
1.0	MECHANICAL EQUIPMENTS & PIPELINE				
1.1	LPG GAS Compressor	Nos.	2		
1.2	Air Compressor with Drier	Nos.	2		
1.3	Air Receiver	Nos.	1		
1.4	LPG / VPG / Utility Pipeline with Valves	LS	1		
1.5	ROV / Control Valves / EFCV	LS	1		
1.6	Catwalk / Crossover (Inside Gantry for Loading)	LS	1		
1.7	Swing ladder/Crossover (Inside Gantry for Loading)	Nos.	32		
1.8	Service Water Pumps & piping	LS	1		
1.9	LPG Pumps for LPG Transfer	Nos.	2		
1.10	LPG Loading Arms	Nos.	64		
	Total of 1.0	INR			
2.0	FIRE PROTECTION SYSTEM & GAS DETECTION SYSTEM				
2.1	FIRE PROTECTION SYSTEM				
2.1.1	Fire Water tanks(1800 KL)	LS	2		
2.1.2	Fire Pump (410 M ³ /hr.)	No.	3		
2.1.3	Jockey pump & Security air Compressor	No.	2		
2.1.4	Electrical & Instrumentation	LS	1		
2.1.5	Hydrant/ Monitor with Piping, valves & all accessories	LS			
2.1.6	Water Spray with QB detection system				

SL.NO.	DESCRIPTION	UNIT	Estimated QTY	Budgetary rate per unit (in Rs.) (excluding GST)	AMOUNT (in Rs.) (excluding GST)
2.1.6.1	LPG pump and Compressor shed & Mounded Bullet	M ²	200		
2.1.6.2	Wagon Loading gantry	M ²	2415		
2.1.7	Deluge Valves with Trim assembly	Nos.	13		
2.1.10	Deluge Valve Panel	Nos.	1		
2.1.11	Mechanical Interlock system	LS	1		
2.1.12	Electrical Interlock System	LS	1		
2.1.13	Buffer Air receiver	Nos.	3		
2.1.14	Cabling Work with Tray	LS	1		
2.1.15	RCC Pedestal	LS	1		
2.1.16	Structural Work	LS	1		
2.1.17	Mimic panel & Cabling	Nos.	1		
	Total of 2.1				
2.2	OTHER SYSTEMS				
2.2.1	Gas Monitoring System	LS	1		
2.2.2	Fire Alarm System	LS	1		
2.2.3	Emergency Trip Button Systems	LS	1		
2.2.4	PA / paging / Intercom System	LS	1		
2.2.5	CCTV Surveillance System	LS	1		
2.2.6	Safety & Security equipment	LS	1		
	Total of 2.2	INR			
	Total of 2.0 (i.e. 2.1+2.2)	INR			
3.0	ELECTRICALS WORKS				
3.1	Temporary power connection (excl. sec. deposit)	LS	1		
3.2	Vacuum Circuit Breaker (VCB)	LS	1		
3.3	Transformer				
3.3.1	Power	LS	1		
3.4	Generator Sets				
3.4.1	Power / main / Emergency	LS	1		
3.4.2	Emergency	LS	1		
3.5	PMCC / LDB/ CAPACITOR panel/ H.T. Panel	LS	1		

SL.NO.	DESCRIPTION	UNIT	Estimated QTY	Budgetary rate per unit (in Rs.) (excluding GST)	AMOUNT (in Rs.) (excluding GST)
3.6	Power Cables with Cable tray & Accessories	LS	1		
3.7	Control cable				
3.8	UPS & Battery Charger	LS	1		
3.9	Electrical FLP Items (Including Junction Box)	LS	1		
3.10	Electrification work (Earthing Work & Lightning protection Work)	LS	1		
3.11	Illumination work (Food light / High Mast Tower)	LS	1		
3.12	Miscellaneous safety fittings	Lot	1		
3.13	Erection, Testing, Commisioning	Lot	1		
	Total of 3.0	INR			
4.0 STORAGE FACILITIES					
4.1	Mounded Storage Facilities	LS	2		
4.2	Painting Of Storage Facilities	LS	2		
4.3	Fire Proofing	LS	2		
4.4	Stairs	MT	5		
4.5	Cathodic Protection System	LS	2		
	Total of 4.0	INR			
5.0 INSTRUMENTATION					
5.1	'SAFETY FITTINGS' for Storage Bullets	Lot			
5.1.1	Rochester Gauge	Lot	2		
5.1.2	Guided Wave Level Transmitter	Lot	2		
5.1.3	Multi Spot Averaging Temperature Sensor	Lot	2		
5.1.4	Vibrating Fork Switch	Lot	2		
5.1.5	Temperature Transmitter	Lot	2		
5.1.6	Pressure Transmitter	Lot	2		
5.1.7	Pressure Gauge	Lot	2		
5.1.8	Pressure Safety Valve	Lot	2		
5.2	FIELD INSTRUMENTS	Lot	1		
5.2.1	Mass flow Meter				
5.2.2	Temp. Transmitter				
5.2.3	RTD With Termowell				

SL.NO.	DESCRIPTION	UNIT	Estimated QTY	Budgetary rate per unit (in Rs.) (excluding GST)	AMOUNT (in Rs.) (excluding GST)
5.2.4	Flame Proof display at each bay				
5.2.5	SMART (Proximity) Card Reader				
5.2.6	Diaphragm type Digital Control Valve				
5.2.7	Push Button Station				
5.2.8	Strainer Cum AE				
5.2.9	RIT				
5.2.10	Pressure Transmitter				
5.2.11	Earthing Relay				
5.2.12	Studs for Earthing relay				
5.2.13	Skid for metering assemblies for each bay				
5.2.14	Cables, cable glands, cable trays, junction box, tube, tube fittings & supports				
5.2.15	In motion Weigh Bridge (4 Load Sensor)				
5.3	INSIDE CONTROL ROOM				
5.3.1	DCS				
5.3.2	Load Rack Computer (Redundent)				
5.3.3	Operator Workstation				
5.3.4	PLC Engineering Workstation				
5.3.5	24 Ports Layer 2 Managed ETHERNET Switch				
5.3.6	Open desk type Console				
5.3.7	24 Ports Layer 2 Managed Ethernet Switch				
5.3.8	Terminal Automation Software for Wagon loading gantry				
5.4	Erection, Testing, Commissioning	LS	1		
	Total of 5.0	INR			
6.0	ADDITIONAL ITEMS				
6.1	Railway Track with all related accessories	LS	1		
6.2	Main Approach Road and Emergency Exist Road With Connection to existing Road	LS	1		

SL.NO.	DESCRIPTION	UNIT	Estimated QTY	Budgetary rate per unit (in Rs.) (excluding GST)	AMOUNT (in Rs.) (excluding GST)
6.3	RRC Box Culvert althrough the Boundary wall	RM	650		
6.4	11 kV power supply from WBSEB with cabling work	LS	1		
	Total of 6.0	INR			
	Total (1.0 to 6.0)	INR			
7.0 MISCELLANEOUS					
7.1	Risk & Environment Studies (0.50%)				
7.2	Consaltancy Charges (2.50%)				
7.3	Third party inspection charges (1.00%)				
7.4	Construction period expenses (1.00%)				
7.5	Statutory Approval (0.50%)				
7.6	Office/ canteen furniture/ equipment (1.50%)				
	Total of 7.0	INR			
	SUB TOTAL (1.0+2.0+3.0+4.0+5.0+6.0+7.0)	INR			
	Contingency	INR	5%		
	Total Project Cost	INR			

(%) of GST -----

Total Project Cost (Inclusive of all) :- Rs. -----

TENDERER'S SIGN WITH SEAL