



ONGC MANGALORE PETROCHEMICALS LIMITED
TENDER FOR
CONSTRUCTION OF NAPHTHA TANKAGES AND ASSOCIATED WORKS



CLARIFICATIONS TO PRE-BID QUERIES GIVEN BY OMPL/MECON

SL. NO.	CLAUSE NO. AS PER TENDER DOCUMENT	BIDDERS QUERY / CLARIFICATION ASKED	OMPL/MECON'S CLARIFICATION
1	Vol.1 , Preamble to schedule of lumpsum prices	Scope of work	MECON /OMPL reiterated the following during pre-bid meeting: I. Contractor scope includes residual engineering , detailed design based on basic drawings provided in tender as per actual site conditions. All the construction drawings shall be prepared by contractor based on actual site condition and the shall be submitted to MECON/OMPL for approval prior to execution. Execution shall be carried out based on approved drawings II. The job will awarded on lumpsum price. These prices will be firm and not subjected to price escalation.
2		Corrigendums	Corrigendum #2 , be uploaded on the websites mentioned in tender. Bidders shall consider the same while submitting their offer.



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CORRIGENDUM#2

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Sl. No.	Description	Volume	Tender Page No.	Clause / Para / Section	Amendment / Addition / Modification / Deletion / Clarification	
1	Motor Operated Valves (MOV's)	Vol.5, Part A (Drawings)	P&ID No. MEC/23RL /01/31/D1/ OM/CT/10 7/R02/A2	MOV's to be added in the following Tank out let pipe lines : <u>(a) For Tank No. 31-FB01-D</u> 1. 18"-P-31-999-1007-A1A 2. 16"-P-31-999-1019-A1A <u>a) For Tank No. 31-FB01-E</u> 1. 18"-P-31-999-1016-A1A 2. 16"-P-31-999-1023-A1A	Addition	The supply and installation of the following MOV's are added in the Bidder's scope of work. 1. 18" NB- 2 Nos. 2. 16" NB – 2 Nos. Note: 1) Supply, installation of Electrical & instrumentation cabling , termination etc. as required for installing additional 4 nos. of MOV's is also included in the bidders scope of Work. 2) Technical Data sheet for motor actuator attached herewith as Annexure-1
2	Pavement/flooring	Vol.3, Part-	Page no.1	Section-1 , Scope of civil works	Addition	The pavement /flooring as required for approach to

Tenderer's Signature with seal

Date :

1 of 2

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CORRIGENDUM#2

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		A (Civil works)	of 8			operating area and around the tanks with 500mm is included in bidder's scope of work
3	Compatible with Existing DCS/PLC system	Vol.4 , Part B (Instrumentation)	1 of 33	Scope of Work	Modification.	All the instrumentation shall be compatible with existing DCS/PLC system. Additional Terminal Blocks (TB) and relays if required shall be included in Bidder's scope of work. Foundation Field bus Junction Boxes shall include P&F / MTL make. The Junction Boxes shall be suitable for Zone I, IIC.

Tenderer's Signature with seal

Date :

2 of 2

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1.0 TECHNICAL DATASHEET FOR MOTORISED ACTUATOR

Make & Model No.	Auma / Rotorq
Type	Motor Operated
On / OFF / Modulating	ON / OFF
Max Allowable pressure	Min Pressure reqd *
Operating Temperature	0 to 55 deg C
Humidity	95%
Enclosure	IP 67 & Exproof
Hazardous area	Zone 1 GR IIC
Operating time	*
Motor speed	*
Power Supply	415V +/- 10%, 50Hz +/- 5%, 3Ph
Handwheel	Required
Torque limit switches	*
Position Limit switches	*
Space heater	Required
Duty	60 starts per hour
LPBS	Required with pushbutton control (4 controls – Open, Close, Emergency stop, stop), lockable L/R selector switch, backlit LCD to display valve position, actuator data, status and faults and motor controls and status indication lamps.
Motor protection	Required, min 3 thermistors on each winding
Starter	RDOL with O/L, S/C, single phasing protections
Control Unit	*
Communication to DCS	FF (Foundation Fieldbus)
Hand wheel for manual operation	Lockable handwheel To be provided
LED indication for direction & continuous position in %	To be provided
Protection	Motor overload, anti hammer, valve jamming & single phasing
Torque & position control	Position settings adjustable for 0 to 100% turn with max angular position. Torque settings adjustable for 40 to 100% rate torque
Selector switch (local / remote)	To be provided
Valve / actuator coupling	*
Motor	3 phase, squirrel cage induction type rated for 15 min & 60 starts per hour, insulation class F or better with temperature rise limited to class B, over heated protected with embedded thermostat
Cable entry	As required along with exproof double compression cable glands and plugs
Earthing	Min 2 nos. of earthing points on actuator

Painting	Coating shall be suitable for saline atmosphere with the following – Primer coating – 2 coats of epoxy resin with micaceous iron oxide Finish Coating – 2 coats of polyurethane micaceous iron oxide Thickness shall be 140µm
Certificates	With valid PESO certificates
Documentation	Wiring diagram, GA Drawing, Datasheet, enclosure protection such as Exproof certificates, IP certificates, detailed Catalog, sizing calculation
Weight of the actuator	*

Note:

1. Sizing calculation shall be submitted and actuator design shall be on Delta P shutoff
2. * - vendor to specify & to be furnished

SS tag plate with tag number and information shall be fixed on the instrument