

Notice Inviting Tender

PURCHASE ENQUIRY NO.: MTPL/QWS/JSG/01	OPENING: 02.12.2025
DEPARTMENT: E&M	CLOSING: 06.12.2025
CLIENT : SOUTH EASTERN RAILWAY CHAKRADHARPUR DIVISION	PERIOD OF WORK: 1 MONTH
NAME OF WORK: Provision of quick watering arrangement at station yard of JSG	

WORK SCOPE

Brief Description about the Project: Control panel for the system should have following features:-
a. CRC sheet fabricated weather proof powder coated from outside.
b. 3 numbers Star delta starters for 40 HP
c. PLC for smart controller. Power saving and proper utilization of all four pump sets
d. VFD for speed control & energy saving
e. Protections-Protections like Single phasing, Under voltage, Over voltage, Earth leakage, Over load protection
f. Indications:- Phase indication, voltage, Current, status On/OFF, fault indication.
g. Cable Entry provision in bottom
h. Dry running protection for pumps
i. Integrated with Smart Control feature to operate system through mobile communication via GSM Network including SMPS power supply.

Sl. No.	Item Description	Qty	UOM	Scope Under
1	Control Panel for Pumps with VFD, PLC, HMI for pumping with APFC and suitable capacitors.	1	Numbers	Vendor
2	SITC of Smart Control to Operate system (Pumps and valves) through mobile Communication via GSM Network including SMPS power supply.This has to be installed in MCC Panel.	1	Per Unit	Vendor
3	SCADA for 500 Tab, data analyser. Along with Report Generation.	1	Set	Vendor
4	Connection & Termination of all Power & Control Cables	1	Lumpsum	Vendor
5	Supply & Erection of Chemical Earthing	4	Numbers	Vendor

INCLUSION & EXCLUSIONS

Sl. No.	Item Description	Qty	UOM	Scope Under
1	Submission of GA, Power & control circuit diagram, complete working principle, architectural drawing, wiring diagram, logic, IO's list, termination schedule, Operation & Maintenance Manual as per technical document for approval.	1	Job	Vendor
2	Pump sets 40 HP (1 set = 3 Nos pump of 40 HP each along with Electric Motor).	2	Set	MTPL
3	Flow meter 150 ITB (Main Bore) with fittings, dia:150 mm.	8	Numbers	MTPL
4	Electrical operated solenoid Valve 150 mm.	8	Numbers	MTPL
5	1.5 Sq mm 6 core copper cable for the control of Flow Meter.	250	Metre	MTPL
6	Cable for Pumps to Panel, 16 sq. mm Copper, 3.5 core including lugs for power cabling from Control	250	Metre	MTPL
7	Control Panel for Pumps with VFD, PLC, HMI for pumping with APFC and suitable capacitors.	1	Numbers	Vendor
8	SITC of Smart Control to Operate system (Pumps and valves) through mobile Communication via GSM	1	Per Unit	Vendor
9	2 KVA Industrial UPS to give backup of minimum 2 hrs.	1	Numbers	MTPL
10	SCADA for 500 Tab, data analyser. Along with Report Generation.	1	Set	Vendor
11	Supply of PC with Core i5 processor, Key Board, Printer, allied accessories for communication.	2	Numbers	MTPL
12	Supply, Installation, Testing & commissioning of D.G. set of 125 KVA with AMF Panel (Including	1	Set	MTPL
13	Supply of Cross linked Polyethylene (XLPE) insulated PVC outer sheathed armoured with galvanized	75	Metre	MTPL
14	Suction Pressure Transducer with pressure Gauges with fittings.	2	Numbers	MTPL
15	Delivery Pressure Transducer with pressure Gauge with fittings	2	Numbers	MTPL
16	Various type of small cable to connect control panel to UPS, PC and others as per site requirement in	1	Set	MTPL
17	Copper Wire to connect the D.G. control panel & Motors.	100	Kg	MTPL
18	Connection & Termination of all Power & Control Cables	1	Lumpsum	Vendor
19	Supply & Erection of Chemical Earthing	4	Numbers	Vendor

Technical Terms & Condition:

- Work should be covered in the vendor scope complete as shown in the scope of work.
- Work should be completed within 1 month from the date of drawing approval.
- Warranty should be covered for 24 month from the date of successful commissioning for complete MCC cum PLC panel and Automation system.
- Under warranty period if any technical error occurs it can be attended within 2-3 days else SD/Witheld amount as per PO terms will be deducted @500/-per day.
- Vendor Should provide programme backup of PLC & SCADA through email along with passwords if any.
- Vendor should provide Operation Manual in hardcopy & in Soft Copy and also a operational Video to operate SCADA and Through Mobile Application as per Quick Watering approved logic.
- Make should be strictly as per approved make.
- No any deviation as per technical specification is accepted.
- Drawing & Logic as mentioned in the scope serial no. 1, should be submitted for approval within 5 days from the date of Purchase Order.
- Transportation/Frieght for material which are under the scope of vendor will be borne by vendor only.
- Lodging, Fooding or any kind of transprtation will be borne by the vendor.

Commercial Terms & Condition:

- Payment:Terms:** i) 20% advance shall be paid of purchase order value along with PO.
ii) 30% of purchase order value shall be paid on dispatch of complete supply lot of material.
iii) 30% of purchase order value shall be paid on succesful commissioning of the work on joint inspection duly signed by MTPL & S.E.R Jharsugda.
iv) 20% of final amount shall be released on succesful completion of warranty Period.
- Performance Guarantee:** Vendor has to submit 15% of PO value in the shape of PDC Cheque/FDR in the name of Mecco Technologies Pvt. Ltd. as a Performance Guarantee. After succesful completion of the project same will be released to the vendor.
- Security Money:** 5% of PO value as Security Money shall be deducted from each running bill @5% which shall be released after succesful completion of the work.

Note: For any querries related to this enquiry may call to Aarti Sahu Head (Technical & Design) - 8269387953