



To
AGE MES
Hisar

Subject: Budgetary Offer of Lifting pumping scheme & SCADA
Dear Sir

Please go through the following for the offer

SCHEDULE OF WORKS

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate (in. Rs.)	RATE In Figures To be entered by the	AMOUNT Rs.

MANUFACTURERS OF LT CONTROL PANELS

Regd. - Administrative Office :
Prabhu Niwas Building, Near Ranbir (Kalu) Petrol Pump,
Dalhousie Road, Pathankot - 145001.
Tel-Fax : +91 186 2231231

Factory :
F03, F04, F21, Industrial Growth
Centre, Pathankot - 145001
Tel.: +91 92572 17609

Sales Office
202 2nd Floor, Golden Square Building,
Chandigarh, Amabala Highway Zirakpur.

M | +91 94170 21685, +91 94176 01244
E | dvepl@yahoo.in, office@dvepl.com
W | www.dvepl.com



1	Supply, Installation, Testing and Commissioning of PLC (Programmable Logic Controller) with Retardant System Panel floor mounted indoor, Transmitter panel to automatically control the rawwater / sludge water Pumps with ultrasonic sensor to set ON/Off Condition via Data retrieved automatic from sensor to operate the water Supply system & act as a user controlled with Visual Annunciation panel with RF / gprs Transmitter / receiver of complete water supply operation Controlled network. The Panel shall be Floor mounting , Shall be of suitable size made of 2/1.6 mm CRCA sheet Properly powder coated , consisting of following features:- type made up of 2mm CRCA sheet on channel base frame, including Electrical & mechanical Interlocking , Auto to Manual Change over operation in case of PLC failure, LT panel with appropriate size Indoor type panel factory made, weather proof , dust and vermin proof (IP54/IP 42) suitable for 1100 V/440 V grade 3 phase 50 HZ AC supply floor mounted , fabricated out of 14 SWG MS sheet with front door and Side/Back opening having locking arrangement prewired with copper conductor PVC insulated flexible wire size 1.5 sq mm / extension strips and connected with suitable size thimbles , lugs duly painted with siemens grey epoxy powder coating after suitable chemical treatment , legs duly embedded in ground in PCC 1:3:6 type C-1 (using 20 mm graded crushed stone aggregate) of suitable size including locking arrangement suitable for mounting , with required sheet metal enclosures, thimbles , of make dvepl or equivalent make tricolitre, schneider as specified and directed by Engr-in-Charge The firms specified cannot authorize any other vendors to manufacture Panels on their behalf failing which panels so manufactured will not be accepted. The panels manufactured by original manufacturer only(dvepl,tricolite,adlac) will be accepted & factory inspection will be done by GE/AGE at original manufacturer plant only.and all other electric incoming and outgoing connections with PVC insulated multi stranded flexible copper cable of suitable size and PVC flexible conduit medium quality as required . Insulated Busbar of suitable Capacity for 3 phase,, fixed on Insulators, Busbar Should be PVC Sleeved with red. Yellow. Blue Colour, Busbar Support should be of smc/dmc - 1 set. and comprising of the following :- Including Having following Feature & including Following Switchgear.	No	2	500000			1000000
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a	HMI: Multi-panel for operating and monitoring & controlling of Pumps operations, use as thin client for terminal services, remote maintenance and services via the Internet / Intranet/RF interfacing to different manufacturers, display of HTML documents, with pixel-graphics 7"-10.4" TFT- touch display with background lighting, 65536 colors, resolution 640x 480 pixels, MTBF 50000 h, Windows CE operating system, ARM CPU, mouse andcurve functions and bar display, calculation functions, external evaluations with Excel and MS Access, input/output fields, configurable buttons with 16 functions simultaneously, online evaluation using characteristics, Visual Basic Scripting, signalling system with different alarm/message classes, message buffer for 512 entries, 500 process images, 50 archives per project, 10000 entries per archive, recipe memory for 300 recipes, 10 user groups can be set, password protection, 16 online languages, multimedia card data carrier support, time interrupt function for cyclic function processing, display of graphics, bars, predefined texts, buttons. Integrated signalling system with 4000 messages, remote download for configuring USB, MPI, Profibus DP, Ethernet, Modem, http and SD/Multi Media Card, degree of protection IP65 on the front, according to IEC 60068-x, IEC 61994-x, IEC 61131-2, including operating instructions, Compact Flash card, back-up battery; supply and mount ready-to-operate. :- 1 No Make (Schneider / L&T/ ABB)						
b	PLC CPU, Best Performance, ext.Memory, PN, DP:- Central processing unit for the low and medium performance range of the central and decentralized control, programming by means of FBD, LAD, STL in accordance with IEC 61131-5, SCL, CFC, processing times (bin.) 0.05 µs and (floating point arithmetic) 0.45 µs, 256 counters, 384 kB RAM, data blocks 1024, address range 2 kB, 16.384 digital inputs and outputs and 1024 analog inputs and outputs can be parameterized, can be expanded to up to three module racks, operating hours counter, process diagnosticsmessages, start-up function, control of variables, diagnostics buffer with up to 500 entries, routing function, interfaces MPI and DP master, buffering by means of MMC, Profinet CBA communication, hardware clock (real time), CE, UL, CUL, CSA and C-Tick certification, approvals according to EN 55011, EN 60079-15, EN 61000-6-2/-4, IEC 60068-2-6/-27/-29, IEC 60721-3-2/-3, IEC 61000-4-2/-4/-5/-6, mm, including sectional rail for mounting modules as required and Micro Memory Card 2 MB, supply and mount ready-tooperate. :- 1 No Make (Schneider / L&T/ ABB)						

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	<p>LM Device : The LM Module should be a single Module having following features inbuilt without use of any external hardware:</p> <ul style="list-style-type: none">• Load Sharing• On Board Outputs for Load Shedding (For some most Critical Loads, rest could be through PLC interlocking)• Reverse Power Monitoring/Protection• Short Circuit Monitoring/Protection• Over Current Monitoring/Protection• Under/Over Voltage Monitoring• Under/Over Frequency Monitoring• Profibus Communication On Board for Communicating with PLC.• Stand Alone operation; will work without any PLC support (in critical Condition).• Redundant Power Supply for reduced down time• Integrated Buttons to Raise/Lower Frequency <p>Power supply module for compact I/O device, flat design, for snapping onto DIN rail, input voltage 85 – 132 V AC and 170 – 264 V AC, 47/63 Hz, output voltage 24 V DC stabilized and floating, settable output voltage 22 – 29 V DC, residual ripple less than 150 mVpp, status display, soft start function, output current 10 A, integrated fuse, electronic short-circuit protection, electrical isolation primary/secondary, CE certificate, degree of protection IP 20, CE, UL, CSA certification, approvals according to EN 55022, EN50081-1, EN 50178, EN 61000-4-1, EN 61000-6-2, EN 60950, EN 61440, EN 60947-1, IEC 529, IEC 536, ambient temperature 0 – 60°C, mounting bracket; supply, mount ready to operate. :- 1No Make (Schneider / L&T/ ABB)</p>						
c	<p><u>Incoming</u></p> <p>MCB 63 A FP 10 ka having inbuild Over & Undervoltage with communication for inter linking it with smart Link on webapage for laterale use :-Make Schneider/ siemens/ L&T - 1 No</p>						

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D.V. Electromatic (P) Ltd.



AN ISO 9001:2008 CERTIFIED CO.

<p><u>Outgoing</u></p> <p>MPCB TP 2HP with smart link comminution along with single unit stater with in build feature for all proctions Type such as Thermal overload protection Motor overheat,Overcurrent ,Undercurrent,Jam,Long start,Stall,Rapid cycle lockout Phase sequence Rapid restart lockout Phase reversal Phase loss,Phase unbalance Ground current With on/off/trip indicator (No external relays will used) with buscoupler and directly communication with PLC & HMI witout any external deices having Monitoring Type Time device ON</p> <p>Time device switch ON</p> <p>Number of faults</p> <p>Number of switching cycles</p> <p>Number of device power cycles</p> <p>Average current Iavg</p> <p>Average voltage Vavg</p> <p>Max current Imax</p> <p>Max voltage Vmax</p> <p>Active and reactive power with voltage module Active and reactive energy with voltage module True power factor with voltage module- 3 No Make :-L&T/legrand/Schneider</p>						
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a	HMI: Multi-panel for operating and monitoring & controling of Pumps operations,use as thin client for terminal services, remote maintenance and services via the Internet / Intranet/RF interfacing to different manufacturers, display of HTML documents, with pixel-graphics 7"-10.4" TFT- touch display with background lighting, 65536 colors, resolution 640x 480 pixels, MTBF 50000 h, Windows CE operating system, ARM CPU, mouse andcurve functions and bar display, calculation functions, external evaluations with Excel and MS Access, input/output fields, configurable buttons with 16 functions simultaneously, online evaluation using characteristics, Visual Basic Scripting, signalling system with different alarm/message classes, message buffer for 512 entries, 500 process images, 50 archives per project, 10000 entries per archive,recipe memory for 300 recipes,10 user groups can be set, password protection, 16 online languages, multimedia card data carrier support, time interrupt function for cyclic function processing,display of graphics, bars, predefined texts, buttons. Integrated signalling system with 4000 messages, remote download for configuring USB, MPI, Profibus DP, Ethernet, Modem, http and SD/Multi Media Card, degree of protection IP65 on the front, according to IEC 60068-x, IEC 6199-4-x, IEC 61131-2, including operating instructions, Compact Flash card, back-up battery; supply and mount ready-to-operate. :- 1 No Make (Schneider / L&T/ ABB)							
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b	PLC CPU, Best Performance, ext.Memory, PN, DP:- Central processing unit for the low and medium performance range of the central and decentralized control, programming by means of FBD, LAD, STL in accordance with IEC 61131-5, SCL, CFC, processing times (bin.) 0.05 µs and (floating point arithmetic) 0.45 µs, 256 counters, 384 kB RAM, data blocks 1024, address range 2 kB, 16.384 digital inputs and outputs and 1024 analog inputs and outputs can be parameterized, can be expanded to up to three module racks, operating hours counter, process diagnosticsmessages, start-up function, control of variables, diagnostics buffer with up to 500 entries, routing function, interfaces MPI and DP master, buffering by means of MMC, Profinet CBA communication, hardware clock (real time), CE, UL, CUL, CSA and C-Tick certification, approvals according to EN 55011, EN 60079-15, EN 61000-6-2/-4, IEC 60068-2-6/-27/-29, IEC 60721-3-2/-3, IEC 61000-4-2/-3/-4/-5/-6, mm, including sectional rail for mounting modules as required and Micro Memory Card 2 MB, supply and mount ready-tooperate. :- 1 No Make (Schneider / L&T/ ABB)							
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	<p><u>Outgoing</u></p> <p>MPCB TP 15HP with smart link communication along with single unit stater with in build feature for all protections Type such as Thermal overload protection Motor overheat, Overcurrent, Undercurrent, Jam, Long start, Stall, Rapid cycle lockout Phase sequence, Rapid restart lockout Phase reversal, Phase loss, Phase unbalance, Ground current With on/off/trip indicator (No external relays will be used) with buscoupler and directly communication with PLC & HMI without any external devices having Monitoring Type Time device ON</p> <p>Time device switch ON</p> <p>Number of faults</p> <p>Number of switching cycles</p> <p>Number of device power cycles</p> <p>Average current Iavg</p> <p>Average voltage Vavg</p> <p>Max current Imax</p> <p>Max voltage Vmax</p> <p>Active and reactive power with voltage module Active and reactive energy with voltage module True power factor with voltage module- 3 No Make :- L&T/legrand/Schneider</p>					
4	<p>Supply, Installation, Commissioning and testing of high torque motorized valve with gears and adopters self lubricating type, Weather proof with protection against, Over voltage jamming of valve and over current protection with manual bypass arrangement to Open/Close the valve on power failure including taking down complete. Make:- Sasa/Leader/Kirloskar / Rotrak</p>	No	1	88000		88000

MANUFACTURERS OF LT CONTROL PANELS

Regd. - Administrative Office :
 Prabhu Niwas Building, Near Ranbir (Kalu) Petrol Pump,
 Dalhousie Road, Pathankot - 145001.
 Tel-Fax : +91 186 2231231

Factory :
 F03, F04, F21, Industrial Growth
 Centre, Pathankot - 145001
 Tel.: +91 92572 17609

Sales Office
 202 2nd Floor, Golden Square Building,
 Chandigarh, Amritsar Highway Zirakpur.

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 W | www.dvepl.com



	Valve Size 150MM bore Designed line pressure 4 kg/sq cm Operating angle - 90 degree Disc material - CI with nylon coating Valve type -Butter fly valve PN-10 with geared motor on top With SCADA out put POT With anti theft device micro controller based With Torque 35 Nm running time 13s With close off pressure 1200 kpa With operating voltage 230 Vac with 2 in built auxiliary switch, IP 67					
5	Supply,Installation,Commissioning and testing of high torque motorized valve with gears and adopters self lubricating type,Weather proof with protection against,Over voltage jamming of valve and over current protection with manual by pass arrangement to Open/Close the valve on power failure including taking down complete. Make:- Sasa/Leader/Kirloskar / Rotrak	No	1	25000		25000
	Valve Size 50MM bore Designed line pressure 4 kg/sq cm Operating angle - 90 degree Disc material - CI with nylon coating Valve type -Solenoid valve PN-10 with geared motor on top With SCADA out put POT With anti theft device micro controller based With Torque 35 Nm running time 13s With close off pressure 1200 kpa With operating voltage 230 Vac with 2 in built auxiliary switch, IP 67					
6	Supplying , laying and Testing of XLPE Insulated Cable 4 -2.5 Sqmm core armoured cable 1100v grade with stranded copper conductor	RM	300	360		108000
7	Supply and fixing of 600VA Inverter with 12Vdc 88 -100Ah Battery for 8 hour Backup Featured with automatic sense Intelligent Control Smart Charger, Selector Switch for Normal and UPS Mode selection, safety options like High Charging Protection, Deep Discharge Protection, Thermal Protection, Reverse Phase Protection etc. Make:- Luminous, Exide, Microtek, sukam.	No	1	50000		50000
8	Supply,Installation,Commissioning and testing of Ultra Sonic non contact for level monitoring for over head tank Make:- Schneider / Siemens/ABB and consisting of following of features:- Principal-Ultra sonic sound waves water level sensing O/P Pot 4-20 ma/0-20v Data transmitting output port iot operation output port Range 8.00 - 10.00 metres depth Corrosion free Plastic body with pipe fitting.	No	4	65000		260000

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9	<p>Design, Develop, Integrate, Commissioning and Testing of SCADA system for Master Monitoring station with Automatic monitoring of 4 No Lifting Station to operate the system and act as a user controlled with visual annunciation panel with wired transmitter/receiver unit modem GSM/ GPRS/ internet/ RF based network for SCADA Remote monitoring & operation of complete Pumping Station with command from PLC/microprocessor for switching on & off of Pumps set as per the sewerage system along with control feed back from relays from all Station and should be capable to over ride the system manually in case of Auto failure. The system should be backed up with UPS supply for minimum half an hour for delivering on line report in case of power supply failure. The system will also have an display for complete distribution with Visual information for the Pump set status position it should be capable to send SMS for any fault information as per pre defined text for particular tripping with SCADA system. The panel shall be wall/floor mounting and shall be of suitable size made of 2 mm/1.6 mm CRCA sheet duly powder coated. The make of control panel and automation development shall be dvepl/ tricolite/adlac. The specified firm can not authorised any other vendor to manufacture panel on their behalf & purchase vouchers from original manufacturer will only be accepted.</p> <p>The controller/HMI should comply CE, IEC 61131-2 and UL 508, CSA22-2 for industrial control equipment. The programming language of controller should comply IEC 61131-3 The program should be downloadable without any software connection directly. Make of Program logical controller : L&T/ Schneider/ Proface (a) Led Coloured screen display of suitable size of High Intensity along with computer (Complete Set with all accories) to design the graphics for Pumping Stations, indication with flashing mimic, open/close condition and ON/OFF running graphical Mimic. With electrical parameters. (b) Over running controlling of pump set start/stop condition. (c) Single/Reverse phasing, Over/under voltage(OV/UV), Unbalance voltage (UBV), Short circuit(SC), Over Load (OL) protection & alarming through SMS to five mobile numbers. (d) Controller Master Monitoring & Operating Panel should also have following switches/ indicators :- i) Phase indicator R,Y,B - 1 SET ii) All pumps On/Off indicator - 1 SET iii) feeder Line Open/Close indicator - 1 SET iv) Tripping /Empty indicator - 1 SET v) Auto/Manual selector switch - 1 No vi) Automation ON/OFF selector switch - 1 No viii) Manual/Auto operation of breakerswith Toggle switch - 1 No</p>	No	1	750000			750000
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The SCADA system should also have the following :- (a)All data transfer from RCCI control panel, HMI within scada station (b)The system should have the capability to accommodate 50% future expansion. (c)The system is projected to monitor the parameter on Smart panel installed in Lifting station (d)When abnormal condition occur within a process, SCADA system should trigger alarms to notify operators that some thing is wrong. Alarm notifications be personal in the form of audible displays, emails, SMS notifications to more than 05 contact Nos assigned in HMI as directed by Engineer-in-Charge.						
(j) SCADA software which should also be operated, programmed and modified by any agencies other than developer. (k)Operating system, system software and programming shall not be intellectual property of any agency.						

3621000

For D V ELECTROMATIC PVT LTD

Thanks

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