

**OFFICE OF THE EXECUTIVE ENGINEER (Mech.)**  
**IRRIGATION MECHANICAL DIVISION, MOHANIA**

Letter No. 43...../Mohania

Date:- 16-01-2026

**Short Quotation Invitation Notice No.- 05/2025-26**

This Quotation is being invited for - Supply, Installation, Testing, Commissioning and Maintenance of Electrical, Mechanical and SCADA-related works for Radial gate, Left Bank and Right bank canal hydraulic gates with all other allied components for helping estimate preparation of five year operation & maintenance at Durgawati Dam.

This Quotation is being invited from reputed firms/institutions. The Submission of rates under this quotation does not guarantee for the award of work. It is advised to submit their quotation **only** after proper site inspection. Quotation shall be accepted by registered post (Add.: Irrigation Mechanical Division, Mohania, Near Mohania court, Kaimur, Bihar, PIN-821109) or on official Email id- [imd.mohania@gmail.com](mailto:imd.mohania@gmail.com) till date 27.01.2026.

The rate quoted shall be inclusive of transportation charge and all other cost but exclusive of GST & Labour cess.

**The Technical Particulars are :-**

S.No	Description of Items	Unit	Qty	Rate	Amount
<b>Part A :- Electrical Items</b>					
<b>1</b>	<b>Motor and Its component</b>				
a	Provision for Repair, rewinding, overhauling, varnishing and heating of 20 Hp, 3 Ph, 415V SRIM, with unseen items for Radial gate main Hoist System with material complete Job during five years as per specification & direction of E/I.	Job	3		
b	Provision for Repair by rewinding, servicing, overhauling, varnishing and heating of 25 Hp 3 Ph, 415 V Gantry Crane Main Hoist Motor & Brake of Gantry Crane on Dam with material complete Job during five years as per specification & direction of E/I.	Job	1		
c	Provision for Repair by rewinding, servicing, overhauling, varnishing and heating of 5 Hp 3 Ph, 415 V Gantry Crane Auxiliary Hoist Motor & Brake of Gantry Crane on Dam with material complete Job during five years as per specification & direction of E/I.	Job	2		
d	Provision for Repair by rewinding, servicing, overhauling, varnishing and heating of 3 ph 415V 5 Hp Hooter siren Motor on Dam with material complete Job during five years as per specification & direction of E/I.	Job	1		

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e	Provision for Repair by rewinding, servicing, overhauling, varnishing and heating of 1-ph A.C ceiling fan in Dam Control room with material complete job during five years as per specification & direction of E/I.	Job	1		
f	Provision for Repair by rewinding, servicing, overhauling, varnishing and heating of 3 ph, 415V, 5 Hp Motor for hydraulic gate operation at LBC and RBC with material complete Job during five years as per specification & direction of E/I.	Job	3		
g	S.I.T.C of Solenoid coil 220 volt for Hydraulic Motor System as per sample required including removal of old one all complete during five years as per specification and direction of E/I.	Nos.	2		
h	Removal of old VFD & as per sample S.I.T.C of 22 KW, 415 V VFD IP67 of new latest model for individual local control panel for smooth operation of automation/SCADA system all complete during five years as per specification and direction of E/I. (MAKE- Siemens/Schneider)	Nos.	2		
i	S.I.T.C. of 2000W Dynamic Braking Resistor in surplus quantity all complete during five years as per specification and direction of E/I.	Nos.	12		
j	SITC of 1 HP submersible motor complete with starter, cables and delivery pipe connections and all accessories, as per specifications and directions of E/I.	Nos.	1		
2	<b>DG Set and its Accessories</b>				
a	Provision for repair, servicing, overhauling with replacement of necessary parts for smooth working of 100KVA D.G. set already installed on site all complete during five years as per specification and direction of E/I.	Job	1		
b	S.I.T.C of Jumping aluminum silencer pipe for DG Set as per sample required including removal of old one all complete during five years as per specification and direction of E/I..	Nos.	1		
c	S.I.T.C of AVR for D.G. Set of control room as per sample required including removal of old one all complete during five years as per specification and direction of E/I...	Nos.	1		
d	Provision for Repair by rewinding, servicing, overhauling, varnishing and heating of alternator for 15 KVA DG set with cost of material all complete Job during five years as per specification and direction of E/I.	Job	1		
e	S.F.F. of generator silencer pipe for extension of pipe outside the LBC panel room as per sample required including removal of old one all complete during five years as per specification and direction of E/I.	m	3		

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3	<b>Instruments</b>				
a	S.I.T.C. of (0-500V) Analog AC Voltmeter in Panel as per sample required including removal of old one all complete during five years as per specification and direction of E/I.	Nos.	9		
b	S.I.T.C. of (0-100A) Analog AC Ammeter in hoist motor starter panel as per sample required including removal of old one all complete during five years as per specification and direction of E/I.	Nos.	3		
c	S.I.T.C. of Current transformer of similar specification in surplus quantity as per sample required all complete during five years as per specification and direction of E/I.	Nos.	9		
d	S.I.T.C. Masibus 0-20mA, 24V Digital Process Controller as per sample required including removal of old one all complete during five years as per specification and direction of E/I.	Nos.	3		
e	S.I.T.C TRIVECTOR 3-ph Multifunction Meter - Konzerv EM6436 in surplus quantity all complete during five years as per specification and direction of E/I.	Pc	1		
4	<b>Inverter, UPS, Battery and Battery Charger</b>				
a	S.I.T.C. of 5 KVA 1 Ph, Pure sine wave inverter including all required accessories, protection devices and connections, suitable for continuous operation for a period of five years, complete as per specification and direction of E/I.	Set	1		
b	S.I.T.C. of 3 KVA 1Ph, Pure sine wave inverter including all connection accessories, wiring and terminations for LBC sub control panel operation, complete as per specification and direction of E/I.	Nos.	1		
c	S.I.T.C. of 12V, 250Ah tubular battery including all connection accessories for main control operation, after deducting the cost of old battery, complete as per specification and direction of E/I.	Nos.	4		
d	S.I.T.C. of 12V, 80Ah battery including all connection accessories for 15 KVA DG set at LBC sub-panel, complete. after deducting the cost of old battery, complete as per specification and direction of E/I.	Nos.	2		
e	S.I.T.C. of two sets of 12V, 150 Ah flat battery suitable for salient DG set, including all connection accessories, complete as per specification and direction of E/I.	Job	2		
f	Supply of suitable 12V battery charger compatible with installed batteries, complete as per specification and direction of E/I..	Nos.	3		
g	S.I.T.C. of 1500 VA 1- Ph Online UPS for control room equipment, complete with internal batteries, battery interconnections, cabling, accessories and all required works as specified as per specification and direction of E/I.	Nos.	1		
5	<b>Cable</b>				

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	Supply, laying, testing and commissioning of following XLPE insulated, PVC sheathed, conforming to IS standards, including fixing on surface / tray, dressing, clamping, termination with suitable size copper/aluminum lugs, ferrules, glands, testing and all incidental works, complete as per direction of E/I. Approved Make: Polycab / Siemens / Havells.				
a	4C x 20 Sq. mm Al. Conductor unarmored cable	m	50		
b	4C x 10 Sq. mm cu. Conductor unarmored cable	m	150		
c	4C x 4 Sq. mm cu. Conductor armored Cable	m	100		
d	3.5C x 25 Sq. mm Al. Conductor unarmored cable	m	50		
e	3C x 2.5 Sq. mm Flexible Copper Conductor PVC sheath Flat Cable (Black)	m	30		
f	3C x 1.5 Sq. mm Flexible Copper Conductor PVC sheath Flat Cable (Black)	m	60		
g	2C x 2.5 sq. mm Copper Conductor armored cable	m	200		
j	2C x 2.5 sq. mm Copper Conductor armored cable	m	331		
k	2C x 1.5 sq. mm Cu. Conductor Flexible Cable	m	100		
l	S.F.F. of CAT 6A 6C x 2.5 sq. mm cable as per suitable for control and communication applications, complete as per direction of E/I	m	100		
6	<b>Supply of Wire/Cable- ISI marked, FRLS PVC insulated single core copper conductor cable 1.1KV</b>				
a	0.75 Sq. mm GREEN	m	180		
b	1 Sq. mm GREY	m	300		
7	<b>Conduits and Wiring accessories</b>				
a	S.F.F. of 4 way PVC junction Box	pc	50		
b	S.F.F. of 5 way PVC junction Box	pc	50		
c	S.F.F. of Indicator lamp for switch board	Nos.	50		
d	Supply of PVC Electrical Insulation Adhesive tape	Pc	100		
8	<b>S.F.F. of Switchgears and accessories</b>				
a	S.F.F of HRC Fuse 32 A/ 50 A/63 A/100A for control panel of Radial gate. (20 pc for each )	Nos.	80		
b	2A 1P MCB C Curve, 10KA	Nos.	13		

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9	Panel Accessories				
a	S.F.F. of door lock of local control panel of gate with IP 67 Protection of panel as per sample required including removal of old door lock all complete as per specification and direction of E/I.	Nos.	20		
b	S.I.T.C. of Red, Yellow, Blue & Green Indicator	pc	100		
c	S.I.T.C of Voltmeter selector switch	pc	12		
d	S.I.T.C of Ammeter selector switch	pc	3		
e	S.I.T.C of 6A, 1P, 3 way Rotary/Phase selector switch	pc	6		
f	S.I.T.C of Emergency Push button	pc	3		
g	S.I.T.C of Red, Green and Black- Push button	pc	30		
h	S.F.F. of single channel relay (plug-in relay)for local control panel, control panel etc. as per sample required including removal of old one all complete during five years as per specification and direction of E/I.	Nos.	24		
i	S.F.F of connector/lugs of different size for different wires cables as per sample required including removal of old one as per specification and direction of E/I	Nos.	100		
j	S.F.F. of Supply and fixing of 32 A, 240 V AC heavy-duty toggle switch with built-in indicator lamp, suitable for flush/surface mounting, housed in robust polycarbonate/metal plate, complete with back box, terminal connectors, wiring connections, earthing, testing and commissioning, as per sample required including removal of old one all complete during five years as per specification and direction of E/I.	Nos.	3		
k	S.F.F. of 5A 240 V relay as per sample required including removal of old one all complete during five years as per specification and direction of E/I.	Nos.	4		
l	S.F.F. of 6.3-10A Overload relay as per sample required including removal of old one all complete during five years as per specification and direction of E/I.	Nos.	5		
m	S.F.F. of 30-38A Overload relay as per sample required including removal of old one all complete during five years as per specification and direction of E/I.	Nos.	6		
n	S.F.F. of power contactor with extension contacts, suitable for 415 V, 50 Hz AC supply, with current rating as required, comprising main contacts and auxiliary NO/NC extension contacts, coil voltage suitable for control circuit (230 V/415 V AC as specified) including fixing accessories, wiring connections, lugs, ferrules, labeling and making good of panel openings, complete with labour, transportation and all incidentals, as per sample required including removal of old one all complete during five years as per specification and direction of E/I.	Nos.	6		

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o	S.F.F. of 40A contactor as per sample required including removal of old one all complete during five years as per specification and direction of E/I.	Nos.	6		
p	S.F.F. of 100 A MCCB with rotary handle as per sample required including removal of old one all complete during five years as per specification and direction of E/I.	Nos.	3		
10	<b>Lightning Protection System with Chemical Earthing Arrangement</b>				
a	Labour charge for excavation and fill up of excavated earth Supply of Solid Copper Earth Electrode, Earth Pit Cover and Complete Lightning arrangement work including Earth inspection pit Test terminal as per direction of E/I	Job	1		
b	Supply, installation, testing and commissioning of Type-2 Surge Protection Device (SPD) suitable for protection of 22 kW VFD operating on 415 V, 3-phase, 50 Hz system against lightning-induced and switching surges. SPD shall be modular, plug-in cartridge type with visual indication of protection status and provision for potential-free remote signal contact complete as per direction of E/I	Job	1		
11	<b>Safety Accessories &amp; Equipments</b>				
a	Supply of Electrical Insulation Rubber Mat 11 KV/Class B (1m x 5m x 2.5mm) complete in all respects including all materials, labour, and transportation charges.	Nos.	25		
b	Supply of Safety Gadget (Helmet, Boot, Hand Gloves) for H.T. line complete in all respects including all materials, labour, and transportation charges.	Set	10		
c	S.F.F. ABC/CO2 type Class-C rating Fire Extinguisher (6 kg each) ISI-marked, 6 kg capacity suitable for electrical fire, with wall bracket and pressure gauge. complete in all respects including all materials, labour, and transportation charges.	Nos.	4		
d	Refilling ABC/CO2 type Class-C rating Fire Extinguisher (6 kg each) ISI-marked, 6 kg capacity suitable for electrical fire, with wall bracket and pressure gauge.	Job	10		
e	Supply and fixing of 'DANGER' plate for 415 V system, fabricated from vitreous enameled mild steel/porcelain/AC sheet of minimum size 200 mm x 150 mm (approx.) with red inscription 'DANGER 415 VOLTS' and skull-and-bones symbol in bold letters on white background, plate thickness Not less than 1.6 mm, corners rounded, holes provided for fixing, complete with GI screws, nuts, washers and suitable support on electrical panel/pole/equipment including labour, transportation and all accessories, conforming to IS:2551 and relevant IE rules, as required.	Nos.	20		

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f	Electrical Shock Treatment Laminated Chart displayed near control panel for emergency guidance.	Nos.	5		
12	SCADA (Automation System)				
a	S.F.F. of SMPS 10A, 24 volt DC suitable for control panel applications, including replacement during contract period of five years, removal of existing SMPS, fixing, wiring, testing and commissioning, complete, as per approved sample, specifications and directions of E/I.	Nos.	5		
b	S.F.F. of 8 Channel relay board suitable for control panel applications, including replacement during contract period of five years, removal of existing relay board, fixing, wiring, testing and commissioning, complete, as per approved sample and directions of E/I.	Nos.	4		
c	S.F.F. of HMI Scanner suitable for SCADA sub-panel at LBC, including replacement during contract period of five years, removal of existing HMI scanner, fixing, configuration, testing and commissioning, complete, as per approved sample and directions of E/I.	Nos.	1		
d	S.F.F. of TP-LINK 16 Ethernet Port/switch, industrial grade (TP-LINK or approved equivalent), including replacement during contract period of five years, removal of existing switch, fixing, wiring and testing, complete, as per specifications and directions of E/I.	Nos.	1		
e	S.F.F. of Data transfer antenna suitable for SCADA telemetry application, including replacement during contract period of five years, removal of existing antenna, fixing, alignment and testing, complete, as per approved sample and directions of E/I.	Nos.	2		
f	S.F.F. of Radar for water level sensor as per sample including replacement during contract period of five years, removal of existing sensor, fixing, calibration, testing and commissioning, complete, as per approved sample and directions of E/I.	Nos.	2		
g	S.F.F. of Photo electric Sensor for hydraulic gate position sensing (VDM 28-08-L1-10173 or approved equivalent), including replacement during contract period of five years, removal of existing sensor, fixing, alignment, testing and commissioning, complete, as per specifications and directions of E/I.	Nos.	3		
h	S.F.F. of heavy-duty, waterproof limit switch for radial and hydraulic gate operation, including replacement during contract period of five years, removal of existing limit switch, fixing, wiring, testing and commissioning, complete, as per approved sample and directions of E/I.	Nos.	100		

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i	S.F.F of Encoder for radial gate position data for SCADA system (ENISBDL-510CAS or approved equivalent), including replacement during contract period of five years, removal of existing encoder, fixing, calibration, testing and commissioning, complete, as per approved sample and directions of E/I.	Nos.	2		
j	Annual Maintenance Charge (AMC) of SCADA system and all its components including deployment of field/automation engineer, local travel, lodging, boarding, periodic servicing, testing and troubleshooting, complete..	Job	1		
k	Providing and maintaining broadband internet connection of high speed (GBPS range) per year for smooth SCADA operation, monitoring and data transfer, complete.	Job	1		
l	Supply, installation, activation, and configuration of licensed antivirus software compatible with SCADA systems, including real-time protection, malware/ransom ware security, regular updates, and minimum 1-year validity. Complete as per direction of E/I.	Job	1		
m	Supply of handheld walkie-talkie set with minimum 3 km communication range in open area, rechargeable battery, clear audio, channel selector, and charging adapter. Make and model to be approved.	Set	1		
n	Supply of HDMI cable of suitable length, high-speed, supporting Full HD/4K resolution, with proper connectors and insulation, of approved quality.	m	30		
o	Supply of compatible power adapter for IT/SCADA equipment equivalent specification approved make.	Nos.	10		
p	Supply of mouse and keyboard set with Make: Dell /HP/Zebtronics/Logitech or equivalent approved.	set	2		
q	Supply of 21.5" monitor (Full HD) and branded desktop CPU suitable for upgraded SCADA system, with minimum configuration as below: Processor: Intel Core i5, 13th Generation RAM: 16 GB DDR4 or higher Storage: 512 GB SSD Graphics: Dedicated or integrated graphics compatible with SCADA applications Operating System: Genuine Windows OS pre-installed Ports: HDMI/VGA, USB, LAN Complete with keyboard, mouse, drivers, and all accessories, installed and tested in it for upgraded SCADA system compatibility	Set	1		
s	Supply of approved quality LAN cable, complete Job as per specification & direction of E/I.	m	100		

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t	Supply of dual-band Wi-Fi router (2.4 GHz & 5 GHz) of TP-Link / D-Link or equivalent, suitable for system up gradation, high-speed data transfer, stable connectivity, and reliable performance for minimum 5-year operational span, complete with power adapter and accessories. complete Job as per specification & direction of E/I.	Set	2		
13	<b>Miscellaneous Items</b>				
a	Provision for replacement of old printer with new laser type printer of reputed brand with material complete Job as per specification & direction of E/I.(Make-HP/CANOS.N/Brothers)	Nos.	1		
b	S.I.T.C of Air conditioner of 1.5 TR (Hot & cool) for control room at dam. with Stabilizer of reputed brand with material complete job during five years as per specification & direction of E/I.	Nos.	1		
c	Supply of distilled water for battery use, including all transportation charges during five years as per specification & direction of E/I.	Liter	500		
d	Supply of 1 torch and different sizes batteries @ 15 numbers per month for a period of 3 months, of approved make.	Job	1		
e	Supply of electrical extension board complete with insulated cable, multi-pin sockets, switch, and plug, of approved quality.	pc	2		
f	Repairing and maintenance of existing electrical wiring for light points, power points and 5A socket outlets at Main Control Room, LBC and RBC sub-panel working areas, including checking, rectification, replacement of defective accessories and making good, complete as per direction of E/I.	Job	2		
g	Supply, fixing and electrical connection of junction box at bottom of each light pole, including 6A SP MCB, connectors, wiring, glands and accessories, complete as per direction of E/I.	Nos.	24		
h	Supply, fixing and electrical connection of distribution board fitted with 16A DP MCB, including internal wiring, mounting, testing and commissioning, complete job as per direction of E/I.	Nos.	1		
<b>Part B :- Mechanical Items</b>					
14	<b>Radial Gate- Hoist System, Gantry Crane</b>				
a	Provision for Repair and Maintenance of Hand Operation clutch system for 3 radial gate hoist system with new one as per sample required with material complete Job with materials, labour, dismantling, refitting, alignment, testing and commissioning, during the contract period of five years, as per approved sample, specifications and directions of E/I.	Job	1		

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b	Providing, supply and installing Gate limit mechanism - Gate Position Meter-Dial Indicator as per sample required including replacement during the contract period of five years, removal of existing mechanism, fixing, calibration, testing and commissioning, complete, as per approved sample, specifications and directions of E/I.	Nos.	3		
c	Providing and supply special quality grease and carrying out greasing of machinery parts and all relevant equipment, including cleaning of surfaces prior to greasing and application as per manufacturer's recommendation, complete, as per directions of E/I	Kg	60		
d	Providing and Supply of diesel for operation of D.G. set from 1st June 2026 to 31st march 2031 including transportation, handling and all incidental charges, based on consumption of 10 liter per running hour, complete, as per directions of E/I	Liter	1500		
e	Provision for servicing and routine maintenance of 100 kVA D.G. set, including supply and replacement of engine oil (Mobil 20W/40 or approved equivalent), diesel filter, oil filter, air filter, coolant and all necessary consumables, including checking, testing and satisfactory operation, complete, as per manufacturer's recommendations and directions of E/I.	Job.	1		
f	Provision for servicing and routine maintenance of 15 kVA D.G. set, including supply and replacement of engine oil (Mobil 20W/40 or approved equivalent), diesel filter, oil filter, air filter, coolant and all necessary consumables, including checking, testing and satisfactory operation, complete, as per manufacturer's recommendations and directions of E/I.	Job.	1		
g	Providing and applying of caridium compound for steel rope drum of radial gate ( 32m x 4 x 2 sides) for 3 Nos. gates and gantry crane (60 m x 2 sides), including surface cleaning, application and servicing of rope lugs, complete, as per directions of E/I.	M	888		
h	Providing and filling approved grade gear oil for gearboxes of radial gate worm gear system, dial indicator gear unit, gantry crane worm gear leg and head unit, including draining of old oil, cleaning of gearbox and refilling to required level, complete, as per directions of E/I.	Liter	50		
i	Servicing, testing and gas refilling of 1.5 TR split air-conditioner installed in control room, including cleaning of indoor and outdoor units, checking electrical connections, pressure testing, refrigerant gas topping/refilling as required, trial run and satisfactory performance, complete, as per directions of E/I	Job.	1		
j	Repair, Maintenance and Radial Gate, hoist bridge unit, Plumber block, Drum bag wiser, Brake shoes, Repair of Coupling dial indicator unit, Hydraulic Brake, Magnetic Brake, Trunion, Guide roller alignment etc. each year servicing including all labour charges.	Job.	1		

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k	S.F.F. of Magnetic brake assembly for radial gate hoist system, including fixing, adjustment, testing and commissioning, complete, as per specifications and directions of E/I.	Set	3		
l	S.F.F. and replacement, whenever required, of Z-type rubber seal for radial gates, of approved quality and appropriate size, for gates having clear opening length of 32 m, including removal of existing worn-out seal, fixing of new seal with fasteners, alignment and testing, complete, as per directions of E/I	M	96		
m	S.F.F. and replacement, whenever required, of inclined (Degree) rubber seal for radial gates, of size 100 mm × 20 mm, for each gate having seal length of 11 m, including removal of old seal, fixing of new seal, alignment and testing, complete, as per specifications and directions of E/I	M	33		
n	Lifting and shifting of stop log gates, including handling, loading, unloading and positioning of 8 Nos. stop log gates of 12-ton capacity each, for locking of radial gates during maintenance works, complete, as per directions of E/I	Job.	1		
o	Repair and/or replacement of thrust bearing of appropriate size installed on rope drum shaft of radial gate, including dismantling, supply of bearing (wherever required), refitting, alignment, lubrication, testing and commissioning, complete, as per specifications and directions of E/I	Nos.	3		
p	Repair and maintenance work of gantry crane window including replacement of glass etc. complete Job with cost of all materials as per specification and direction of E/I.	Job	1		
q	Supply of Coupling nut & bolt of different sizes with cost of transportation as per specification and direction of E/I.	pc	100		
r	Provision for complete servicing and maintenance of 35-ton gantry crane and its pathway, including mechanical repairs, re-alignment, and replacement of required spares such as wheels, gears, chain pulley, driver seat arrangement, wooden stoppers, hydraulic and magnetic brake unit etc complete Job with cost of all materials as per specification and direction of E/I.	Job	1		
s	Provision for repair and maintenance of Hydraulic power pack unit, double acting hydraulic cylinder having bore dia. 150mm, rod dia. 80mm, stroke 3000mm mounting- Rear flange, Working Pressure - 100 Bar at LBC and RBC gate with servicing of hydraulic hoist system including dismantling, replacement of worn/damaged seal kit, reassembly, testing and refitting in operating position, complete with all labour, tools and materials as per directions of E/I.	Job	6		
t	S.F.F. of suitable size bearing used in radial gate hoist system as per sample required including removal of old one all complete during five years as per specification and direction of E/I.	Nos.	3		
15	<b>Right Bank &amp; Left Bank Canal Gate - Hydraulic System</b>				

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a	Supply, installation and fixing rigid hydraulic steel pipe of suitable dia., with proper supports, leak-proof compression fittings, corrosion-resistant treatment, testing and commissioning, complete with all materials, labour, tools and tackles, as per site requirement and directions of (E/I).	Meter	25		
B	Supply, fitting and fixing of hydraulic pipe nozzle of suitable size, including alignment, sealing and testing, complete with all materials, labour, tools and tackles, as per directions of (E/I).	Nos.	10		
c	Provision for straightening and alignment of simultaneous lifting pipe for vertical gate operation, heavy-duty M.S. pipe each, complete with integral M.S. flange (thickness 6mm), including cutting, welding, drilling, alignment, anti-corrosive treatment, fixing with nuts, bolts and washers, and all materials, labour, tools and tackles, complete Job, as per approved specifications and directions of (E/I).	Set	16		
d	Supply, installation, fitting and fixing of pilot operated check valve (modular type, Model: CIM 10 AB1-22), NG-10 size, of approved make (Polyhydron or equivalent) and conforming to relevant IS/ISO standards, suitable for hydraulic systems for load holding and controlled reverse flow applications, complete with all required hydraulic connections, testing and commissioning, including all materials, labour, tools and tackles, as per site requirements and directions of (E/I).	Nos.	2		
e	Supply, installation, fitting and fixing of hydraulic directional control valve, hand-lever operated, modular type, Model - 4DCL 10, NG-10 / CETOP-5 size, of approved make (Prism Hydraulics or equivalent) and conforming to relevant IS/ISO standards, suitable for controlling direction of hydraulic fluid flow in industrial hydraulic systems, complete with all necessary mounting accessories, hydraulic connections, testing and commissioning, including all materials, labour, tools and tackles, as per site requirements and directions of (E/I).	Nos.	2		
F	Supply, installation, fitting and fixing of hydraulic directional control valve, hand-lever operated, modular type, Model - 4DE06DS-11, Pressure - 300 bar for Port T of approved make (Spica Hydraulics or equivalent) and conforming to relevant IS/ISO standards, suitable for controlling direction of hydraulic fluid flow in industrial hydraulic systems, complete with all necessary mounting accessories, hydraulic connections, testing and commissioning, including all materials, labour, tools and tackles, as per site requirements and directions of E/I.	Nos.	2		

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g	Supply, installation, fitting and fixing of hydraulic Throttle Check valve, modular type, Model - TCV 6W, Port size - 3/4" BSP, and Check type - Poppet, of approved make (Tucsons Hydrocontrols or equivalent) and conforming to relevant IS/ISO standards, suitable for controlling of hydraulic fluid flow rate in industrial hydraulic systems, complete with all necessary mounting accessories, hydraulic connections, testing and commissioning, including all materials, labour, tools and tackles, as per site requirements and directions of E/I.	Nos.	2		
h	Supply, installation, fitting and fixing of hydraulic directional flow control and check valve, modular type, Model - DRV 20, Port size - 3/4" make (APPLE HYD (Apple Hydraulics or equivalent), Maximum Pressure - PN 500 BAR and conforming to relevant IS/ISO standards, suitable for controlling direction of hydraulic fluid flow in industrial hydraulic systems, complete with all necessary mounting accessories, hydraulic connections, testing and commissioning, including all materials, labour, tools and tackles, as per site requirements and directions of E/I.	Nos.	6		
i	S.I.T.C. hydraulic oil pressure gauge, dial type, with proper mounting, alignment, sealing, clear readable scale, proper threaded connection, leak-proof sealing, mounting, fittings, testing, with testing and calibration certificate, all complete Job labour, tools and tackles, complete as per directions of E/I.	Nos.	3		
j	Supply of hydraulic oil and drain-out of old oil, cleaning of oil tank and internal components, and refilling of 800 liter ISI-marked hydraulic oil (ISO VG 68), including cleaning, flushing, testing and commissioning, complete Job at LBC and RBC sub control room as per specifications and directions of E/I.	Job	3		
k	Supply, fitting and fixing of hydraulic control panel two-way switch, of approved make, including wiring/connection, mounting and testing, complete as per specifications and directions of E/I.	Job	1		
l	Servicing, refitting, testing and commissioning of hydraulic gear pump unit (with compressor) including alignment, lubrication and trial run, complete as per specifications and directions of E/I.	Job	3		
m	Servicing, Repair/Replacement of hydraulic hand-lever and oil seal change in required places, complete as per site requirements and directions of E/I.	Job	3		
n	Supply, fitting and fixing of suction strainer and return line filter element unit, of suitable size for hydraulic oil service, including proper sealing and testing, complete Job as per directions of E/I.	Job	3		
o	Supply, fitting and fixing of relief valve for hydraulic system, including pressure setting and testing, complete as per specifications and directions of E/I.	Nos.	2		
<b>Part C: Consumable Material</b>					
a	Repairing of doors and all windows including wheels, handles and locks; repair of washroom; and replacement of mat in control room, including all transportation and labour charges.	Job	1		

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b	Supply, fitting and fixing of First Aid Box with medicines, complete with bandages, antiseptic lotions, ointment, scissors, cotton etc. complete in all respects including all materials, labour, and transportation charges..	Job	1		
c	Providing and supplying waterproof raincoat made of PVC/nylon material with hood and front closure, suitable for rainy season use. Size and colour as approved. complete in all respects including all materials, labour, and transportation charges..	pc	5		
d	Supply of approved quality life jacket with buoyant foam, adjustable straps, and safety fittings, conforming to relevant safety standards. complete in all respects including all materials, labour, and transportation charges.	pc	10		
e	Supply of heavy-duty float tube made of puncture-resistant material with adequate buoyancy and safety valves. complete in all respects including all materials, labour, and transportation charges.	pc	5		
f	Supply of A4 size white paper, 75/80 GSM, suitable for printing and photocopying, packed in sealed reams of 500 sheets including all materials, labour, and transportation charges.	pc	10		
g	Supply of revolving movable chair with rollers and adjustable height, cushioned seat and backrest, complete in all respects including all materials, labour, and transportation charges.	pc	3		
h	Supply of L-shaped office table made of pre-laminated board with laminate finish and lockable drawer including all materials, labour, and transportation charges.	pc	1		
i	Supply of steel almirah made of CRCA steel with shelves and central locking system including all materials, labour, and transportation charges..	pc	1		
j	Supply of Office Chair with arm Rest with Steel Frame and Cushioned seat Back, Chair Without Wheels Holds including all materials, labour, and transportation charges.	pc	4		
k	S.F.F of tiles in SCADA Control Room floor, bathroom, and across stairs, including all materials, labour, and transportation charges.	Job	1		
l	Servicing of RO water purifier including replacement of filters, complete with all labour and incidental charges.	Job	1		
m	Supply of good quality umbrella suitable for outdoor use, complete in all respects including all materials, labour, and transportation charges.	Pc	5		
n	Supply of heavy-duty PVC/rubber gum boots suitable for wet and slippery conditions, of approved make, complete in all respects including all materials, labour, and transportation charges.	Pc	5		
o	Supply of high-beam rechargeable LED torch made of aircraft-grade aluminum alloy, zoom LED flashlight, minimum 650 lumens, 1200 mAh or above battery complete with charger. complete in all respects including all materials, labour, and transportation charges.	Nos.	1		

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p	Supply of housekeeping and sanitation materials including toilet cleaning solution, liquid hand-wash, air freshener, broom stick, floor cleaning liquid, toilet cleaning brush, towels, naphthalene balls and floor wiper, of approved make and quality, complete in all respects.	Job	1		
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*(Cherry) Gaur*  
 16-01-2026  
 Executive Engineer (Mech.)  
 Irrigation Mechanical Division, Mohania