

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

Letter No.-...694...../Mohania

Date:-...01-09-2026

Short Re-Quotation Invitation Notice No.- 09/2026-27

This Quotation is being invited for - Supply, Installation, Testing, Commissioning and Maintenance of Electrical, Mechanical works with all other allied components for helping estimate preparation of repair & maintenance at pump house/dam under Irrigation Mechanical Division Mohania.

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 or on official e-mail id- imd.mohania@gmail.com till date 12.09.2026.

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

The detailed technical particulars can be viewed on the departmental website:<https://wrd.bihar.gov.in>


Executive Engineer (Mech.)
Irrigation Mechanical Division, Mohania

The Technical Particulars are :-

S.No.	Description of Items	Unit	Rate
Part A :- Electrical Items			
1.1	ROTOR REPAIR WORK – HT SQUIRREL-CAGE ROTOR		
a	Dismantling, cleaning and complete inspection of HT squirrel-cage rotor including copper rotor bars, end rings, bar-to-end-ring joints, shaft, bearing seating and associated components; identification of defective/cracked/loose joints and damaged portions.	Job	
b	Complete repair of defective/cracked/loose rotor bar and end-ring joints by suitable silver-bearing brazing, including cleaning, preparation, heating, brazing, securing, dressing, grinding and finishing of repaired joints to restore required electrical, mechanical and clearance conditions.	Joint	
c	Supply of suitable silver-bearing brazing alloy/rod and necessary consumables for repair of copper rotor-bar and end-ring joints.	Kg	
d	Repair/build-up of worn or damaged rotor shaft bearing seating by suitable welding/brazing and precision machining to required dimensions, concentricity and alignment.	Each	
e	Dynamic balancing of completely repaired rotor on suitable dynamic balancing machine, including measurement, necessary correction and final balancing within permissible limits.	Job	
1.2	STATOR REPAIR / REWINDING / REINSULATION – HT MOTOR		
a	Dismantling and complete inspection of stator including core, slots, existing winding, insulation and connections; removal of damaged winding and old insulation without damaging stator core/laminations; cleaning and minor rectification of slots/core wherever required.	Job	
b	Supply and fitting of suitable 6.6 kV/11 kV grade slot insulation/separator insulation and other necessary slot insulating materials before coil insertion.	Kg	

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c	Supply of properly formed/moulded copper stator coils suitable for the specified HT motor and conforming to approved/existing winding data.	Coil	
d	Insertion, positioning and fitting of copper coils in stator slots, including necessary insulation, coil-end preparation and securing with suitable glass/insulating wedges.	Coil	
e	Making of inter-coil, phase and winding connections as per approved/existing winding arrangement, including preparation, silver brazing, securing and finishing of joints.	Joint	
f	Supply and application of required high-voltage insulating tape, 25 mm glass-mica tape and suitable heat-resistant/Kapton tape over winding, coil-end and connection portions as required.	Job	
g	Supply and application/impregnation of suitable HT-grade electrical insulating varnish with compatible hardener over completed stator winding.	Liter	
h	Controlled curing/drying of varnished stator winding in suitable heating arrangement, including heating up to approximately 100°C as required for proper curing and mechanical strength.	Job	
1.3	HT MOTOR ASSEMBLY, TESTING & COMMISSIONING		
a	Reassembly of repaired stator and rotor including bearings, end covers, terminal box and all dismantled components; replacement/fitting of bearings wherever required and rectification of end-cover bearing housing, wherever necessary.	Job	
b	Supply and fitting of coupling bolt and rubber bush complete set, including necessary coating, tightening and labour.	Set	
c	Alignment of completely assembled motor with driven equipment/pump, including necessary correction and final alignment.	Job	
d	Electrical testing of completed stator and assembled HT motor including insulation resistance test with 5 kV Megger, winding resistance/phase balance, Polarization Index (PI) and applicable HV/AC withstand test, with recording of test results.	Job	

e	No-load trial run of repaired HT motor including measurement/observation of voltage, current, vibration, bearing temperature, abnormal noise and other operating parameters.	Job	
f	Full-load trial run and commissioning of repaired/rewound HT motor at site including monitoring of voltage, current, vibration, bearing temperature and other available operating parameters and submission of satisfactory test results.	Job	
1.4	HT MOTOR TRANSPORTATION & ASSOCIATED WORKS		
a	Transportation of motor/rotor from site to workshop and transportation of repaired motor/rotor from workshop to site, including loading, unloading, handling and shifting by Hydra/tractor or suitable vehicle.	Job	
b	Making, repairing and fitting of outer/inner grease cups wherever required, including necessary fabrication, machining and fixing.	Each	
c	Drilling and threading of damaged holes and provision/fitting of suitable bolts, washers and nuts, including necessary machining and labour.	Job	
d	Denting, surface preparation, primer application and spray painting of motor exterior with suitable industrial-grade paint, complete.	Job	
2.1	Repair work of 15 KVA Diesel Engine		
a	Supply, replacement, calibration, testing and commissioning of fuel injection pump and injector nozzle assembly suitable for 15 KVA, 2-cylinder DG engine.	Set	
b	Supply and replacement of cylinder liner, piston, piston rings, gudgeon pin and circlips complete.	Set	
c	Supply and filling of SAE 15W-40 diesel engine mobil oil conforming to API CI-4 or higher specification.	Liter	
d	Supply and replacement of complete heat and oil-resistant engine gasket, seal and packing set for engine overhaul.	Set	
e	Supply and replacement of diesel fuel filter complete with seals and accessories.	Set	
f	Supply and replacement of spin-on type lubricating oil	Set	

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	filter suitable for DG engine.		
g	Supply and replacement of diesel-resistant flexible fuel pipe (Diesel pipe) complete with clamps and fittings.	Each	
h	Supply and replacement of seamless steel high-pressure fuel injection pipe complete with end fittings.	Each	
i	Supply and installation of anti-corrosive mild steel exhaust silencer complete with mounting accessories.	Each	
j	Supply and replacement of crankshaft main bearings and connecting rod bearings complete.	Set	
k	Grinding, polishing, alignment checking and correction of connecting rod assembly.	Job	
l	Supply and installation of heavy-duty 12 V self-starter motor complete with mounting arrangement and testing.	Set	
m	Supply and installation of automatic SMPS battery charger suitable for 12 V, 10 A.	Each	
n	Supply and installation of 12 V, 100 Ah battery complete with copper cables, lugs and terminal clamps.	Each	
o	Complete dismantling of DG set, transportation to workshop and back, reinstallation at site, engine-alternator alignment, testing, commissioning and all associated labour charges complete in all respects with coupling.	Job	
2.2	Repair work of 15 KVA, 3-Phase Alternator		
a	Supply and replacement of rubber tyre-type flexible coupling complete with hubs, bushes and fasteners.	Set	
b	Supply and replacement of SKF/FAG/NSK make 6207 ZZ Ball bearings at DE and NDE sides complete suitable for alternator	Each.	
c	Supply and replacement of three-phase rectifier diode plate assembly suitable for alternator excitation system.	Set	
d	Welding, machining and dimensional restoration of alternator cover/housing components.	Job	
e	Surface preparation, anti-corrosive painting and replacement of damaged nuts, bolts and washers.	Job	
f	Complete dismantling of alternator, inspection of stator and rotor windings, insulation resistance (IR) testing, oven drying, Class-F varnishing, reassembly, alignment,	Job	

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	performance testing, commissioning and all associated labour charges complete in all respects.		
g	Supply, fitting, fixing, testing and commissioning of self-priming monoblock water circulation pump for DG set engine cooling system, complete with necessary accessories, interconnecting pipework, mounting arrangement, transportation and all labour charges, complete in all respects.	Job	
3	Repair work of Air Break Switch (AB Switch)		
a	S/F of Operating/Action Rod with Handle and Necessary Accessories for AB Switch, including transportation and labour charges, complete.	Job	
b	S/F of Moving Copper Contact/Bar for AB Switch, including transportation and labour charges, complete.	Job	
c	S/F of Fixed Contact for AB Switch, including transportation and labour charges, complete.	Job	
d	S/F of GI Nuts, Bolts and Washers , including necessary drilling, fixing, transportation and labour charges, complete.	Job	
e	S/F of MS Angle Clamp – H-Type Iron , including fixing, transportation, labour charges and all accessories, complete	Job	
4.	Supply, Laying and Installation of Electrical Cables & Accessories		
a	Supply, Fixing and Transportation of 3 Core X 25 sq.mm Aluminium Armoured Cable, 1.1 kV Grade , complete with necessary accessories, transportation and labour charges.	m	
b	Supply, Fixing and Transportation of 2 Core × 1.5 Sq.mm Copper Flexible Round Cable, 1.1 kV Grade , complete with necessary accessories, transportation and labour charges	m	
c	Laying of 25 sq.mm x 3 Core Cable , including excavation of cable trench/drain, laying of cable, refilling and dressing of excavated earth, complete with all labour charges.	m	

d	S/F of 2-Pole, 32 A MCB , suitable for the specified circuit, including waterproof enclosure/clamp, transportation and labour charges, complete.	Each	
e	S/F of GI Cable Clamps suitable for securing/clamping cables for street-light installation, including necessary nuts, bolts and accessories, complete.	Each	
5.	Electrical Protection & Control Components		
a	Supply of HF Type Fuse , suitable for electrical protection, current rating 4A to 63A , complete with necessary accessories	Lot	
b	Supply of HN Type Fuse , suitable for electrical protection, current rating 10A to 250A , complete with necessary accessories	Lot	
c	Supply of Air Break Contactor: Air break contactor, 415 V/230 V AC , suitable current rating, 3-phase, 50 Hz, suitable for motor/control circuit applications, complete with auxiliary contacts.	Lot	
d	Supply of Thermal overload relay (OLR) , suitable for 415 V AC motor protection, with adjustable current range and manual/automatic reset facility, complete with accessories.	Each	
e	Supply, Installation, Testing & Commissioning of 3-Phase Adjustable Thermal Overload Relay , suitable for motor protection, with 0-30 A adjustable current range , overload and phase-failure protection, reset facility, auxiliary contacts and all necessary accessories, complete in all respects.	Each	
f	Supply, Installation, Testing & Commissioning of Starter/Contactor Coil , suitable for the existing motor starter/contacter, complete with required coil voltage, terminals and all necessary accessories, as required for proper operation.	Each	
g	Supply of 415 V, 200 A Kit-Kat type rewirable fuse with porcelain base, carrier and fuse link, complete with accessories, suitable for 3-phase AC supply.	Each	
h	Supply of Single Phase Preventer , 415 V AC , complete with relay, adjustable voltage/phase-failure protection and necessary accessories, suitable for 3-phase motor protection.	Each	

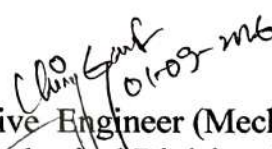
6.	Electrical Accessories		
a	S/F of Copper Contact Leaf for Jumper connection including transportation and labour charges, complete.	Job	
b	Supply of Zero-watt/indicator lamp of suitable voltage rating, LED/neon type, suitable for phase indication, in Red, Yellow and Blue colours (R-Y-B), suitable for mounting in electrical panel/DB, complete.	Set	
c	Supply of pendant type lamp holder , suitable for LED/incandescent lamps, made of durable insulated material, complete with required accessories.	Each	
d	Supply of 100 W, 230 V AC incandescent lamp .	Each	
e	Electric air blower, 150 W, 230 V AC, 50 Hz , high-speed motor, suitable for cleaning dust and debris from electrical/mechanical equipment, complete with nozzle and accessories.	Set	
f	Heavy-duty bench grinder, 230 V AC, 50 Hz , minimum 150 mm grinding wheel , suitable for general grinding, sharpening and deburring works, complete with wheel guards, tool rests and safety accessories.	Set	
g	SITC of 7.5 HP, 415 V, 3-Phase, 50 Hz, squirrel-cage induction motor, TEFC type , suitable for vacuum pump application, including transportation, installation and testing charges.	Each	
h	Supply of Electrical Insulating Rubber Mat, 25 mm thick, 1 m × 3 m , suitable for electrical safety, conforming to relevant IS standards, including transportation charges.	Each	
7.	Miscellaneous Electrical Maintenance Tools		
a	Supply of 8" heavy-duty combination plier , drop-forged alloy/high-carbon steel with insulated non-slip handles, suitable for electrical maintenance, complete.	Each	
b	Supply of Insulated screw driver set comprising flat and Phillips/Star types of suitable sizes, insulated handles suitable for electrical maintenance, VDE/IEC rated or equivalent, complete set.	Set	

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c	Supply of electrician's knife , folding type, stainless/high carbon steel blade with insulated/impact-resistant handle, suitable for stripping and cutting electrical cables and general electrical maintenance work, complete.	Each	
d	Supply of Allen/Hexagonal (L-Key) key set , comprising suitable metric sizes, manufactured from hardened alloy steel, chrome plated/anti-corrosion finish, suitable for tightening and loosening hexagonal socket screws, complete set.	Set	
e	Supply of Adjustable/slide wrench , 8 inch (200 mm), drop-forged high carbon/alloy steel, adjustable jaw with knurled screw mechanism, corrosion-resistant finish, suitable for electrical/mechanical maintenance work, complete.	Set	
f	Supply of Combination/ring spanner set covering 6 mm to 25 mm sizes, forged alloy steel construction, heat treated, corrosion-resistant finish, suitable for maintenance and tightening of nuts and bolts, complete set.	Set	
g	Supply of Engineer's hand hammer , 1 kg head weight, forged high carbon steel head, properly hardened and tempered striking faces, fitted with seasoned hardwood/fibreglass handle, suitable for maintenance work, complete.	Each	
h	Supply of 6" (150 mm) cold chisel of forged, hardened high-carbon steel, suitable for maintenance work, complete.	Set	
i	Supply of 8" insulated electrician's screwdriver with hardened alloy-steel blade and non-slip handle, suitable for electrical maintenance, complete.	Set	
j	Supply of Electrical line tester , insulated handle, suitable for testing AC voltage up to 500 V, with neon indicator and protective insulation, suitable for electrical maintenance work, complete.	Each	
k	Supply of Heavy-duty MS steel hexagonal frame , duly fabricated, welded and painted with anti-corrosive primer and finishing coat, Blade, complete with necessary fixing accessories.	Set	

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l	Supply of Heavy-duty hexagonal cutting blade made of hardened high-carbon steel, suitable for mounting on Hexa Frame, corrosion-resistant complete with required mounting/fixing accessories.	Each	
m	Supply of assorted hand file set comprising flat, round, half-round, square and triangular files of suitable sizes, with handles, complete in all respects.	Set	
n	Supply of pipe wrench of suitable size for opening and tightening of bolts, including transportation complete.	Each	
Part B :- Mechanical Maintenance Items			
8	Supply of Special Quality Gland Packing: Special-quality gland packing suitable for vacuum pump and dewatering pump , durable, wear-resistant and suitable for water service, complete as required.	Kg	
9	Supply of Rubber Gasket: 10 mm thick, nylon-finished rubber gasket sheet, suitable for sealing applications in pumps, pipelines and mechanical equipment.	Kg	
10	Supply of 16 mm Steel Wire Rope: 16 mm dia. high-strength steel wire rope, suitable for lifting/hoisting applications, corrosion-resistant and complete as required.	m	


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