

REGD.

From

RATE CONTRACT

The Director General, Supplies & Disposals, Haryana,
S.C.O. No. 09 (1st & 2nd Floors), Sector-16, Panchkula.
Tel. Nos. 0172-2570121-124.
Fax No. 0172-2570121, E-mail: supplies@hry.nic.in

To

M/s Surya Roshni Ltd
Prakash Nagar Sankhol,
Bahadurgarh Email:- ajhanwar@surya.in
MB. No. 9873925477

Memo No :- 45/HR/RC/E-5/2022-23/
Dated Panchkula the:-

Sub:- Two years Rate Contract of Centralized Control and Monitoring System (CCMS) with 05 year warranty for the municipalities in the State of Haryana required by Director Urban Local Bodies, Haryana (Sr. No. 17).

Dear Sir,

With reference to your Tender No. & dated and this office acceptance letter No. & Dated and your letter No. and Dated given in Schedule "A", on the subject noted above, I have to inform you that your offer has been accepted for the supply of stores to the terms & conditions given in the Schedule "A" and "B".

2. I enclose herewith an agreement form in duplicate and request that the agreement may be executed on a non-judicial stamp paper of Rs.15/- signed and returned to this office within 10 days from the date of issue of this letter. One copy of the agreement will be sent to you duly executed on behalf of Governor of Haryana for your record. You may kindly send power of attorney in favour of the person/persons who is/ are authorized to signed the agreement together with/their specimen signature duly attested by a Magistrate or Oath Commissioner or Resolution of the firm authorizing the persons to sign the documents on behalf of the firm.

3. The Contract shall come into force from the date of its issue and shall remain operative upto i.e 15.01.2026. Government reserves the right to bring any other party on the rate contract at any subsequent stage during the pendency of this rate contract.

4. The store must confirms to the approved specification as given in Schedule "A" attached, failing which the same shall be rejected at your risk and cost.

5. The inspection of the material will be carried out by the Indenting Officers or their authorized representatives at your premises before dispatch.

6. The supply must be completed within the stipulated delivery period failing which the risk purchase will be affected against you and the excess cost thus incurred will be recovered from you. Delayed supplies shall be accepted under penalty clause of the Schedule "B" unless the delivery period is extended by the competent authority.

7. The Director, Supplies & Disposals, Haryana reserves to himself the right to obtain contracted items of stores when available from any Govt. Deptt./ approved source without prejudice to this contract.

8. Failure to execute agreement/effect supplies within the stipulated period, repeatedly offering supplies liable to rejection or without prior inspection may render your earnest money/security liable to forfeiture, debarring your firm in addition to other remedies as available under the terms of the contracts.

9. All cases, where payments are not made within time, should be referred to this office for taking necessary action against the defaulters.

10. Your attention is particularly invited to the provision of Schedule "B" regarding the compliance with requisitions, preparation and submission of bills and quarterly submission of statement of supplies.

11. **PRICE FALL CLAUSE:-** The price charged for the stores shall not exceed in any way the lowest price at which you quote/ supply the stores of identical description of stores to GeM/State Govt./Central Govt./Institutions/undertaking/ any other person during the delivery period/ currency period of the rate contracts. If at any time during the delivery/ currency period, you reduce the rate, sale price of quoted stores to any person at the price lower than the price chargeable under this supply order/ contract, you are required to inform this office and price payable under the supply order/contract for the stores supplied after the date of coming into force of such reduction of rates shall stand correspondingly reduced to that level. You shall promptly notify the reduction of rates to this office as well as to concerned Indenting Officers/ consignees. You shall also give a certificate on your bills that the rates charged by you are not in any way higher to these quoted to the GeM and other state govt. central govt. Institutions etc. during the corresponding period. The Indenting Officer shall be required to ensure that requisite certificate is given by the concerned firm on the bills before releasing their payments.

12. All disputes will be settled only within the jurisdiction of Head Quarters of the Directorate of Supplies & Disposals, Haryana, Panchkula.

Please acknowledge the receipt of this letter.

Yours faithfully,

Deputy Director
Director General, Supplies & Disposals,
For & On behalf of Governor of Haryana

Endst. No- 45/HR/RC/E-5/2022-23/

Dated:-

A copy of Schedule 'A' showing the prices accepted along with conditions of supply & conditions of contract are forwarded to the Director, Urban Local Bodies Haryana Bay No. 11-14, Sector-4, Panchukula for information and necessary action.

1. He may indent for the requirement of the goods included in the Schedule "A" attached direct on the approved contractors under intimation to this office.

2. The security deposited by the firms would be released after two months of the termination of the contract and he is therefore, requested to send the complaints, if any, against the contractors to this office within this limit for settlement, failing which no complaint or claim will be entertained.

3. The Inspection shall be arranged by the Indenting Officer/Consignees or their authorized representatives at destination before releasing the payment of the supplies. The

stores should be accepted only after satisfactory inspection and issue of proper inspection note showing the acceptance of the material as per approved specifications.

4. Please report all cases in which contractor fails to effect supply within the delivery period stipulated in the Schedule "A" after the expiry of stipulated delivery period to this office for effecting purchase at the risk and cost of the contractors failing which all responsibility will rest with Indenting Officers/Consignees for not effecting risk purchase within prescribed period.

Deputy Director
Director General, Supplies & Disposals,
For Director General, Supplies & Disposals, Haryana
Dated :-

Endst. No- 45/HR/RC/E-5/2022-23/

A copy is forwarded to the Deputy Excise & Taxation Commissioner, Bahadurgarh for information & necessary action:-

They are requested to ensure that the GST is paid by the firm to government against this rate contract.

Deputy Director
Director General, Supplies & Disposals,
For Director General, Supplies & Disposals, Haryana

Endst. No- 45/HR/RC/E-5/2022-23/ 20218

Dated :- 16/1/24

A copy is forwarded to the following for information and action:-

1. The Accountant General (Audit), Haryana, Sector-33, Chandigarh.
2. The Controller of Stores, Punjab, Chandigarh.
3. The Controller of Stores, Himachal Pradesh Nigam Vihar, Shimla.
4. The Controller of Stores/Director of Industries and Commerce, J&K, Shrinagar.
5. St. Section O/o DGS&D, Haryana.
6. Programmer O/o DGS&D, Haryana.
7. Departmental Processing Charges branch o/o DGS&D, Haryana

Deputy Director
Director General, Supplies & Disposals,
For Director General, Supplies & Disposals, Haryana

SCHEDULE - "A"

Accepted rates of M/s Surya Roshni Ltd; Prakash Nagar Sankhol, Bahadurgarh Email:- ajhanwar@surya.in _MB. No. 9873925477, offer No. Nil dated 15.09.2023 and your letter dated 29.11.2023, this office acceptance letter No. 19660 dated 02.11.2024 & your letter No. LBG/HRY/231/23-24 dated 16.01.2024.

Sr. No.	Name of items	Qty. In Nos.	Rates in Rs. per no., inclusive of all taxes/duties, GST, FOR Destination
1	Single Phase CCMS panels with 5 year warranty	6000	1,32,000/-
2	Three Phase CCMS panels with 5 year warranty	2000	1,52,000/-

TECHNICAL SPECIFICATIONS FOR CCMS Panel

CENTRALIZED CONTROL & MONITORING SYSTEMS (CCMS)

Sl. No	Features	Description
1	Operational Features CCMS	· The CCMS unit should switch ON and OFF the Zone/ Cluster of lights of a particular switching point, or networked switching points from Central Control Station instantaneously. In case of failure of CCMS, switching of Zone/ Cluster of lights can be managed by an astronomical timer.
		· The CCMS unit should be a GPRS or GSM (with IMEI number) proven technology-based remote streetlight monitoring system with capacity for self-protection from short-circuit, over-voltage, and anti-theft alert.
		· The CCMS unit should have a battery backup of at least 8 hours.
		· The CCMS Unit should have requisite Digital Input/ Output to fetch data.
		· The rating of the CCMS fader panel units should be at least 1.5 times that of the lighting load. The CCMS units should have Surge, Over Voltage, and Over Load protection.
		· Enclosure Box to be sheet steel material with proper lock arrangement.
2	Operational features of smart gateway	The gateway should be capable of switching ON, OFF, (group controlled LEDs) Central Control Station instantaneously or automatically throughout the year based on Sunrise and sunset time depending on the switching point's geographical location.
		The gateway should be a GPRS and/or GSM (with IMEI number) proven technology-based remote streetlight monitoring system.
		The communication technology should be scalable and non-

Sl. No	Features	Description
		<p>proprietary. Any technology provided by the supplier should be exclusively used for machine data communication only.</p> <p>The gateway should have a battery backup of at least 8 hours.</p> <p>Enclosure Box to be sheet steel material with proper lock arrangement.</p>
3	An energy measurement and communication features	<p>The CCMS unit Should be able to capture (a record) and provide the following parameters at variable time-intervals (Individual switching point-wise and/or networked switching points) :</p> <ul style="list-style-type: none"> Ø Voltages Ø Current Ø Power Factor Ø Active Power (kW) Ø Apparent Power (kVA) Ø Metering kWh cumulative Ø Metering kVAh cumulative Ø Number of hours the power supply was unavailable/Faulty <p>Benchmarking capacity to generate alert SMS for:</p> <ul style="list-style-type: none"> Ø Phase-wise currents on crossing threshold values* Ø Phase-wise voltages on crossing threshold values* Ø MCB trips Ø Theft alerts Ø Group failure of lights Ø No output supply <p>· Class 1.0 accuracy Energy Meter with ISI marking/IS-13779 is to be used for power measurement. Type testing report from NABL Accredited Lab to be provided.</p> <p>* Please refer to the technical specifications for designing the threshold values for voltage and current.</p> <p>Central Control and Monitoring System functionalities</p> <ul style="list-style-type: none"> · CCMS shall have a web-server to receive and record all data with time stamping from the streetlight controllers.
4	Web-based Application	<ul style="list-style-type: none"> · It should communicate with any individual switching points or collectively among GST networked switching points for control and monitoring. · It should able to record LED luminaries glowing and non-glowing hours of a particular switching point. · It should display the power failure details of a particular switching point and the relevant luminaries. · It should register all fault conditions like excess voltage/current drawn, lamp failure, no-power supply, etc., through the instantaneous alert messages sent by the CCMS unit.

Sl. No	Features	Description
		<ul style="list-style-type: none"> · Reports such as an energy-saving report, lamp failure report, actual hours of operation, uptime (%), etc., should be generated daily from the data/readings received from the CCMS units.
		<ul style="list-style-type: none"> · It should be able to track the failure of lamps in a particular switching point.
		<ul style="list-style-type: none"> · Different user authorization levels should be settable. The central server should handle heavy traffic, i.e., the number of LED street lights installed in respective ULBs under this program.
		<ul style="list-style-type: none"> · GIS Mapping should be done covering all switching points, and the details of each switch point shall be viewable in the web application software through a Google-map interface or web-based digital map.
		<ul style="list-style-type: none"> · All the CCMS units should be remotely configured from the Central Control Unit.
		<ul style="list-style-type: none"> · Setting new ON/OFF timings
		<ul style="list-style-type: none"> · Setting the Response Time Count (RTC) time of the Automation unit
		<ul style="list-style-type: none"> · Knowing the current status of any particular switching point.
		<ul style="list-style-type: none"> · Reset the unit.
		<ul style="list-style-type: none"> · The minimum interval for the update of data should be 15 minutes but programmable for up to 1 minute.
		<ul style="list-style-type: none"> · Auto synchronization of the controller with server timing to be further synchronized with standard GPS clock timing.
		<ul style="list-style-type: none"> · The system monitors all the following from the CCMS unit
		<ul style="list-style-type: none"> · Voltages each phase
		<ul style="list-style-type: none"> · Current each phase
		<ul style="list-style-type: none"> · PF each phase
		<ul style="list-style-type: none"> · Metering kWh cumulative
		<ul style="list-style-type: none"> · Metering kVAh
		<ul style="list-style-type: none"> · Further system can indicate various faults
		<ul style="list-style-type: none"> · Number of operational lights
		<ul style="list-style-type: none"> · Number of non-operational lights
		<ul style="list-style-type: none"> · Failure of a contractor
		<ul style="list-style-type: none"> · Status of the incoming supply (power failure)
		<ul style="list-style-type: none"> · High /low voltage
		<ul style="list-style-type: none"> · Overload on the phases
		<ul style="list-style-type: none"> · The central CCMS unit is capable of handling a minimum of 400 number switching point units.
		<ul style="list-style-type: none"> · CCMS shall have a server, preferably dedicated server set-up or cloud-based arrangement, to ensure 100% guarantee of the data

Sl. No	Features	Description
		transmission and real-time data storage for the last 2 years (24 Months) archived data for the contract period.
		· Data authenticity and validation has to be ensured. Reports to be submitted in a common CVS format.
		· Cyber security, safe database management, data retrieval, and trouble-free operation of software and allied systems (24*7) to be ensured.
		· CCMS system should have a self-healing mechanism, and in case of failure, Bidder to ensure the resumption of service within 24 hours. Till resumption of full services, the default settings of the CCMS should ensure timely ON/ OFF operation of the street lights.
		· System to report Jamming/ hacking attempts, and maintain status-quo in case of Jamming/ hacking attempts, i.e., if lights are ON, they should remain ON until the default OFF time is recorded the system. In case lights are OFF at the time of Jamming attempt/ hacking, lights should remain OFF till the default ON time is recorded in the system.
		The Supplier of CCMS has to provide the Data as per the available software of the control room set up . Which include all data as mentioned in technical specification of CCMS Panel . Also CCMS supplier has to provide open APIs to the control room set -up Agency so that all data is available at a single platform.

Feeder Panel based controller (CCMS) :

The following functionalities shall be supported by Feeder Panel Controller (FPC) shall be as per IS:8639/IEC:60439 but testing and manufacturing as per IS:61439.

1. The Feeder Panel Controller should have a class-1 energy meter of reputed make like L&T/Secure/Genus/Schneider/etc and communicate to GSM-based smart controller using Rs485/232 Modbus communication port.
2. The Feeder Panel Controller shall be capable of switching ON/OFF all the luminaires of a switching point based on the lighting schedule set by the SLMS (Street Light Monitoring System)/software application.
3. It shall communicate to the SLMS through the wireless communication unit over GSM/Wi-Fi/Ethernet.
4. Once the lighting schedule is set, it shall operate the luminaires according to that schedule till the SLMS changes the lighting schedule.
5. It shall operate the luminaires according to the lighting schedule even if there is a communication fault between SLMS and feeder panels.
6. In the absence of any lighting schedule, it shall operate (ON/OFF) the luminaires according to the time of the day/calendar schedule/timer based locally based on Sunrise and Sun timing, i.e., Astro timer logic.
7. It shall communicate the real-time status (ON/OFF/Fault, fault type, voltage, current, wattage, and Power Factor per phase) of the FPC to SLMS.

8. Uniform Rating for all the panels should be calculated based on load requirement with an additional load capacity of 50%, keeping in mind the future needs of an increase in load.
9. The Contractor needs to use the appropriate communication mechanism from GSM or open protocol connectivity for establishing connectivity between Feeder Panel Controller and command control centre.
10. All the components installed in FPC shall be as per relevant IS or IEC standards (if relevant IS standard is not available), including interfacing relays and other small components excepts for wires and fabrication. all the material should be of leading manufacture with service centers/ offices in India.
11. The FPC shall meet the following technical criteria:
 - a. Operating voltage range 140-270 V (AC, 3phase)
 - b. Feeder Panel housing: Metal housing with Lock (single key for opening all panels locks)
 - c. In all panels, Incomer Breaker, MCB, Outgoing breaker MCBs, and by-pass switch/isolator will be provided.
 - d. FPC must have MCB up to 63 Amps at incoming and 35/40 Amps at outgoing.
 - e. 40 kA, 440V surge device to be provided incomer side in the panel.
 - f. System box with IP 55 protection and with Corrosion-resistant metal enclosure with proper lock arrangement.
 - g. SMS, and application on screen-based alerts for below critical alarms/alerts
 - i. Full/partial load failure (Group failure of lights)
 - ii. Faults /trips
 - iii. Overload on phase
 - iv. No output supplies
 - v. Power Failure (power trip)
 - vi. By-pass mode
 - vii. Door open
 - h. Programmable options through remote access:
 - i. Continuous ON /OFF.
 - ii. Local timer
 - iii. Switching ON/OFF based on scheduled On Time and Off Time.

Enable / disable alerts for Input Power failure / resumption, output MCB trip / reset, over / under voltage trip /reset.

GENERAL REQUIREMENTS OF LT ELECTRICAL CONTROL CCMS PANEL FOR LEDLUMINAIRES

- Control Panel Board size shall be sufficient so as to accommodate all the equipment in one enclosure. Sufficient space for housing Energy meter (tariff meter can be installed) with communication port shall be provided as per HBVN requirement/specifications.
- Fabricated by cutting, bending, welding etc in neat, symmetrical, aesthetic manner, providing easy access for Repair & Maintenance in clean manner of not less than 14swg (2mm) CRCA sheet duly painted by 2 coat of zinc/red oxide primer followed by 2 coats of powder coating e. All the equipment should be mounted on mounting plate of minimum 12 swg (3.0mm) or more

thickness with 15 mm bend on sides or 3mm Bakelite sheet.

- The Panel should be dust and vermin proof wherever required & proper sponge neoprene/PU gasketing should be done.
- The Panel should be as per low voltage i.e. 415 V AC 50 Hz, 3 Phase 4 wire system switchgear and control gear assembly conforming to IS 8623:1993 and IEC 60439 with up to date amendments.
- The control panel board should comprise of rigid welded structural frames The control panel shall be complete with removable gland plates with provision of entry and exit of cable from glands duly fixed on the side plates of panel board.
- The mounting of panel shall be made on wall 1.00m from ground level to the bottom of panel.
- The board should be matt finished, covers should be rigid in construction wherever required door stiffeners should be used & free from flaws. It shall also be provided with discrete key lock system for every installation/panel.
- The panel board should have the flush mounted instruments of 96x96mm bezel or 22.5mm cut out for pilot devices.
- The LED type indicating lamps should be used as per IS: 13947-5 - 2004 for phases available RYB.
- The size for a rating of Aluminum bus-bar should be according to the formula 1mm^2 per 0.8A.
- The SCPD (Short Circuit Protection Device i.e. MCB/MCCB) should be on the incomer side of the Control Panel so that in case of fault/ fire/ exigency the SCPD can trip.
- All devices like contractors, bus bars, overload relays, soft starter if used, other protection relays and timers etc. should not be accessible with door closed.
- All the controls, indications, metering devices/displays of the panel should be inside of the panel. All the Contactors should be air break type and AC3 duty as per IS13947-IV and of finger proof IP20 protection.
- The wiring shall be done by 1100V PVC wires as per IS 694:1990 FR type. The class of wire will be class 5 or class 6. The ture range will be -15 OC to 70 OC.
- The wire rating will considered as 70% of the rated wire rating as designated by manufacturer.
- Panel shall be supplied Phase voltage of 220V AC, contractor shall use the panel which shall have the capacity of having cut off of high & low voltage range from 120 Volt to 300 Volt (per phase) of technology available. Range of low-high cutoff/operation range is specified as 120 Volt to 300 Volt (per phase).
- Over voltage protection and under voltage relay for severe fluctuation should

be incorporated but the range should be selected to provide proper operating time.

- All the wires should be terminated, crimped with the due size of thimble. No wire should be terminated directly.
- All the wiring should have proper ferrules.
- Two earth studs one each on LHS and RHS should be provided.
- The door hinges should be strong enough to take the load of wiring, instrument at ionetc.
- ELCB for current leakage protection may be incorporated where earthing is not working due to any reason with specific permission from Engineer.
- All the 220V AC machinery, equipment and instruments will be supplied through 415/220VAC Isolation transformer (where neutral is troublesome or is prone to breakage with permission) or transformer type stabilizer only.

GENERAL REQUIREMENTS FOR CONTROL PANEL COMPONENTS

Moulded Case Circuit Breaker (MCCB)

- The MCCB (Moulded Case Circuit Breaker) shall conform to the latest IEC 947-2 & IEC 947-3 1989. The Service Short Circuit Breaking Capacity (ICS at 415V AC) should be as specified at the required level.
- The Trip command shall over ride all other commands. The MCCB shall employ maintenance free double break contact system to minimize the let thru' energies and capable of achievements Discrimination upto the full short circuit capacity of the downstream MCCB.
- In case of 4 Pole MCCB, the neutral shall be fully rated and capable of suffering protection. The MCCB shall have protection against Overload, Short Circuit & Earth Fault, minimum breaking capacity of MCCB will be 25 KA.

MINIATURE CIRCUIT BREAKER(MCB)

The incomer MCB shall always be SPN or TPN for neutral switching. The MCB shall be of c curve for inductive load. The MCB shall be as per IEC 60898. It should have trip free mechanism and show positive trip indication. There should be provision of auxiliary switch on MCB.

CONTACTORS

The contactors should comply with the latest IEC947-4 and the corresponding IS13947-4 standards. They shall have CPRI test Certificates. It should be manufactured by a company having got ISO 9001 approval. The contactor should be rated for AC3 duty at 415V and 50Hz. The Contactors shall be fast

closing and fast opening type. The making and breaking capacity values of the contactors should be as follows (as per IEC947-4):-

FOR AC3 DUTY

Making Capacity more than 10 Ie Breaking Capacity more than 8 Ie

Double pole contactor shall be used for each phase. The Contactors would be capable of frequent switching and should operate without de-rating at 55°C for AC3 applications. They should be climate proof as standard. The coil of the Contactor would have class H insulation to support frequent switching.

The rated voltage of the contactor shall be equal or superior at 440V and rated insulation voltage will be 690-1000V. The rated impulse voltage of the contactor should be 8KV.

The contactor shall have NO/ NC Auxiliary Contact Block. The Contactor should be modular in design and would be suitable for the addition of auxiliary contacts and other electrical auxiliaries without any compromise on the performance or the operations of the contactors.

The thermal over load relay if used shall be direct/separate mounting over the contactor without any specific connections.

OVER LOADRELAY

The overload relay should comply with the latest IEC 947-4 and the corresponding IS13947- 4 standard. They will be having CPRI certification. They will be manufactured in an organization in accordance with the requirements of ISO 9001 standard.

The Relay would be direct contactor mounting type and should have the provision to be mounted separately also. The Over load Relay would be ambient compensated type and would be operable up to 55 C. It should be designed for utilization category AC3. The Relay should be tripping as per the specified tripping curves given in the technical data. The overload Relay would have built in phase loss and phase unbalance protection as per IEC 947-4. The Over load Relay would be capable to withstand up rated currents and inrush currents. The overload relay would have the possibility to select manual / auto reset at site.

The Relays shall have to assure protection of the connected equipment in case of overload and partial single phase as per the characteristics.

Correct operation of over load relay contacts shall be checked by pressing the test button on the relay. A trip indicator shall indicate the relay status. Reset following tripping would be automatic or manual.

The Over Load Relay shall have potential free contact for indication / alarm purpose. In combination with a contactor and a short circuit protective device the resulting motor starter shall be Type 1 or Type 2 coordinated

conforming to IEC 947-4-1. Co-ordination shall be in accordance with tables tested and certified by the manufacturer of the respective switchgear.

INDICATING LAMPS

One set of indicators for each wire of red, yellow, blue phase indicating lamps with piano type switches and fuse for the incoming supplies for giving indication of respective incoming line feeder.

BUS-BAR

The bus bar shall be of electrolytic grade Copper or Aluminum as per IS specifications. The current carrying capacity should not be less than 1.2 A/mm². Neutral bus bar should be rated for 50% capacity.

The bus bar shall be duly insulated with heat shrinkable color coded sleeves in case of links and droppers. The Vendor should have an in-house conductivity test facility & primary current shall be conducted for temp rise test.

The bus bar should be duly supported on fiber glass based finger type / pyramid type supports with minimum glass contents 25mm.

Shop Tests required for Control Panel

The design of the Control Panels shall be type tested as per IS. 8623, IEC 60439 and shall comprise the following:

Routine tests shall be conducted on each panel as per IS: 8623 and shall comprise the following:

- Inspection of panel including inspection of wiring and electrical operational tests where necessary.

- Insulation resistance test.

- High voltage test of bus bars, power and control wiring.
- Any other tests and checks

LIST OF APPROVED MAKES BY PWD, B&R HARYANA

Electrical & Automation Items

Sr.No.	Name of Items	Name of the Brand
1	A) Electrical accessories, Button Holder, Pendent Holder, Ceiling Rose, Bell Push, Switches, and Sockets, Call Bell/ buzzer, etc.(ISI Marked) B) Modular Accessories	A) Anchor (Penta), SSK (Top Line), Precision, Hosper, Adhunik B) Anchor (Wood), ABB (Classiq), Legrand (Mosaic), North West, Precision
2	MS Conduit Pipes (I.S.I. Marked)	BEC, NIC, Steel Krafts, M Kay
3	PVC Wires Copper Conductor (I.S.I. Marked)	Bonton, Grandlay, Havell's, Polycab, Delton, R.R. Cable, HPL, DIATRON, Greatwhite, KEI, Plaza, Ecko, Fortis, Indane, anchor, adhunik, praflex, rallison
4	LT-PVC/ XLPE Underground cables with Aluminium Conductor (I.S.I. Marked)	All sizes:- Grandlay, Havell's Polycab, Delton, KEI, RR Kabel, Elkay, suraj, CIRITINA, Plaza, RPG, gloster, Indane, Fortis, Gemscab, Pymen
5	ii) Arial Bunch cables/ ACSR	(As approved by UHBVNL/ DHBVNL for works related to UHBVNL/ DHBVNL)
6	PVC Conduit pipe with accessories, and 6 kg. Pressure PVC	AKG, BEC, Diplast, Kalinga, Polypack
7	GI Pipe & M.S. Pipe (medium) (I.S.I. Marked)	Jindal, Parklash, Ravindra, Tata
8	I.C. switches/ SFU/ FSU/ Changeover switch	GE, L&T, Siemens, Havell's, SSK, C&, Standard, HPL, Indo Asian, AECO, M&PA
9	MCBs and Enclosure, CLCB/ RCCB	GE, L&T, Legrand, Siemens, ABB, Scheinder Electric, BCH, Havell's, Standard, C&S, HPL, indo Asian, Asco, AECO, M&PA
10	Poles i. MS Pole ii. GI Pole iii. High Mast iv. Decorative Poles	Manufactured by any firm as per ISI Marked sectional lengths strictly according to IS Specifications Philips, Bajaj, GE India, Surya Roshini, Paruthi Engineers (PE), Volmont, Crompton Philips, Bajaj, GE India, Surya Roshini, Paruthi Engineers (PE), Volmont, Crompton, Skipper, Vipin ST Poles Mayfair, Twinkle (Light), Twinkle (Luxmax), Jaquar, Keselecm Glomac, VAK lighting, Homdec
11	Indoor LED Light fittings and Outdoor LED Street Light	Bajaj, Crompton, Wipro, GE, Philips, Harvell's, Surya Roshni, ploycab, HPL, Hallonix, C&S Electric, Twinkle, FIEM, SYska, jaguar, Everydy, mayfair, INIXY, Legero,

Sr.No.	Name of Items	Name of the Brand
		ORPIC,Lightingimpex, Pyrotech,starflux and models approved by HAREDA
12	Flood light Fittings, Sodium/ M.H./ LED	Bajaj, Crompton, GE, Philips, Harvell's, Surya Roshni, polycav, HPL, Hallonix, C&S Electric, Mayfair, Ecolite, INIXY, Legero, ORPIC, Starflux
13	LT Panel/ Load bank/ APFC/ Bus Bar trunking. (OEM or their TTA)	Schneider, ABB, Siemens, BCH, L&T, C&S (Applicable for Electrical works more than Rs. 100 Lacs and all substations work on 1000KVA, and above)
14	ACBs	GE, L&T, Siemens, Schneider Electric, ABB, C&S, Harvell's, HPL, Indo Asian
15	OCBs, and VCBs	Alstom, Crompton, Siemens
16	Transformers	Alstom, Bharat Bijlee, Kirloskar, Crompton
17	Generators	Engines: Cummins, Greaves Cotton, Kirloskar, Ruston, Eicher (up to 125 KVA), Alternators: Crompton, Jyoti, Kirloskar, NGEF, Stamford (Mahindra up to 400 KVA)
18	CSSU	Schneider Electric, ABB, Siemens, C&S

****Note:** The successful bidders shall use above mentioned 18 Electrical & Automation Items of the makes approved by PWD/B&R which meets the credential criteria defined in the tender documents.

(Details specifications as per DNIT & sample submitted by you and approved by the Technical Committee)

TERMS & CONDITIONS

- 1- **F.O.R.:-** The above rates are F.O.R. destination anywhere in Haryana at supplier's risk.
- 2- **G.S.T. :-** Inclusive in above rates.
3. **Warranty:-**

The supplied material shall be warranted for 5 years from the date of receipt by the clients. The supplier shall ensure to provide the following minimum services to the client/consignee during the warranty period:

- (i) Supplier will appoint authorized dealers at divisional level in which items are to be supplied or open repair centers and their names shall be communicated to the Indenting/consignee Department within one month time from the date of issue of purchase order. Supplier shall also communicate name of these dealers/ centers to Directorate of Urban Local Bodies Haryana.
- (ii) If the order is of more than 100 nos (quantity of the single item), then supplier shall maintain 5% of the order quantities as buffer stock with the indenting department/ office till the warrantee period so that replacement of defective piece can be attended immediately.
- (iii) In case a supplier is not maintaining buffer stock as mentioned under para (ii) then he is bound to repair/ replace the defective item within 7