

Schedule of Rates for composite tender

Name of work: Electrical work due to provision of electronic interlocking in place of panel interlocking along with MSDAC at 02 stations (Ghosunda, Fatehnagar) of Ajmer Division.

Maintenance Period: 01 Year

SN	Item code	Description	Qty	Unit	Rate	Total
NS-1		Cable laying				
1	a	Supply & laying of HDPE pipe of 75/80mm dia. The work involves laying of HDPE pipe & laying cable in HDPE pipe. As per specification	1000	RM	112	112000
2	b	Digging and filling of trench size 0.4 x 0.8 meter (trench work may be on kuchha/pucca land and all type of soil as per site requirement and without protective layer of brick) surface on trench shall be made good in all respect and satisfaction of site engineer. As per specification	1000	RM	45	45000
3	c	Laying cable in Air/Wall/Pole without fixture. As per specification	500	RM	6	3000
4	d	Laying cable in air with fixture (02 nos. per mtrs). As per specification	500	RM	24	12000
5	e	Drilling of horizontal bore below track/road by pushing method for laying of RCC/HDPE/DWC pipe of size up to 100mm. As per specification	100	RM	1091	109100
6	f	Supply & providing of cable marker the Cable marker shall be made of MS Sheet 1.5mm thick size 150X100mm welded with 12mm dia MS rod 85 cm. Long. The lower end of rod should be turned in hooks shape and attached with the cable at the time of laying. As per specification	20	Nos.	150	3000
7	g	Supply & laying of G.I. pipe medium "B" class having dia. 40mm. As per specification	5	RM	280	1400
NS-2		DB, MCB & Junction Box				
1	a	Supply, install, test & commission of outdoor feeder pillar junction box with IP-54 protection, double door, fabricated from 16 SWG CRCA sheet, duly powder coated with Aluminium bus bar of 30 X 10 mm and outgoing feeders 63A-4P-C Curve MCBs (02 nos.) and 32A-2P-'C'	2	Nos.	18619	37238

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		curve MCBs (04 nos.) with suitable rating connectors for cable termination. As per specification				
2	b	Supply, install, test & commissioning of 12 Way SPN DB double door. As per specification	1	No.	1498	1498
3	c	Supply, install, test & commissioning of 10 Way SPN DB Double door. As per specification	1	No.	1809	1809
4	d	Supply, install, test & commissioning of 40Amps, 2 pole, RCCB, 100mA, 50Hz in SPN DB. As per specification	1	No.	3121	3121
5	e	Supply, install, test and commission of 63Amps 2P-RCCB 30mA, 50Hz in SPN DB. As per specification	1	No.	4389	4389
6	f	Supply, install, test & commissioning of 40Amps, 2 pole, 'C' series MCB. As per specification	1	No.	1126	1126
7	g	Supply, install, test & commissioning of 63Amps, 2 pole, 'C' series MCB. As per specification	1	No.	1205	1205
8	h	Supply, install, test and commission of 6-32A SP-MCB "B" series as out going in DB. As per specification	13	Nos.	157	2041
9	i	Supply, fixing, testing, commissioning and connecting of power over voltage protection (POP) device. As per specification	2	Nos.	1777	3554
NS-3		Outdoor Lighting				
1	a	Supply & erection of 5 meter high double arm, hot dip galvanized steel octagonal pole with galvanized base plate, galvanized box with 6Amp MCB & stud terminals, foundation bolt with excavation and making foundation. As per specification	20	Nos.	9608	192160
2	b	Supply, fabricate & fixing of complete Street light control box with MCB, Toggle switch, contactor & timer. As per specification	3	Nos.	8459	25377
NS-4		Wiring accessories				
1	a	Supply of material & wiring of Point by 1.5sqmm & earth wire by 1.5sqmm PVC insulated, single core, multi-strand FR grade wire (Short point wiring). As per specification	54	Nos.	147	7938

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2	b	Supply of material & wiring of sub main by 2.5sqmm & earth wire by 1.5sqmm PVC insulated, single core, multi-strand FR grade wire without PVC pipe. As per specification	500	RM	53	26500
3	c	Supply of material & wiring of sub main by 4.0sqmm & earth wire by 2.5sqmm PVC insulated, single core, multi-strand FR grade wire without PVC pipe. As per specification	200	RM	79	15800
4	d	Supply of material & fixing of flush metal box of 12-module with connection used for concealed modular flush metal box wiring. As per specification	6	Nos.	312	1872
5	e	Supply of material & fixing of plate inner & outer 12-Module used for concealed modular wiring. As per specification	6	Nos.	319	1914
6	f	Supply of material & fixing of flush metal box of 8-module with connection used for concealed modular flush metal box wiring. As per specification	6	Nos.	173	1038
7	g	Supply of material & fixing of plate inner & outer 8-Module used for concealed modular wiring. As per specification	6	Nos.	296	1776
8	h	Supply of material & fixing of flush metal box of 4-module with connection used for concealed modular flush metal box wiring. As per specification	6	Nos.	117	702
9	i	Supply of material & fixing of plate inner & outer 4-Module used for concealed modular wiring. As per specification	6	Nos.	219	1314
10	j	Supply of material & fixing of fan regulator 5-step (2-module) used for concealed modular wiring. As per specification	8	Nos.	571	4568
11	k	Supply of material & fixing of S.P. Switch 10Amps one way (1-module) used for concealed modular wiring. As per specification	84	Nos.	109	9156
12	l	Supply of material & fixing of 6Amps 5-pin Socket (2-module) used for concealed modular wiring. As per specification	40	Nos.	164	6560
13	m	Supply & fixing of blank plates (1-module) used for concealed modular wiring. As per specification	10	Nos.	27	270
14	n	Supply of material & fixing of 6/16Amp,	6	Nos.	246	1476

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		6-pin combined shuttered Socket (2-module) used for concealed modular wiring. As per specification				
15	o	Supply of material & fixing of S.P.Switch 16Amps one way (1-module) used for concealed modular wiring. As per specification	6	Nos.	179	1074
16	p	Supply & fixing of MS fan box. As per specification	8	Nos.	88	704
17	q	Supply, install, test & commissioning of modular MCB 25Amps ('C' series) single pole (1-module) used for concealed modular wiring. As per specification	4	Nos.	910	3640
18	r	Assemble, fixing, hanging & connection of fans, Ex-fans, fittings, geyser & etc. As per specification	44	Nos.	60	2640
NS-5		Earth station				
1	a	Provision of Strip Earthing. As per specification	6	Nos.	2754	16524
NS-6		CLS Panel				
1	a	Supply and testing of 10KVA change over panel suitable for 10KVA AT supply. (CLS panel) As per specification	4	Nos.	28671	114684
2	b	Installation and commissioning of 10KVA change over panel suitable for 10KVA AT supply (CLS Panel). As per specification	4	Nos.	2764	11056
		Total				790224

Schedule of Specification**NS-1: (a to g): Cable laying:**

(a): The contractor shall have to supply & fixing / laying of HDPE pipe in trench/under floor/road/railway track etc. or as per site requirement. It involves laying of cable in HDPE pipe. HDPE pipe should be ISI marked & confirming to IS: 4984:2016 or latest. Dimensions of HDPE pipes: Outer dia – 75 mm, wall thickness- 3.6 to 4.1mm, PN-4, PE-63 grade. It shall be possible to withdraw the cables for repair or replacement without disturbing the Railway work. The pipes shall be laid with a gradient to facilitate drainage of water and it shall be at right angle to the track.

(b): The minimum width of trench for laying single cable shall be 0.4 m x 0.8 m in case of LT cable. The depth of trench is increase to 1.2 M in case of cable above 1.1kV. Adequate precaution should be taken not to damage any existing cable, pipe or other such installation in the proposed route during excavation. The bottom on trench shall be level and free from stones, bricks bats etc. The trench shall be provided with a layer of clean dry sand cushion of not less than 10cm in depth. The trench shall be refilled with same soil free from stone and other sharp edged debris and shall be restored to original position & shall be possible to withdraw the cable for repair or replacement.

Where more than one cable is to be laid in same trench:- In case of more than one cable in a trench additional brick layer is to be laid between cables to maintain interaxia distance. Horizontal formation of the cables laying more than one cable should be increased such that interaxia distance between the cable must be 20 cm at least and brick is to be laid.

(c): The contractor shall have to laying cable in already laid Trench / PVC pipe / Hume pipe / GI pipe / wall / ceiling without fixture.

(d): Cables shall not be bent sharp to a small radius while handling or during installation. The minimum safe bending radius for PVC/XLPE (MV) cables shall be 12 times the overall diameter of the cable. Before and after laying the cable the I.R. value should be checked, all the instruments for testing shall be arranged by the contractor. Armouring of cable should be earthed at both the ends.

The contractor shall have to laying cable open in Wall/pole/ceiling as per decided by the site Engineer. Cable should be properly terminated with standard size of lug. The cable along the wall should be provided with suitable size of M.S. clamps, Reg Bolts / J bolts shall be provided to supporting the cable. The distance between two supports not more than 0.50 meters. Breaking of wall to make holes for the contractor shall do cable entry in the building shall be restored to original levels to the satisfactions of the railway. Cable entry in the wall shall be adequately sealed.

(e): This item covers drilling of Horizontal bore by pushing method (trenchless technology) in all types of soil/rock for laying of RCC/HDPE/DWC pipe upto 100mm by pushing method in presence of Railway representative taking all necessary safety precautions related track and movement of trains. Horizontal boring will be done at minimum 1.5 mtrs. Below from ground level at railway track portion but in case, where bank height of track is high then boring should be such that outer side and under track RCC/HDPE/DWC pipes are in same alignment.

All work will be done in presence of Railway representative without disturbing the Railway track taking all necessary safety precautions related track and movements of trains.

(f): The contractor shall have to supply & fixing of cable marker. The cable marker shall be made of MS sheet 1.5mm thick size 150X100mm welded with 12mm dia MS rod 85 cm

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long. The lower end of rod should be turned in hooks shape and attached with the cable at the time of laying.

(g): The contractor shall have to supply, laying & commission of "B" class 40mm dia GI pipe confirming to IS:1239 (part-I)/1990 or latest for cable protection above the ground as per decided by the site supervisor. GI pipe shall be install from ground to junction box & junction box to street light fitting with suitable mounting fixture to holding the pipe. M.S. flat clamps of approximate size 40 x 6mm shall be provided to secure the pipe.

NS-2: (a to i): DB, MCB & Junction box:

(a): The contractor shall have to design, supply, install, test and commission of junction box fabricated out of **1.6mm thick CRCA** sheet steel. **Canopy** at top will be provided. The junction box will be fix securely on the wall by drilling holes in the wall, reg bolt, nut & bolts or as per decided by the site engineer as per site requirement. The junction box shall be of totally enclosed cubical type, **double door**, wall mounted, with **IP-54** protection. The junction box should have hinged doors and locking arrangement at the front. The junction box should be suitable for three phase 4-wire 415V 50 cycles A.C. The junction box should be treated with rust protection such as degreasing, phosphating & painted with 2 coats of red oxide primer & standard color with 60microns, finish textured powder coating. Knock out gland plates, lugs for cables etc. as applicable shall be provided in the junction box for incoming and outgoing cables. Circuit identifications by means of printed label shall be provided with paint.

Bus Bar: Three phase & neutral electrolytic **Aluminium bus bar 300A** rated, size **30mmx10mm** with colour PVC tape or sleeves and bus bar insulators as per requirement. Adequate space inside the box shall be provided for bus bar & cable alley to accommodate the incoming and outgoing cables in a proper manner.

All power connection shall be secured adequately with spring washer, flat washer/ bimetallic washer, whenever applicable, G.I. bolts, tinned brass washer.

The sheet steel enclosure/ angle/ channel etc. used in the fabrication of the box shall be special surface treatment to make them highly resistant to corrosion.

The box shall be supplied complete with cable gland of brass, completely wired ready for commissioning.

Caution board in English & Hindi shall be provided and shall be metallic type approved by Railway.

Minimum one earth terminal shall be provided.

Size of the Junction box shall be such as to be accommodate the following:-

MCCB – 01 No. - 125Amps, 4-Pole, Breaking capacity at 415V, AC, 50Hz, 36kA, $I_{cs}=100\%=I_{cu}$, thermal release, adjustable over load setting: 0.8 - 1.0 x I_n , fixed short circuit setting: 9 x I_n , conforms to IS/IEC 60947-2 & IEC 60947-2, similar to cat no. DPX³160 type of cat no. 4200 96 of Legrand make.

Three phase & neutral electrolytic Aluminium bus bar 300A rated, size 30mmx10mm with colour PVC tape or sleeves and bus bar insulators as per requirement.

Cable gland of brass for different size of cable as per requirement for incoming/outgoing cable supply. Complete internal wiring with multi strand aluminum cable.

(b to i):

The contractor shall have to supply, install, test & commission of distribution board dust and vermin proof suitable for 250/415V single /Three Phase 50 C/S system. Knock out / gland plates as applicable shall be provided in the distribution board for incoming & outgoing cables. Earth terminal shall be provided on each distribution board. DB should be provided with danger notice / plate & earthing terminal.

(b): 12 Way SPN-DB, double door with (12+2) Module & IP-43 protection, similar to cat no. SHC M 12 of ABB make.

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- (c): 10 Way SPN-DB, double door with (10+2) Module & IP-43 protection, similar to cat no. SHC M 10 of ABB make.
- (d): RCCB-2pole, 40 amps, Sensitivity-100mA as incomer similar to cat no. FB202 AC-40/0,1 of ABB make.
- (e): RCCB-2pole, 63 amps, Sensitivity-30mA as incomer similar to cat no. FB202 AC-63/0,03 of ABB make.
- (f): MCB-2pole, 40 amps Breaking capacity-10kA, "C" series as incomer similar to cat no. SB202M-C 40 of ABB make.
- (g): MCB-2pole, 63 amps Breaking capacity-10kA, "C" series as incomer similar to cat no. SB202M-C 63 of ABB make.
- (h): MCB-SP, 6-32 amps, "B" series, 10kA (As SDB Outgoing)
- (i): Power Overvoltage Protection (POP) device similar to Legrand cat. no.: 4062 86 or similar of reputed make

NS-3: (a to b): Outdoor Lighting:

(a): The contractor shall have to supply & erection of 5 m high with single/ double arm as per requirement (similar to model no. BOP-5030 of Bajaj make), hot dip galvanized steel octagonal pole with inside cable termination and earth connection arrangement, weather proof flush door locking facility (both allen key locking arrangement and two hinges), galvanized base plate of **200x200x12mm**, foundation PCD **200mm** junction box with bakelite sheet with 6Amps MCB and stud terminals (for mounting inside the base compartment of pole), foundation bolt size **4x16mm** dia. **600mm** length including excavation and making foundation as per standard specification/drawing of the manufacturer. It shall be galvanized internally and externally by single dipping method as per BS EN ISO 1461. The drawing of pole and foundation shall be submitted by the firm from manufacturer. Cable termination arrangement inside the octagonal pole will be at junction box for easy maintenance. It includes supply & connection of **3 core** multistrand copper cable of size **0.75 sqmm**. The depth of foundation shall be **1200mm**, length x width of foundation shall be 500x500mm. Foundation consists **(1:3:6)** RCC with steel reinforcement having **8 nos. of 10mm** iron rod and rings shall be min. **5 nos. of 8mm** iron rod. Curing shall be done by the contractor for foundation as per satisfaction of site engineer.

(b): The contractor shall have to supply, install, test & commission of box with timer, MCB, contactor & toggle switch.

Box: CRCA sheet of size 300 x 300 x 150 mm IP-65 protection with powder coated, foamed in PU gasket, Gland plate, cam locking arrangement, wall/Rail as per site requirement mounting bracket.

Time switch: FM/1, QT, One Daily Dial, 240V AC similar to cat.no. J648B1 of L&T(GIC) make.

Contactor: ML-1.5, 25amps, AC-1 rating, coil voltage 240V, 50 Hz

MCB: Single pole, "B" series, Conforms to IS- 8828:1996 or latest, Capacity – 6-32 amps (AC), Phase/Voltage – 1Ph / 240 V, Frequency – 50 Hz, Breaking capacity – 10kA.

Toggle Switch: One/Two way toggle switch suitable for by pass the automation of lighting.

NS-4: (a to r): Wiring accessories:

(a): Supply of material & surface point wiring of phase/half, neutral & earth wire shall be carried out with PVC insulated multi stand 1.5 sq mm FR grade single core 1.1kV grade copper conductor confirming to IS:694 of 1990 or latest preferably with ISI certification mark wherever existing for Phase/Half, Neutral & Earth.

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The point shall be complete with 03plate ceiling rose / batten / angle holder & piano type switch (taken in separate NS-4k), wherever required junction box (1/2/3/4 way or as per site requirement) shall be provided. Size of junction box shall be as per concealed PVC conduit pipe.

Standard colour code shall have to be maintained for lighting circuits such as Phase/Half-Red, Neutral-Black and Earth-Green/Grey. No joints shall be permitted in point wiring.

Ceiling rose – 03plate, 6A, 240V, AC, ISI. Holder – 2A, 240V AC, ISI.

Point wiring shall be done in already laid PVC conduit. Short point shall be consider when length of point wiring less than or equal to 6 meters.

Any discrepancy occurred in engineering work during the wiring/rewiring should be restored in the original condition by the contractor, at his own cost.

(b & c): Supply of material & sub/service main wiring of phase, neutral shall be carried out by FR grade PVC insulated single core multi strand copper conductors of 1.1kV grade confirming to IS:694 latest of 1990 or latest preferably with ISI certification mark wherever existing. Standard colour code shall have to be maintained. No joints shall be permitted in the sub main / main wiring.

Standard colour code shall have to be maintained for lighting circuits such as Phase-**Red**, Neutral-**Black** and Earth-**Green/Grey**.

Phase & Neutral – 2.5 sq mm & earth wire 1.5 sq mm.

Phase & Neutral – 4.0 sq mm & earth wire 2.5 sq mm.

(d to i): The contractor shall have to supply of material and fixing of 12, 8 & 4 way modular metal flush boxes with suitable size cover plate (inner and outer) complete in all respect.

(j): The contractor shall have to supply, install, test & commission of modular type electronic regulator for ceiling fan in socket size, rotary step type (05 steps), 02 modular type, 240VAC, 50Hz including groove cutting connection/wiring on lighting switch board.

(k): The contractor shall have to supply, install, test & commission of Modular switch – 10Amps, One way/SP, 1 modular, 240V AC, ISI marked.

(l): The contractor shall have to supply, install, test & commission of Modular type socket – 06amps, 2/3 Pin (5-Pin), 240V, AC, 2 modular type Universal (two pins & earth).

(m): The contractor shall have to supply & fixing of 1 modular blank plate at vacant space in the modular box as per requirement.

(n): The contractor shall have to supply, install, test & commission of shuttered 2 Modular socket – 6/16amps, 240V, AC, ISI marked.

(o): The contractor shall have to supply, install, test & commission of Modular switch – 16amps, One way/SP, 1 modular, 240V AC, ISI marked.

(p): The contractor shall have to supply & fixing of powder coated fan box & fan rod. Fan box shall be fabricated out of 1.6 mm CRCA sheet & dia of steel rod 12 mm. The ceiling fan shall be fixed and commissioned by providing fan box at the time of civil engineering work, if fan box is not provided than ceiling fan shall be fixed and commissioned by providing suitable size fan hook made from not less than 16 mm dia. MS rod or MS fan clamp made from MS flat not less than 50x6mm and 12 mm dia. MS Rod, nut bolts etc. Any discrepancy occurred in engineering work during the fixing of the ceiling fan should be restored in the original condition by contractor at his own cost.

(q): The contractor shall have to supply, install, test and commissioning of 01 Modular SP-MCB, 25Amps Breaking capacity-3kA, “C” series including connection / wiring on lighting switch board.

(r): The contractor shall be responsible for the complete assembling, installation, and connection of indoor and outdoor light fittings, fans etc. at the designated locations on walls, ceilings, or as required at site. All fittings shall be firmly fixed using wooden screws after drilling appropriate holes and installing rawl plugs, or by any other method suitable to site conditions.

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All fans and light fittings shall be electrically connected to the ceiling rose using 1.5 sq. mm PVC-insulated, multi-strand flexible copper conductor. The wiring from each street-light fitting to the junction box / overhead line (OHL) / underground (UG) cable shall be executed using 2 × 2.5 sq. mm unarmoured copper cable with proper support and fixtures to ensure safe and reliable operation.

Note: Fan & fittings shall be supplied by the Railway.

NS-5: (a): Strip Earthing:

The contractor shall have to supply of material and construct earth pits / electrodes of G.I. strip as under:

Earth Electrode: 25x6mm G. I. Strip Approximate single piece of 15 meter length, Galvanized coating, relevant IS .

Inspection Chamber: Square earth station C.C. Block, C.C. Ratio: 1:3:6, chamber with RCC/G.I. cover & handle.

Method of Earthing: The equipment shall be connected to the main by G.I. earth wire from the earth pit.

The strip electrode of cross section shall not be less than 25 mm x 6 mm of GI and buried in horizontal trenches of minimum 45 cms in width and 0.5 mtrs depth, laying of GI strip, refilling it with charcoal and salt in successive layers, connection with 8 SWG GI wire and complete in all respect of installing, testing & commissioning of earth electrode.

The electrode shall be as widely distributed as possible in a single straight or circular trenches radiating from a point.

The measurement of the earth resistance shall be carried out as per IS.

The contractors at his own cost shall bring Instrument/ meters required for testing.

Each earth pit shall give a minimum resistance as specified in IE rules.

Earth conductor shall be properly supported by G.I. Saddles supports by T.W. Blocks/rowl plugs grouted on the walls.

Earth conductors crossing the floor shall be buried at a depth of 6" and then cemented.

Earth conductors underground laid at a depth of not less than 0.6 meter.

Earth conductors running vertically along the wall also shall be embedded and to be covered with plaster.

The earth pit shall have to be covered in a cement concrete cover and top cover of G.I. or RCC slab with handle.

The value of earth resistance should be written on the earth pit with date of reading as per direction of site engineer.

The contractor and Railway representatives shall measure Earth resistance at each electrode jointly. No Earth electrode shall have a greater ohmic resistance between 5 to 8 ohms for service buildings and staff quarters in the driest of season except in the case of Sub stations.

If the above stated earth resistance is not achieved, necessary improvement shall be made by the contractor by provision of additional electrode or by artificial treatment of soil etc. as may be directed by the engineer in charge. The Earth pipe should be covered by suitable metal threaded cap / top.

NS-6 (a to b): CLS Panel:

(a): The price shall cover cost for supply of 10 KVA Change over panel as per RDSO specification No. TI/SPC/PSI/CLS/0020(12/02) (with A&C slip No. 1 to 4) & TI/ SPC/ PSI/ CLS/ 0023 with A&C slip 1 to 3 or latest and suitable for 10 KVA AT Supply. The price also cover cost of any relay, fittings, glands, fasteners, lugs etc. for commissioning of panel and smooth working.

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(b): The price shall cover cost for erection of 10 KVA change over panel as per RDSO specification No. TI/SPC/PSI/CLS/0020(12/02) (with A&C slip No. 1 to 4) & TI/ SPC/ PSI/ CLS/ 0023 with A&C slip 1 to 3 or latest and suitable for 10 KVA AT Supply. The price also cover cost of any relay, fittings, glands, fasteners, lugs etc. for commissioning of panel and smooth working. The CLS panel pre-checked by the site Rly Engineer before erection. All tools & testing kit shall be provided by the contractor for conducting the required tests as per Rly. norms. The CLS panel shall be fixed at the site as specified by the Rly. Site Engineer with proper fittings.

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1. Standard Specification

Wherever a reference to any I.S. specification appears in this tender paper, the same shall be taken as a reference to the latest version of the said specification.

2. Standard Makes

(i) All items endorsed by BEE under star rated labeling scheme should be of 3 star or above rated of BEE approved make (preferably 5 Star).

(ii) The contractor shall have to supply the material as per specifications of BIS, IEC, MNRE etc.

(iii) Items not covered in above para should be ISI marked of reputed brand and as per technical specifications given in tender document. List of applicable IS codes is attached as **Annexure A**.

Rules & Regulations of work:

1. Work will be executed as per Indian Electricity rules.

2. The rules & regulations for this work shall be governed by the GCC & guidelines issued from Railway board time to time.

3. Various materials under various NS items shall be inspected & checked by the Railway representative before starting the work.

Scope of work:

It includes supply, installation, testing & commissioning of point & sub main wiring, DB, MCB's, junction boxes, earthing, cable laying, CLS panel etc. complete in all respect as per satisfaction of the site engineer.

Approvals:

Approval of samples / documents / drawings of **NS-1a, 2a to 2i, 3a to 3b, 4a to 4o, 4q, 6a** be obtained from Sr. DEE/G/Ajmer office.

Others:

1. Schedule of rates are only the brief idea of items, Quantity & Rates but work will be carried as per specification.

2. All the work shall be carried out as per IE rules & regulation, Code of practice for Electrical Wiring Installation as per schedule of rate & specification.

3. After completion of Electrical work the contractor will under take the Civil Engg. Work to re patch the wall, ceiling, road, plaster and fill up the recesses etc. of the same.

4. No extra payment shall be be paid to the contractor for transportation, loading & unloading.

Payment Conditions:

1. 60% payment will be made of NS items after receiving & acceptance of material at site. **(60% payment against supply will be made for NS-1a, 2a to 2i, 3a to 3b, 4d to 4o, 4q, 6a only)**

2. 20% payment will be made after successful installation of NS items.

3. 20% payment will be made after successful commissioning of NS items.

Location & Jurisdiction of work:

SN	Location / Station	Jurisdiction
1	Ghosunda & Fatehnagar Stations	SSE-P-Mavli Junction

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Eligibility Criteria:

The contractor or executing agency from which the electrical work is to be executed should have valid electrical contractor license issued by government before execution of work.

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