

Himatnagar Nagarpalika

SCHEDULE B

NAME OF WORK:- Street Light Work For Dhandha Railway Crossing To Hatmati River bridge To PratapGardh Petrol Pump at Himatnagar Nagar Palika Area.

MEMORANDUM SHOWING THE DETAILS OF ITEM OF WORK TO BE CARRIED OUT

Quantities estimated	Unit	Item of work	Tender Rate		Per	Total Amount
			In figure	In words		
1	2	3	4	5	6	7
4.00	Ea.	<u>Item No:-1</u> Supplying & erecting IP 55 grade 150 x 90 x 75 cms section pillar fabricated from 14 Gauge thick joint less M.S. Sheet with angle iron legs 95 cms long made from 40 x 40x 6 mm thick. Jointless M.S. Angle with cable clamps to be buried in ground to have appropriate erection to work Uniform Until erected with cement concrete foundation and 45 cms high bricks work finishing with plaster etc. hinged double door with 4" x 6" vision panel covered with Mesh & V. panel overlapping with flap for meter reading internally supported on both side,	19695.00	Rupees Nineteen Thousand Six Hundred Ninety Five Only	Ea.	78780.00
20.00	Kg.	<u>Item No:-2</u> Supplying and erecting bakelite sheet 12mm thick HYLAM make on existing angle iron frame.	131.30	Rupees One Hundred Thirty One and paise Thirty Only	Kg.	2626.00
5.00	Rn.Mtr	<u>Item No:-3</u> Supplying and erecting triple pole & neutral 440V / 500V panel mounting Copper Busbars with four equal Nos. of electrolyte bus having current density not more than 1.6 Amp. / sq.mm (Rated current / cross section area) duly wrapped with colour insulating tape for phase sequence of following current carrying capacity, erected with necessary bus bar supports /insulators, main cable socket to each bar, erected in existing cubical panel with necessary connections. (A) Suitable for 100 Amp. Capacity	1858.40	Rupees One Thousand Eight Hundred Fifty Eight and paise Forty Only	Rn.Mtr	9292.00

1	2	3	4	5	6	7
12.00	Ea.	<u>Item No:-4</u> Supplying and erecting Ammeter / Voltmeter selector switch for 3 phase AC Supply 500 V on existing panel board with necessary connections.	373.70	Rupees Three Hundred Seventy Three and paise Seventy Only	Ea.	4484.40
4.00	Ea.	<u>Item No:-5</u> Supplying and erecting approved make panel mounting type Digital Ammeter having 3 digits LED display, external CT operated, calibrated for 0 to 1000 Amps suitable to operate on 500 Volt AC , erected on existing panel board with all connection, wiring etc .with manufacturers calibration certificate.	1838.20	Rupees One Thousand Eight Hundred Thirty Eight and paise Twenty Only	Ea.	7352.80
4.00	Ea.	<u>Item No:-6</u> Supplying and erecting approved make panel mounting type Digital Voltmeter having 3 digits LED display, 0 to 750 AC Volts range erected on existing panel board with all connection, wiring etc .with manufacturers calibration certificate.	1504.90	Rupees One Thousand Five Hundred Four and paise Ninety Only	Ea.	6019.60
4.00	Ea.	<u>Item No:-7</u> Supplying and erecting approved make set of indicator lamps of LED type lamp, lens cover, Bakelite holder complete erected with necessary connections.	126.25	Rupees One Hundred Twenty Six and paise Twenty Five Only	Ea.	505.00

1	2	3	4	5	6	7
12.00	Ea.	<u>Item No:-8</u> Providing & erecting L.T. Current Transformer with bar primary 50/5 to 1000/5 ratio 15 VA burden erected in existing CRCA box duly secured with insulating materials connected to the meter	323.20	Rupees Three Hundred Twenty Three and paise Twenty Only	Ea.	3878.40
4.00	Ea.	<u>Item No:-9</u> Supplying & erecting approved make Digital time switch having lithium cell 6 years operative and operate battery backup 1 channel day clock with 14 memory programme, suitable to operate on 240V + 5%, 16A with, floating contacts Minimum switching setup time 1 minimum & LCD display. Also comprised permanent ON/OFF switching. Programming switches & housed in fire proof thermoplastic enclosure & transparent cover erected as required with necessary connection erected as directed	3737.00	Rupees Three Thousand Seven Hundred Thirty Seven Only	Ea.	14948.00
8.00	Ea.	<u>Item No:-10</u> Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 25 KA. at 415 V, having normal current rating up to 25 A to 100A. with Fixed thermal & magnetic release suitable to work on A.C. supply 50 c/s. with all internal connections & complete erected in existing 16 G.M.S. housing. ICS=100% of ICU only Cat III	6352.90	Rupees Six Thousand Three Hundred Fifty Two and paise Ninety Only	Ea.	50823.20
48.00	Ea.	<u>Item No:-11</u> Providing & erecting 240 V MCB double pole switch for motor & inductive load (C Curve) having 10 KA breaking capacity & confirms to IS : 8828 in existing box having following capacity (A) 6 to 32 Amp. Cat.III	308.05	Rupees Three Hundred Eight and paise Five Only	Ea.	14786.40

1	2	3	4	5	6	7
211.00	Ea.	<u>Item No:-12</u> Miniature circuit breaker single pole 6A to 32A suitable to operate on 240 V A.C. system and having breaking capacity 10 KA to be erected in existing box. confirming to IS 8828/1996 with ISI Mark Cat.III	116.15	Rupees One Hundred Sixteen and paise Fifteen Only	Ea.	24507.65
4.00	Ea.	<u>Item No:-13</u> Supplying & erecting power contactor for time switch complete erected as per direction Cat III [D] 4 pole 440V 40 Amp.	3282.50	Rupees Three Thousand Two Hundred Eighty Two and paise Fifty Only	Ea.	13130.00
450.00	mtr	<u>Item No:-14</u> Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (A) 3 1/2 core 25 Sq. mm (16 Sq. mm 1/2 core)	303.00	Rupees Three Hundred Three Only	mtr	136350.00
6471.00	mtr	<u>Item No:-15</u> Providing and erecting XLPE (IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (c) 4 core 10 Sq. mm	146.45	Rupees One Hundred Forty Six and paise Forty Five Only	mtr	947677.95
2030.00	mtr	<u>Item No:-16</u> Supplying and erecting Flexible PVC insulated multistrand multicore 1.1 kv grade ISI marked copper wires of following size to be erected as directed. e) 1.50 Sq.mm 3 core round PVC sheathed	45.45	Rupees Forty Five and paise Forty Five Only	mtr	92263.50
390.00	Ea.	<u>Item No:-17</u> Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. (d) 2 to 4 core 10 Sq. mm	40.40	Rupees Forty and paise Forty Only	Ea.	15756.00

1	2	3	4	5	6	7
6.00	Ea.	<u>Item No:-18</u> Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. (A) 3 & 1/2 / 4 core 25 Sq. mm	70.70	Rupees Seventy and paise Seventy Only	Ea.	424.20
108.00	Ea.	<u>Item No:-19</u> Solderless crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (D) 25 Sq.mm.	15.15	Rupees Fifteen and paise Fifteen Only	Ea.	1636.20
6.00	Ea.	<u>Item No:-20</u> Solderless crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (C) 16 Sq.mm.	15.15	Rupees Fifteen and paise Fifteen Only	Ea.	90.90
1560.00	Ea.	<u>Item No:-21</u> Solderless crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (B) 10 Sq.mm	12.12	Rupees Twelve and paise Twelve Only	Ea.	18907.20
6471.00	mtr	<u>Item No:-22</u> Providing & laying. Double walled corrugated pipes (DWC) of polyethylene(conforming to IS 14930 II)with necessary connecting accessories of same material at required depth for laying of cable. below ground / road surface for enclosing cable and back filling the same to make ground as per original. (A)50 mm dia	146.45	Rupees One Hundred Forty Six and paise Forty Five Only	mtr	947677.95

1	2	3	4	5	6	7
450.00	mtr	<u>Item No:-23</u> Providing & laying. Double walled corrugated pipes (DWC) of polyethylene(conforming to IS 14930 II)with necessary connecting accessories of same material at required depth for laying of cable. below ground / road surface for enclosing cable and back filling the same to make ground as per original. (B)90 mm dia	217.15	Rupees Two Hundred Seventeen and paise Fifteen Only	mtr	97717.50
6471.00	mtr	<u>Item No:-24</u> Making trench in soft soil of suitable width of 90 cms deep for laying cable or locating the fault all over the run and backfilling the same and making the surface as normal ground.	40.40	Rupees Forty and paise Forty Only	mtr	261428.40
365.00	mtr	<u>Item No:-25</u> Making trench in Hard murum / Tar Road of suitable width of 90 cms or required depth for laying cable or locating the fault all over the run and back filling the same and making the surface as normal ground.	60.60	Rupees Sixty and paise Sixty Only	mtr	22119.00
100.00	mtr	<u>Item No:-26</u> Providing & laying. R.C.C. hume pipe for cable to be laid 90 cms. below ground across the road crossing or on floor with necessary material in an approved manner and making the ground as per original. (C) 100 mm dia.	212.10	Rupees Two Hundred Twelve and paise Ten Only	mtr	21210.00

1	2	3	4	5	6	7
189.00	Ea.	<u>Item No:-27</u> Providing and fixing approved make Octagonal poles. Made from CR sheet steel. The pole should be made as per IS. and shall be coated with hot dip galvanizing as per IS 2629/4759. with required base plate suitable suspend local wind speed to be erected on existing foundation with inbuild junction box. (I) 9 Mtr. Long 70 mm Top X 175 mm bottom dia, 3 mm thickness	16564.00	Rupees Sixteen Thousand Five Hundred Sixty Four Only	Ea.	3130596.00
189.00	Ea.	<u>Item No:-28</u> Providing street light pole bracket comprising main Light Class MS tube of 4.2 cms. outside dia. complete with suitable M.S. sleeve tubing of approx. 45cms.length and suitable for 76.5mm. /80 mm or require size pole top having sufficient fastners for fixing the brackets and having suitable rise as per site condition as directed and spread of 2 mtr.with suitable welded stiffener reducer and with lock nut complete painted with one coat of Red oxide / PU base primer and two coats of Aluminium / PU paint. Suitable for side entry fitting brackets of following nos of arms. [a] Single Arm bracket 2 Mtr	787.80	Rupees Seven Hundred Eighty Seven and paise Eighty Only	Ea.	148894.20
10.00	Ea.	<u>Item No:-29</u> Providing street light pole bracket comprising main Light Class MS tube of 4.2 cms. outside dia. complete with suitable M.S. sleeve tubing of approx. 45cms.length and suitable for 76.5mm. /80 mm or require size pole top having sufficient fastners for fixing the brackets and having suitable rise as per site condition as directed and spread of 2 mtr.with suitable welded stiffener reducer and with lock nut complete painted with one coat of Red oxide / PU base primer and two coats of Aluminium / PU paint. Suitable for side entry fitting brackets of following nos of arms. [B] Double Arm Bracket 2 Mtr.	1212.00	Rupees One Thousand Two Hundred Twelve Only	Ea.	12120.00

1	2	3	4	5	6	7
2.00	Ea.	<p><u>Item No:-30</u></p> <p>Providing street light pole bracket comprising main Light Class MS tube of 4.2 cms. outside dia. complete with suitable M.S. sleeve tubing of approx. 45cms.length and suitable for 76.5mm. /80 mm or require size pole top having sufficient fastners for fixing the brackets and having suitable rise as per site condition as directed and spread of 2 mtr.with suitable welded stiffener reducer and with lock nut complete painted with one coat of Red oxide / PU base primer and two coats of Aluminium / PU paint. Suitable for side entry fitting brackets of following nos of arms.</p> <p>[C] Triple Arm Bracket 2 Mtr.</p>	1636.20	Rupees Ten Thousand Six Hundred Eighty Five and paise Eighty Only	Ea.	3272.40

1	2	3	4	5	6	7
1.00	Ea.	<p><u>Item No:-31</u> Supplying, erecting, testing, commissioning approved make M.S. Polygonal High Mast Pole having following general Specification. (a) Polygonal Section fabricated from M.S. Plate confirms BSEN 10025 & Hot deep galvanised minimum 65/86 micron (as per IS 01461) Lantern carriage with ring and rubber lines for erection of luminaries of suitable site. (b) Maximum telescopic section not more than four (c) Double drum gear pipe motorised winch with 6mm dia S.S. Rod (For 16 mtr and above size) (d) Approved make L.E.D. aviation light = 1 No. Lighting arrestor = 1 No. with necessary wiring of 2.5 sq.mm 5 core ISI copper cable Unarmoured. (e) Bottom most section suitable for mounting reversible motor and switchgears having door not more than 1400mm x 300mm with waterproof gasket & hinges & locking arrangement. (f) Pole structure comprises suitable size of reversible motor, cable and necessary switchgears. (g) bottom section shall have suitable size of thickness supports ribs foundation bolts nuts etc. (h) Item not comprises the cost of lanterns. (i) Necessary Cement Concrete foundation as per IS including testing & commissioning of the entire structure for following size of High Mast poles [CAT.II] [1] High Mast 12 Mtr. TOP A/F 105 Mm, BOTTOM A/F 360 Mm, No. of Sec. No. - 1, Bottom Thickness - 3 mm, Size Base Plate - 520 x 16, Foundation Bolt Size M24 x 850, Qty - 6 Nos., Suitable for mounting Fitting of Light - 6 Nos.</p>	167104.50	Rupees One Lakh Sixty Seven Thousand One Hundred Four and paise Fifty Only	Ea.	167104.50

1	2	3	4	5	6	7
210.00	Ea.	<p><u>Item No:-32</u></p> <p>Supplying and erecting LED street light light fittings with High power White LEDs wattage of 1Watt and above assembled on single MCPCB, efficiency more than 120 lm/w and corrosion free High pressure die cast aluminum housing with smooth finish powder coated and heat sink extruded aluminium with diffuser and Polycarbonate optics/ lenses with company mark/name engraved or embossed</p> <p>120 to 300 V,Power Factor more than 0.95, THD < 10 %, CCT 5000 K to 5700K,</p> <p>Uniformity ratio >0.45, Luminaire efficacy> 85 lumens/watt .</p> <p>LED driver efficiency > 85 %.</p> <p>CREE / OSRAM / PHILIPS Lumileds / NICHIA / SEOUL/ BridgeLux (U.S.A.) make LED used for luminaire. (Each fittings required LM-79 & LM-80 certificates)</p> <p>(A) Street Light (IP-65), Surge -4KV</p> <p>(g) 90 watts Cat-III</p>	10685.80	Rupees Ten Thousand Six Hundred Eighty Five and paise Eighty Only	Ea.	2244018.00

1	2	3	4	5	6	7
5.00	Ea.	<p><u>Item No:-33</u></p> <p>Supplying and erecting LED street light / Flood light fittings with High power White LEDs wattage of 1Watt and above assembled on single MCPCB, efficiency more than 130 lm/w and corrosion free High pressure die cast aluminum housing with smooth finish powder coated and heat sink extruded aluminium with diffuser and Polycarbonate optics/ lenses with company mark/name engraved or embossed</p> <p>120 to 300 V,Power Factor more than 0.95, THD < 10 %, CCT 5000 K to 5700K,</p> <p>Uniformity ratio >0.45, Luminaire efficacy> 85 lumens/watt . LED driver efficiency > 85 %.</p> <p>CREE / OSRAM / PHILIPS Lumileds / NICHIA / SEOUL/ BridgeLux (U.S.A.) make LED used for luminaire. (Each fittings required LM-79 & LM-80 certificates).(A) Street Light (IP-65), Surge -4KV.(D) Post Top Lantern LED fitting comprises of Copper dust finish cast aluminum spigot and spun aluminum canopy fixed with opal polycarbonate, pipe arrangement for vertical mounting,open construction driver and accessories wired upto terminal block.Flood Light (IP-65), Surge -4KV.(d)120 watts</p>	11837.20	Rupees Eleven Thousand Eight Hundred Thirty Seven and paise Twenty Only	Ea.	59186.00

1	2	3	4	5	6	7
4.00	Ea.	<p><u>Item No:-34</u> Supplying & erecting in earthpit of minimum bore dia. 225mm size ASH or approved make Safe Earthing Electrode consisting Pipe-in-Pipe Technology as per IS 3043-1987 made of corrosion free G.I.Pipes having Outer pipe dia of 80 mm having 80-200 Micron galvanising, Inner pipe dia of 40 mm having 200-250 Micron galvanising, connection terminal dia of 14 mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for following type of applications. [C] For Electrical Installation covering Transformer Neutrals, Lightning arrester Earthing, A.C.Plant & Sensitive Computer System(like Automation, SCADA)i.e. independent Earthing located in other than normal soil i.e. Soft Rock, Marshy Soil etc.. -Length of Pipe : 3 Mtrs. -Back filling Compound :2 nos Bags of 25 Kg.</p>	16665.00	Rupees Sixteen Thousand Six Hundred Sixty Five Only	Ea.	66660.00
100.00	Kg.	<p><u>Item No:-35</u> Providing and erecting HOT deep Galvanised iron strip wire 8 to 16 S.W.G.</p>	90.90	Rupees Ninety and paise Ninety Only	Kg.	9090.00
100.00	Kg.	<p><u>Item No:-36</u> Providing and erecting required size HOT deep Galvanised iron strip for earthing of H.T. , OCB/ ACB/ Transformer LT pannel board, Motors etc. using proper clamp.</p>	90.90	Rupees Ninety and paise Ninety Only	Kg.	9090.00
55.00	Cu. Mtr.	<p><u>Item No:-37</u> Providing cement concrete for foundation or for concrete filling in 1:2:4 ratio with 20 to 25 mm stone metal duly plastered with necessary curing for pole muffing or any purpose</p>	5080.30	Rupees Five Thousand Eighty and paise Thirty Only	Cu. Mtr.	279416.50

1	2	3	4	5	6	7
190.00	Ea.	Item No:-38 Pipe type earthing with 40mm dia 150 cms long and 2.5cms dia. Galvanised iron pipe with coupling and buch buried in specially prepared earth pit complete with necessary 8 SWG earth wire.	434.30	Rupees Four Hundred Thirty Four and paise Thirty Only	Ea.	82517.00
TOTAL AMOUNT Rs.:-						9006356.85
Say Amount Rs.:-						9006357.00
In Words :- Ninty lacs Six Thousand Three Hundred Fifty Seven Only						

I/We _ am/are willing to carry out the work at % above/below percent (should be written in figures and words) of

*Estimated Amount

put to tender Rs.

Deduct: % below Rs.

Net Rs.

In Words In Words

*Estimated Amount

Put to tender Rs.

Add ____% above Rs.....

Total Rs.....

(Please strike out whichever is not applicable)

Note-1- All work shall be carried out as per public works Department Hand book and other specifications of Division or as directed.

નોંધ -૧ :- બધું જ કામ બાંધકામ વિભાગની પુસ્તિકા અને ડિવિઝનની બીજી ખાસ વિગત મુજબ અથવા સૂચના પ્રમાણે કરી આપવાનું રહેશે.

Note -2- All the columns is schedule should be filled in ink and the total of the entires in the last column should be struck by the contractor under his signature.

નોંધ -૨ :- અનુસૂચિમાં બધા ખાનાની વિગતો સહીથી ભરવી અને છેલ્લા ખાનાની નોંધોનો સરવાળો કરી કોન્ટ્રાક્ટરે પોતાની સહી કરવી

Note-3- Rates quoted include clearnace of site (prior commencement of work and at its close) in all respects and hold good for work under all conditions, site,

નોંધ -૩ :- ટાંકેલા દરમાં, સ્થળની (કામના આરંભે અને પૂરું થાય તે વખતે) દરેક રીતે સાફસૂકી કરવાનો સમાવેશ થાય છે. અને તે દર તમામ પરિસ્થિતિ , સ્થળ, ભેજ, હવામાન વગેરે હેઠળ કામ માટે અમલમાં રહેશે.

Note -4- To be continued on additional sheets, if found necessary.

નોંધ -૪ :- જરૂર જણાય વધારાના કાગળો જોડી ચાલુ રાખવું.

Signature of contractor

Chief officer

Chairman

Chairman

President

Construction Committee

Standing Committee

HIMATNAGAR NAGAR PALIKA, HIMATNAGAR