

### **Schedule - A**

**NAME OF WORK:** : Supply, Installation, Testing & Commissioning (S.I.T.C.) of 7Mtr Hot Dip galvanised Octagonal Streetlight Poles with LED Luminaries Outdoor Streetlight fitting, control panel and allied accessories (Considering 25 Mtr. Distance between two poles ) incl. 5 Years Free comprehensive Guarantee period with 5 Years Free Operation & Maintenance for GIDC Chhapara Estate, District-Rajkot

**Schedule showing (approximately) the materials to be supplied from the GIDC store for work contracted to be executed and the rates at which they are to be charged for:**

Particulars	Rate at which the material will be charged to the contractor.			Place of Delivery.
	Unit	Rate in		
		Figures	Words	
1	2	3	4	5
Nil	Nil	Nil	Nil	Nil

Signature of Bidder

EXECUTIVE ENGINEER (M&E)  
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**Schedule - B**

<b>Name Of Work</b>	<b>Supply, Installation, Testing &amp; Commissioning (S.I.T.C.) of 7Mtr Hot Dip galvanised Octagonal Streetlight Poles with LED Luminaries Outdoor Streetlight fitting, control panel and allied accessories (Considering 25 Mtr. Distance between two poles ) incl. 5 Years Free comprehensive Guarantee period with 5 Years Free Operation &amp; Maintenance for GIDC Chhapara Estate, District-Rajkot</b>				
<b>Name Of Client</b>	<b>Executive Engineer (M&amp;E), GIDC, Rajkot</b>				
<b>Sr. No.</b>	<b>QTY.</b>	<b>DESCRIPTION OF ITEM</b>	<b>UNIT</b>	<b>RATE/ UNIT without GST</b>	<b>AMOUNT</b>
				<b>Rs.</b>	<b>Rs.</b>
<b>PART - A - (Material incl. 5 Years Free comprehensive Guarantee period)</b>					
1.0	237.00	Supplying and erecting approved make Octagonal pole made from HR sheet steel. The pole should be made as per IS. and shall be coated with hot dip galvanizing of <u>minimum avg. coating thickness of 85 micron</u> as per IS 2629/2633/4759, suitable suspend local wind speed with integral Junction box consist of terminal plate of min <b>12mm</b> Hylam sheet, standard profile 35mmX7.5mm Din-Rail for MCB Mounting, stud type terminal and arrangement for cable termination to be erected on suitable foundation as per details given by manufacturer considering site requirement..(E) 7 Mtr. Long 70 mm Top X 135 mm bottom dia, 3 mm thickness with 225mmX225mmX16mm base plate, 4-M20 Bolts and 600mm long J-Bolt EN 8 grade HDG foundation bolts along with template for the above poles with "GIDC" Logo on Name Plate. <b>Approx Pole weight 67 kg.</b> (Make- As per Approved Vendor List as below.). <b>Note :- J-type EN 8 grade HDG Foundation Bolt should be manufactured by manufacturer of the poles (to be supplied) only).</b>	Ea	11411.99	2704641.63
2.0	237.00	Providing and laying controlled cement concrete M.200 / 1:1.5:3 and curing complete excluding the cost of formwork and reinforcement for reinforced concrete work in (A) Foundations, footings, Base of columns and Mass concrete with 20 to 25 mm stone metal duly plastered with necessary curing for pole muffing by Excavating hard Murrum or Metal road by chiselling for preparing pit for poles or earth plates or for laying pipes & clearing the site by removing debris & making site good, Providing and laying cement concrete M10/1:3:6 (1-	Job	3544.36	840013.32

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		Cement : 3- coarse sand : 6- hand broken stone aggregates 40 mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth for Foundation PCC Work of 100 mm thickness. Providing formwork of ordinary timber planking so as to give a rough finish including centering shuttering strutting and propping etc. Height of propping and centering below supporting floor to ceiling not exceeding 4 M. and removal of the same for in situ reinforced concrete and plain concrete work in. (A) Foundations Footings Bases of Columns etc. and Mass concrete. (Extra for Providing formwork with sheathing steel sheets so as to give a fair finish in (A) Foundations, Footings, Bases of Columns etc. and Mass concrete). Providing TMT bar FE 415 reinforcement for RCC work including bending, binding and placing in position complete upto floor two level. Finishing wall with weather proof exterior emulsion paint on wall surface (two coats) to give an required shape even shade after thoroughly brushing the surface to remove all dirt, and remains of loose powdered materials etc. complete.- For 7 mtr Pole Foundation sized :- 500 x 500 x 1550 mm or as per OEM foundation drawing- (1 No. Per St. Light Pole).			
3.0	1896.00	Providing & Fixing of Solderless Crimping Type Aluminium Lugs (4 Nos. per termination) conforming to IS suitable for 1 x 4.0 Core x 16/25 Sq. MM PVC Insulated Aluminium Armoured cable evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. - (4 Nos. Termination Per St. Light Pole)	Ea	15.15	28724.40
4.0	474.00	Providing & erecting 240 V MCB Single pole switch for lighting Load (B Curve) having 10 KA breaking capacity & conforms to IS : 8828/1996 in existing box having following capacity. (A) 0.5 to 2 Amp. Cat. III - (2 No. Per St. Light Pole for 1 No. - Phase & 1 No. - Neutral) (Make- As per Approved Vendor List as below.)	Ea	270.68	128302.32
5.0	237.00	Providing and erecting Funnel Pipe type earthing having 150 cms. long and 2.5 cms. dia. galvanised iron pipe with coupling and buried in specially prepared earth pit complete with necessary 8 SWG earth wire and required size HOT deep Galvanised iron strip for earthing of Street light pole using proper clamp with using salt and charcoal / coke as required for pipe type earthing. (1 Job Per St. Light Pole) (Make- As per Approved Vendor List as below.)	Job	602.57	142809.09

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6.0	237.00	Providing & erecting Decorative <b>Sword</b> Type Street Light pole Bracket comprising main B Class MS pipe of 4.2 cms/require outside dia. and shall be coated with hot dip galvanizing as per IS 2629/2633/4759 complete with suitable B Class MS sleeve tubing of approx. 45 cms length and suitable for 76.5 mm /80 mm/ require size of pole top having sufficient fastners for fixing the brackets and having suitable rise as per site condition and having spread of 1.5.mtr. length with 110 deg.with vertical plane & suitable welded stays, reducer and with check nuts complete painted with one coat of Red oxide / PU base primer and two coats of Aluminium / PU paint suitable for side entry fitting brackets, as per site condition and as per drawing / directed by Engineer Incharge. with following nos of arms. (A) Single Arm Bracket 1.5Mtr. – Decorative Sword Type (1 No. Per St. Light Pole) As per drawing attached ( <b>Make- same as per pole make mentioned in Approved Vendor List as below.</b> )	Ea	1897.77	449771.49
7.0	237.00	Supplying and erecting 90 Watt LED street light fittings with High power White LEDs wattage of 3 Watt and above assembled on single MCPCB with Fixed Programmable microprocessor based Dimmable Driver, efficiency more than 150 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 90 to 300 V,Power Factor more than 0.95, THD < 10 %, CCT 4000 K to 5700K,Uniformity ratio >0.45, Luminaire efficiency> 150 lumens/watt . LED driver efficiency > 85 %.CREE / OSRAM / PHILIPS Lumileds / NICHIA / SEOUL/ LG/BridgeLux (U.S.A.) make LED used for luminaire. ( Fittings required LM-79 & LM-80 certificates)-(A) Street Light (IP-66), Surge Protection -4KV and 10 KV non integral, Light must have 440VAC line supply protection. It should withstand 48 hours for 440VAC line supply.(Cat-III) The fitting should be suitable for side entry having suitable socket bore for clamping complete erected having IP-66 Protection Class.(1 No. St. Light Fitting per Arm x 1 Single Arm = 1 No. LED Fitting). (Make- As per Approved Vendor List as below.)	Ea	6178.17	1464226.29
8.0	2133.00	Supplying and erecting Flexible FR PVC insulated multi strand multi core 1.1 kV grade	Mtr	46.46	99099.18

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		ISI Marked Copper wires of 1.5 Sq. MM., 3 core round PVC sheathed in existing pipe/ in street light pole erected with green colour for earth continuity. - (11 / 9 Mtr. per St. Light Fitting x 1 No. St. Light Fitting = 9/ 7 Mtr Pole.) (Make- As per Approved Vendor List as below.)			
9.1	8295.00	Providing & erecting of 1 x 4.0 Core x 10 Sq. MM, XLPE (IS: 7098 (i) - 88), ISI Mark, Armoured cable, Multistranded Aluminium Conductor suitable for 1.1 kV grade to be laid on wall with necessary clamps or to be laid 90 Cms underground in existing cable trench/ pipe at road crossing or on floor and making the ground as per original. - For Streetlight between two poles & Service Connections.(Considering 25 Mtr. Distance between two poles and extra cable for loop = 35 Mtr.) (Make- As per Approved Vendor List as below.)	Mtr	140.39	1164535.05
9.2	60.00	Providing & erecting of 1 x 4.0 Core x 16 Sq. MM, XLPE (IS: 7098 (i) - 88), ISI Mark, Armoured cable, Multistranded Aluminium Conductor suitable for 1.1 kV grade to be laid on wall with necessary clamps or to be laid 90 Cms underground in existing cable trench/ pipe at road crossing or on floor and making the ground as per original. - For Streetlight between two poles & Service Connections.(Considering 25 Mtr. Distance between two poles and extra cable for loop = 35 Mtr.) (Make- As per Approved Vendor List as below.)	Mtr	153.52	9211.20
10.1	7110.00	Providing & laying of approved make 50 MM outer dia Doubled Walled Corrugated Pipes (DWC) of polyethylene (conforming to IS 14930 - II) with necessary connecting accessories like coupler, Tee, L - Bow, etc. of same material at required depth (90 cms) for laying of cable below ground/ road surface for enclosing cable and back filling the same to make ground as per original & as per instruction of Engineer Incharge - for Streetlight Cable of 1 x 4 core x 16 Sq. MM. (30 Mtr Per Between two Pole)	Mtr	62.62	445228.20
10.2	709.00	Providing & laying of approved make 90 MM outer dia Doubled Walled Corrugated Pipes (DWC) of polyethylene (conforming to IS 14930 - II) with necessary connecting accessories like coupler, Tee, L - Bow, etc. of same material at required depth (90 cms) including excavation for laying of cable below ground/ road surface for enclosing cable and back filling the same to make ground as per original & as per instruction of Engineer Incharge - for Streetlight Cable of 1 x 4 core x 16 Sq. MM and Service cable of 1 x 4 core x 16 Sq. MM. (Make- As per Approved Vendor List as below.)	Mtr	95.95	68028.55

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11.1	4.00	<p>Smart 4G Timer, Supply of IoT based 4G Smart Streetlight Control &amp; Monitoring System having a Smart Panel comprising of 3 Phase IoT Streetlight Smart 4G Timer with 16x2 LCD to display RSSI, relay status, RTC time &amp; diagnostics., Controller works on 3-phase &amp; also on any available 1-Phase., Controller with 8-hour battery backup during external power failure. External power failure alert immediately to cloud., 110-630 V AC @ 50-60 Hz – 3 phase operating range., Standby power consumption &lt;3W., Smart 4G Timer with RS232 port for DLMS Energy meter., Smart 4G Timer must be compatible with any make / brand of DLMS (RS232) Energy Meter., DI: 4 Nos. (3 Contactor / Latch detection, 1 for Door Sensor.), DO: 3 Relays for Independent control each phase (R, Y, B) with 1 extra spare relay., Smart 4G Timer with dual SIM functionality for connectivity backup., 4G M2M SIM 3-Year communication included., Local configuration via WiFi / BLE for maintenance or during force majeure., GPS chip inbuilt of Smart 4G Timer for auto location tracking &amp; astronomic schedule location., 50 programmable schedules., Astronomic scheduling with monthly offsets., Smart 4G Timer has inbuilt timer stores schedules locally &amp; also stores schedule execution logs locally, syncs to cloud whenever connected to cloud., Auto-scheduler overrides manual operations., Monitoring &amp; alerts for MCB trips., Over/under voltage, current, overload, power factor &amp; short circuit protections with alerts via Dashboard, App, SMS, WhatsApp &amp; Email., Contactor / Latch chattering protection &amp; alerts., Smart 4G Timer with neutral failure protection and alert., Bulit-in Watchdog for anti-jamming., Smart 4G Timer must send Regular "heartbeat" on software for CCMS status., Accelerometer for tamper &amp; panel movement detection &amp; alerts., Smart 4G Timer must be tested from an NABL Lab for Surge Test @ 6 KV (IEC 61000-4-5), ESD Test @ 4 KV (IEC 61000-4-2), EFT @ 2 KV (IEC 61000-4-4), Conducted Emission @ 150 KHz-30 MHz (CISPR11), Damp Heat Test (40 Deg C @ 95% RH) 2 cycles of 12+12 hours (IS: 9000 (Part 5/Sec.2):1981 latest) with all test passing criteria as “Temporary degradation or loss of function or performance which is self-recoverable”., FOTA functionality required for upgrades., Smart 4G Timer sends &amp; stores online/offline data of controller &amp; load for lamp burn hours analysis., It stores &amp; syncs connectivity logs for configuration of network connections &amp; analytics., PANEL &amp; SWITCHGEAR, The panel includes a Class 1 DLMS energy meter NABL approved with 1-2</p>	Ea	100427.33	401709.32
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	<p>months of stored data of daily, hourly, monthly, load survey, instantaneous, events, tamper data &amp; with power events stored in meter memory for audit purpose., Must monitor V, I, KWH, KVA, PF, KVAH, etc., Panel made with 2 mm CRCA sheet with ground mountable stand complete with gland plate, waterproof glands, earthing bolt., IP55, weatherproof panel with RAL7035 powder-coated., Smart 4G Timer must be fitted on removable terminal sockets for easy maintenance., Switchgear includes 3 Nos. 3 pole Contactor / Latch having minimum 50 A Load carrying capacity per phase, all other switchgear &amp; wires: 40 A load carrying capacity., 1 Nos. 4P MCB 10 kA for Incomer &amp; 6 Nos. 1P MCBs 10 kA for Outgoing., Phase-Wise Bypass MCBs required., 4P RCCB 100 mA., door sensor. Also, provide lock &amp; key facility., Panel mount outdoor antenna for GSM, GPS., Canopy design for draining down water., CCMS SMART SOFTWARE, OAuth 2.0 APIs for sending data to Government clouds/software, etc., CCMS Web dashboard with secure password &amp; OTP login., Hosted on trusted cloud, data security, antivirus &amp; attack protection., HTTPS., AES256-bit encryption., Vulnerability Assessment and Penetration Testing (VAPT) certificate for CCMS Software., Streetlight management software for load status, live analytics &amp; reports., Energy meter data tables (kW, kWh, PF, I, V, etc.) available., Utility monthly bill reconciliation &amp; Class 1 accuracy reports for billing, energy monitoring &amp; auditing for streetlight load., Fault detection., Light fault 99% analysis on dashboard using energy monitoring., WhatsApp integration., Hierarchy-wise reporting &amp; alerts., GIS mapping of live connected streetlight control panels, poles &amp; streetlights., MQTT protocol., Smartphone app with local configuration &amp; navigation., Monitoring &amp; reporting of lighting parameters., Facility for media attachments for site photos/videos/work permits/checklists, etc. per Feeder Panel for remote verification., Asset management module for streetlight infrastructure data., Complaint/service task management with history &amp; escalation must be available., Android &amp; iOS App for dashboard analytics, graphs, energy data, alerts., 5 Years CCMS Web Software &amp; Cloud Server Hosting subscription included., Customizable, user-friendly dashboard.,</p> <p>(Make- As per Approved Vendor List as below.)</p>		
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11.2	4.00	"Supplying & erecting in earthpit of minimum bore dia. 150mm size approved make Earthing Electrode consisting Pipe-in-Pipe Technology as per IS 3043-1987 made of corrosion free hot dipped G.I.Pipes having Outer pipe dia of 50 mm having 80-200 Micron galvanising, Inner pipe dia of 25 mm having 200-250 Micron galvanising, connection terminal dia of 12 mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for following type of applications with chamber and heavy duty cover.(approved make OEM has to submit test certificate including value of earth resistance of installation.) & having back filling compound of (B) Inner Chemical (CCM Compound) - Resistivity :- 0.2 Ohm/meter testing as per IEC 62561-2017 , Voltage Drop :- < 1 volt at no load & dry form , Sulphur content :- <2% .(C) Back filling compound :- Earthing compound should be capable to retain moisture for long time. Necessary test report must be submitted.(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.- (1 Job per Distribution Box)" (Make- As per Approved Vendor List as below.)	Ea	8636.51	34546.04
12.0	241.00	Painting the number and words for inventory Identification on erected fittings / equipment's or Such accessories as may required with good quality of enameled paint as directed by engineer in charge (i) up to 20 characters, up to 50 mm height. (As Instructed by engineer in charge.)	No.	22.22	5355.02
13.0	709.00	Drilling the road without breaking the road surface (Asphalt) for laying of cable for feeding power supply by making up to 150mm dia.size of holes at both ends complete. (As Instructed by engineer in charge.)	Mtr	616.10	436814.90
14.0	7110.00	Making trench in hard murrum/ tar road of suitable width of 90 cms or required depth for laying any size of cable or locating the fault all over the run and back filling the same and making the surface as normal ground.(B) If additional machinery like hammer driller or JCB use [Add] (As Instructed by engineer in charge.)	Mtr	357.54	2542109.40
<b>Part - A- Total</b>					<b>1,09,65,125.40</b>

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<b>PART - B - ( Power Supply Connection Charges, Operation &amp; Maintenance Charges of Complete Street Light System for 5 Years)</b>					
15.0	4.00	Annual Maintenance charge: Agency has to carry out Maintenance of the streetlight network after 1st year of completion of the project which is included in Defect Liability Period,in such a way that through all year,streetlight network will run with 100% efficiency. Agency has to carry out Manintencanc with Manpower, Material ,Tools & Tackles . No extra payment will be provided to agency. (As Instructed by engineer in charge.)	Per Year	106287.69	425150.76
16.0	5.00	Annual Operation charge: Agency has to carry out Operation of the streetlight network after completion of the project which is included in in such a way that through all year, streetlight network will run with 95% efficiency. Agency has to carry out operation with Manpower, Material ,Tools & Tackles . No extra payment will be provided to agency (Unskilled Labour 1 No. & Skilled Labour 1 No.). (As Instructed by engineer in charge.)	Per Year	401655.36	2008276.80
17.0	4.00	Service Connection Charges includes Charges for obtaining N.O.C from Electrical Inspector / Statutory authority for Power / Ele. Installation on behalf of client and shall be paid on submission of orignial receipt to Client.Charges shall include preparing required attasted documents & drawing for obtaining NOC on behalf of client.-10 KW , 3-Phase	Job	23178.79	92715.16
<b>Part - B- Total</b>					<b>25,26,142.72</b>
<b>Part - A- + Part - B - Total Rs.:</b>					<b>1,34,91,268.12</b>
<b>Say Rs.:</b>					<b>1,34,91,268.12</b>

**Note:- The quoted price shall include all taxes (excluding GST), duties, levies, overheads, insurance, transportation, freight, construction cess etc. whatsoever is applicable and the price shall remain firm till the completion of the project in all respect.**

I / we am/are hereby agree to carry out the above work at \_\_\_\_\_ % (in figures) above / below \_\_\_\_\_ percent (in words)below/above the estimated rates mentioned above (should be written in figures and words). Amount of my / our tender works out as under:

*Estimated amount put to tender	<b>Rs. 1,34,91,268.12</b>	*Estimated amount put to tender	<b>Rs. 1,34,91,268.12</b>
Deduct__% below	Rs. _____ _____	Add__% above /below	Rs. _____ _____
Net	Rs. _____	Total	Rs. _____

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In words		In words	

**I /We hereby declare that I /We have visited the site and fully requisite myself / ourselves with the local situation regarding materials labour and other factors pertaining to work before submitting tender.**

**I /we hereby declare that / We have carefully studied the conditions of contracts detailed technical specification and other tender documents of this work and agree to execute the same accordingly.**

**Note :-**

- (1) The materials/sample for work should be got approved from the Competent Authority / Executive Engineer (M&E) In charge of the work.
- (2) The materials and work shall have to be used and carried out as specified in technical note.
- (3) All works shall be carried out as per Public Works Department hand book & Other Specification of the Division Or as directed by Engineer in- Charge/ Executive Engineer (M&E), GIDC, Rajkot.
- (4) Rate are Inclusive of 1% Labour cess in Tender amount so 1% of total amount of bill will be deducted from the bill.

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## **SCHEDULE OF QUANTITIES**

### **NOTES:-**

These preambles apply to all the sections of Schedule of quantities and tendered rates shall take into account all these provisions in other parts of the tendered documents.

1. The quantities in this schedule are provisional. The contractor will be paid for the actual quantity of work executed at site at the rates quoted in his tender. The Corporation reserves the right to increase or decrease any of the quantities or to omit any item of work totally and any claim by the contractor in these accounts will not be entertained.
2. All the items of work given in this schedule of quantities shall be executed strictly in accordance with the Indian Electricity Act, the Indian Electricity Rules & Regulations, Requirements of the Electric Supply Authority, National Electrical Code (NEC) or NFPA 70, is a regionally adoptable standard for the safe installation of electrical wiring and equipment in the United States. It is part of the National Fire Code series published by the National Fire Protection Association (NFPA), National Building Code read in connection with the relevant drawings, specifications and appropriate Indian Standards
3. All measurements shall be taken in accordance with the Indian Standard Electrical installation in Factory method of measurement of IS 5908/1970 unless otherwise specified.
4. The contractor shall visit the site and shall satisfy himself as to conditions under which the work is to be performed. No extra claim consequence of ignorance or on grounds of insufficient description will be allowed at a later date.
5. No alteration, whatsoever, is to be made to the text of quantities of this schedule of quantities unless alteration is authorized in writing by the Corporation. Any such alteration, notes or additions shall unless authorized in writing be disregarded when tender documents are considered.
6. In the event of error occurring to the amount column of the schedule, as a result of wrong extension unit rate and quantity, the unit rate quoted by the Tenderer shall be regarded as firm and the extension shall be amended on the basis of the rates.
7. All error in totaling in the amount column and in carrying forward totals shall be corrected.
8. All error in description or in quantity or omission of items from the contract schedule shall not vitiate this variation required by the Corporation.
9. Wherever there are similar items appeared in the schedule of quantities under different headings, then the lowest rate will be considered.

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**LIST OF APPROVED VENDOR OF ITEMS / EQUIPMENTS FOR STREETLIGHT**

<b>SR. NO.</b>	<b>LIST OF ITEMS</b>	<b>APPROVED MAKES</b>
<b>1</b>	HOT-DIP GALVANIZED OCTAGONAL POLE Incl. J-TYPE BOLT and TEMPLET.	BAJAJ/TRANSRAIL/VALMONT/RR ISPAT/UTKARSH or Eq.
<b>2</b>	DECORATIVE STREET LIGHT BRACKET (SWORD TYPE)	BAJAJ/TRANSRAIL/VALMONT/RR ISPAT/UTKARSH or Eq (As per Drawing attached Separately )
<b>3</b>	LED OUTDOOR STREET LIGHT / INDOOR LIGHT	BAJAJ/PHILLIPS/SCHREDER/LIGMAN/WIPRO/ CROMPTON/ /HAVELLS or Eq
<b>4</b>	FR PVC INSULATED WIRE	FINOLEX/TORRENT/POLYCAB/RAVIN(PRIMECAB)/KEI/RR Cable or Eq
<b>5</b>	XLPE ARMOURED CABLE	FINOLEX/TORRENT/POLYCAB/RAVIN(PRIMECAB)/KEI/RR Cable or Eq
<b>6</b>	LUG	DOWELL's/ISMILE/3D/JAINSON or Eq
<b>7</b>	GLAND	COMET/HMI/SIEMENSE or Eq
<b>8</b>	MCCB/MCB/ELCB/MCCB/ CONTACTOR	ABB/L&T/SIMENSE/HAVELLS/LEGRAND/SCHNEIDER/HAGER or Eq
<b>9</b>	DIGITAL TIME SWITCH & CONTACTOR	ABB/L&T/SIMENSE/HAVELLS/LEGRAND/SCHNEIDER/HAGER or Eq
<b>10</b>	DOUBLE WALL CORRUGATED (DWC) POLYTHINE PIPE	DURALINE / JAIN Irrigation/GEMINI/VARAHI/REX or Eq
<b>11</b>	CCMS PANEL	MOTWANE/KAKATIYA ENERGY SOLUTION/MEMIGHTY/ PYROTECH or Eq.
<b>12</b>	EARTHING	RAPID/ASHLOK/OBO/INDELEC/SULAH SAFE SOLTION or Eq
<b>13</b>	LED INDICATION LAMP	SIEMENS /SCHNEIDER /L&T /BINAY /ABB /MG /KAPPA /TECHNIC /GE /VAISHNO

**Note :- For percentage/unit rate works, makes other than above which are approved time to time by R&B/ GWSSB/CPWD department and mentioned prevailing (Current) Govt. SOR can be considered /used with prior approval of the competent authority / E.E (M&E) GIDC, Rajkot**

Signature of Bidder

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## ANNEXURE – E

**(Bidder must read carefully and Submit the detail as Required by Annexure – E.)**

### **Particulars and Details to be submitted by the bidder:**

In order to properly assess and due diligence on submissions, the Proponent should provide following information on the quality and photometric of proposed luminaries.

### **LUMINAIRE SELECTION CRITERIA**

#### **DESIGN PARAMETERS: -**

It is defined as Performance Parameters and Fixed parameters as below: -

#### **PERFORMANCE PARAMETERS: -**

All the luminaries shall be finalised based on the performance requirement as below: -

**Table # 1**

Type of existing luminaire	Rated Wattage of existing luminaire	Rated Input Power of LED luminaire (max.)
-NA -	-NA -	90W

**Table # 2**

Sr. No.	Parameter Data/ Details of LED	For luminaire	
		90 W	90 W (Offer by Bidder)
1	Mounting Height (Vertical Distance of luminaires from the floor level)	7.2 m (Approx.)	
2	Width of the road	Upto 24 mtr (ROW) Upto 7 mtr (Carpet)	
3	Average spacing	25 m (As per site requirement)	
4	Measured Average Illumination Level(Based on the maintenance factor of 0.90)	20 lx or more (As per site requirement)	
5	Tilt Angle (wrt to road surface)	0° to 15°	

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<b>6</b>	Min. Uniformity Ratio ( $E_{min}/E_{avg}$ )	0.4	
<b>7</b>	Min Transverse Uniformity Ratio ( $E_{min}/E_{max}$ )	0.3	
<b>8</b>	Correlated Colour Temperature	3000°K to 4500°K (ANSI Binning)	
<b>9</b>	Colour Rendering Index (min.)	> 70	
<b>10</b>	Illumination Regulation	<5% (wrt Ta & Line Voltage)	

**Note:** - Above performance parameter and fixed parameters (1, 3 and 4) shall be proved during on site testing.

#### **Illumination Level:**

The detailed calculation with uniform distribution including the lux distribution curve/ graph/spatial distribution shall be submitted in support of the dimensions selected and variation thereof. The luminaire shall be so designed that the illumination level shall be evenly distributed and shall be free from glare.

Signature of Bidder

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**LED FIXTURES TECHNICAL PARTICULARS:-**

The LED Street Light system will have to meet the following Specifications:

Sr No.	Description	GIDC Requirement	Bidder's Specification
1	LED Fixture Make	BAJAJ/PHILLIPS/SCH REDER/WIPRO/ CROMPTON/ /HAVELLS or Eq (Mentioned Only One Make)	
2	LED Fixture Model No.	<b>Bidder has to specify as per Technical design parameters.</b>  Avg. 20 lx or more  <b>(As per DiLuX/ Software Lux Level Calculation Mentioned Only One Make)</b>	
3	Wattage of Fixtures and Driver	90W with Fixed Programmable microprocessor based Dimmable Driver	
4	Stated Lumens output of Fixture	For 90 W >= 11700	
5	LED Rated Operating Current (mA)	<b>Bidder has to specify</b>	
6	No(s) of LEDs (Chips) to be Used in Luminaire	<b>Bidder has to specify</b>	
7	Luminaire manufacturer	<b>Bidder has to specify</b>	
8	Rated Input of LED Streetlight luminaire	<b>Bidder has to specify</b>	
9	Initial lumen output (Rated)	<b>Bidder has to specify</b>	
10	LED Luminaire's <b>IS Registration Number &amp; Date</b>	For 90 W	
11	BIS Certification ( <b>must required otherwise</b> )	90W –	

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	<b>fitting shell not be accepted.)</b>	Must be Valid Bureau of Indian Standard (BIS) Certification of LED luminaires respective Model No / family of LED luminaire models. (In event of expiry of BIS of the same model No, Renewal license application of same Model to will be presented along with technical document submission)	
12	LED with Fixed Programmable microprocessor based Dimmable Driver's make, model no. and <b>IS Registration Number (R-Number) (Separate Registration Number (R-Number) must required otherwise fitting shell not be accepted.)</b>	For 90 W  (BIS approval is must along with R-number allotted by BIS.)	
13	Lumen output (as per LM79 report, mentioning current In mA)	<b>Bidder has to specify</b>	
14	Lumen Depreciation (L70 mentioning temperature in Deg C and current mA)	<b>Bidder has to specify</b>	
15	Lighting Distribution Type	Cut Off/ Semi Cut Off type as per IESNA  Type II/ III Lighting Distribution	
16	Maintenance Factor	0.85	
17	Correlated colour temperature (CCT)	>4000K $\pm$ 300K (Warm White)	
18	Protection Class	IP 66 , Class 1 as per IEC	

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		60529.	
19	Impact Resistance of complete luminaire	IK 08	
20	Avg. Ambient Temperature (as per IEC)	35 deg C	
21	Avg. Power Factor	> 0.95	
22	Material of Construction: - Luminaire  Heat Sink  Diffuser/ Lens	<b>Bidder has to specify</b>	
23	Housing Construction	The body shall be robust, corrosion resistant superior in finish & without any cracks or through holes, made in a single piece by high pressure die cast ADC 12 aluminium alloy. The luminaries shall be monolithic construction totally enclosed dust tight & water proof. The luminaries shall be class I luminary. Degree of protection shall be IP66 as defined in Appendix A of IS10322 (Part-I 1982)with latest amendments.	
24	Heat Sink/Dissipation	Integrated with in luminaire & The dimensions of luminaries shall be adequate to permit sufficient heat dissipation through the body itself, so as to prevent abnormal temperature rise inside the lantern & consequential damage	

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		to cover & gasket materials ,LEDs, lenses & Electronic Driver.	
25	Covers	<p>Toughened glass/IP Lenses. It shall not get discoloured shall not suffer degradation due to heat and ageing. The cover shall preferably be secured with suitable metallic or stainless steel hinges or with metallic stainless steel hinges at one end on the footpath side and with toggle at the other end. The toggle shall catch the glass cover firmly and shall not get released due to shock, vibrations and breeze. UV stabilized glass cover shall not get cracked due to frequent opening and closing of hinges and toggle. When the luminaries is closed, should conform with IP-66 Class.</p> <p><b><u>Note : Driver box should have separate dedicated cover to ensure IP protection of the LED side in case of repair/maintenance.</u></b></p>	
26	Gasket	A extruded silicon loop gasket shall be provided in the lantern body to ensure a weather proof seal between the UV glass cover and the metal housing to exclude the entry of dust, water, insects, etc. When the luminaries is	

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		closed, should conform with IP 66 Class. Felt gasket will not be accepted.	
27	Application	Outdoor use	
28	System Efficacy - Lm/W at 25 deg C Amb. Temp. (supported by LM79 Test report from government approved third party lab)	<b>≥150</b>	
29	Guarantee/ Warranty	Five (05) Years Free on-site replacement Guarantee/ Warranty on the SITC of LEDs, Fixture & Driver which covering material fixture, finish and workmanship.	
30	Protection	Over Heat, Over Load, Short Circuit, HV Surge - 4 KV (Inbuilt within Driver) , external 10kv 10ka	
30.1	Short Circuit protection	Recovers automatically after fault condition is removed	
30.2	Over Voltage protection	Should be able to withstand 440V for minimum 4 hours.	
30.3	High – Low voltage cut off	In side Luminary or a device to be installed on the pole in an IP protected box sustaining 270V for Higher side cutoff & 140 V on lower side cut off- Beyond & below it Shut down & restore normal working condition when voltage	
	Earthing	Driver Unit shall have provision for proper	

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30.4		grounding	
31	Certification	LM 79, LM 80, RoHS, EMC, EMI, CE	
32	Marking	Company LOGO Engraving/ Embossing on Body, GIDC – Estate Name Marking <b>(Stickering not allowed)</b>	
33	Electrical Connector	LED Wire with Flexible 3core 1.5 Sq MM FRLS copper cable of Min. 1 meter long should be provided.	
34	Usage Hours	Dusk to Dawn. (range 10 hours to 12.75 hours/ day	
35	<b>Beam angle</b>	135 deg / 80 Deg	
		Horizontal Spread 135 Deg. &	
		Vertical Spread 80 Deg.	
36	LED	<b>High Power White LED of 3 Watt and above.</b>  <b>LED should be photo biological complied only.</b>  <b>Bidder has to specify</b>	
36.1	Name of LED chip manufacturer	CREE / OSRAM / PHILIPS Lumileds / NICHIA / SEOUL/LG Bridge Lux (U.S.A.)  (Mentioned Only One Make)	
36.2	LED chip model name and number	<b>Bidder has to specify</b>	
36.3	LM 80 report from the LED chip manufacturer on the lumen depreciation	<b>Bidder has to specify</b>	

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	characteristics of the specific LED chip employed in the proposed luminaire product		
36.4	LED junction temp. in deg C Ta= 35 deg C	>80	
36.5	Rated Life of LED Chip at L70 (LM 70)	> 50,000 Hrs (with Min. 70 % Lumen Maintenance @ Ta = 35 deg C ambient temp)	
36.6	P/N junction temperature	<100 Degrees C at Junction point and <60 at Heat Sink.	
36.7	Lens Material	Polycarbonate	
36.8	Electrical connector(s)	<b>Bidder has to specify</b>	
36.9	Optical System	The optical system will consists of individual Penut/PC/PMMA lenses on high power LEDs designed & tested to achieve typical street lighting distribution from the LED lantern. This is to ensure maximum utilisation of light flux on the carriageway and minimum glare on the footpath side of the lantern and also in the direction of vehicular traffic	
36.10	Rated Supply Voltage (AC, 50 Hz)	230/ 240 V	
36.11	Optical Efficiency	> 88%	
36.12	Working Humidity	10% - 90 % RH	
36.13	Working Temp in deg C	00 to 50 deg C	
36.14	Input Voltage Range ( Vac)	90 to 300 V AC with Auto resetting Safety	

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		Cut-off.	
36.15	Input Frequency	50 Hz +/- 3% Hz	
36.16	CRI (Color Rendering Index)	> 70	
36.17	Lumen Maintenance Factor	70% upto 50,000 Burning Hrs. Life Span	
36.18	Uniformity Ratio	> 0.4	
36.19	Audible Noise	Shall have Class-A sound rating with audible noise in power supply	
36.20	Dimensions	<b>Bidder has to specify</b>	
36.21	Weight	<b>Bidder has to specify</b>	
37	LED Driver Type and Specification  (Fixed Programmable microprocessor based Dimmable Driver)	Constant Current	
		Drivers should be constant current drivers with separate compartment, also driver compartment should be IP66. Driver should have cut off protection above 300V AC and should work automatically at nominal voltage. Driver should also have Double phase protection, no load, open circuit and short circuit protection. <u>SELV (Safety extra low voltage) complied driver with more than 65V DC output.</u> <b>LED drivers used must be appropriately sealed/potted. Driver Should be EMI/ EMC Certified. Necessary certification submitted along with data sheet.</b>	
37.2	Name of the manufacture	<b>Bidder has to specify</b>	

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		(Mentioned Only One Make)	
37.3	Model Name and Number	<b>Bidder has to specify</b>	
37.4	Driver Current	$\leq 750 \text{ mA}$ <b>OR</b> <b>Bidder has to specify</b>	
37.5	Driver Efficiency	$> 90\%$	
37.6	LED Driver's rated life (hours) {min. 50,000 Operating hours}	<b>For 90 W</b> <b>Bidder has to specify</b> (Expected lifetime of the LED driver used in the proposed luminaire)	
37.7	Additional MOV protection for protection of LED driver.	<b>Must be provided, voltage rating of <math>270 \pm 1\%</math>.</b>	
37.8	Protection of MOV must cover	<b>phase-neutral, neutral-earth &amp; phase-earth terminals</b>	
37.9	LED driver Cut off Voltage/optional arrangement (if provided)	<b>Bidder has to specify</b>	
37.10	Estimated cost of driver replacement by your company, including component and installation cost.	<b>Bidder has to specify</b>	
37.11	Control Gear	Integral Design (Tested & Certified for Performance & Safety mandatory from Government approved lab)	
37.12	Total Harmonic Distortion (THD) Amp	$< 10 \%$	
37.13	Total Harmonic Distortion (THD) Voltage	$< 10 \%$	
37.14	IEC/BIS Compliance	Confirming to IEC-61347-1 & IEC 61347-2-	

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		13 or BIS	
		IEC 61547,610-3-2,CISPR-15 or BIS	
38	Certification	Electrical safety certification such as ISI ,BIS.	
39	<b>Test Reports:-</b>	<p>The tenderer shall submit the test reports from Government accredited test laboratory of offered luminaires confirming to all type test as per IS 10322 (Part5 Sec 3)/ IS 16105/106 2012 and essentially LM79(For luminaire efficiency &amp; performance) and LM80 (For LED Source life from source manufacturer) test report as per International Engineering Society of North America(IESNA) along with the offer. IP 66 Report for luminary and driver (for protection from dust and water), Type test report of 10KV surge test (For SPD as per IES 61000-4-5, IK08 report for luminary along with the offer.</p> <p><b>Manufacture's should have Valid ISO-9001-2008, ISO 14000 and ISO 45001 or equivalent certificate for the Bidder for In-House Design, Development, Testing, Manufacturing, Marketing and Lighting</b></p>	

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		<b>Application.</b>  <b>LM79 report along with IES file of the luminaire must be from NABL, ERDA, CPRI, UL or TUV lab.</b>	
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**Note:** - Above performance parameter and fixed parameters (1, 3 and 4) shall be proved during on site testing.

**Illumination Level:**

The detailed calculation with uniform distribution including the lux distribution curve/ graph/spatial distribution shall be submitted in support of the dimensions selected and variation thereof. The luminaire shall be so designed that the illumination level shall be evenly distributed and shall be free from glare.

**Design for the GIDC – Estate Road**

Sr.No	GIDC- Estate specification requirement		Bidder confirmation	
	LED Source (Input Power) Including driver power in Watts	Average Illum. Level reqd. on road carriageway with LED luminaire (Lux)	LED Source (Input Power) Including driver power in Watts	Average Illum. Level reqd. on road carriageway with LED luminaire (Lux)
1	90 W	20 or More	—	—

**SIGNATURE AND THE SEAL OF MANUFACTURER**

**SIGNATURE AND THE SEAL OF BIDDER**

Signature of Bidder

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### **TESTING AND DOCUMENTATION**

<b>Performance Characteristic</b>	<b>Methods of Measurement</b>	<b>Required Documentation</b>	<b>Bidder to Confirm</b>
Integral LED Lamp Efficacy: Light Output Input Power	IESNA LM-79-2008 ANSI C82.2-2002	Laboratory test results must be produced using the specific modules/ arrays and power supply combination that will be used in production.	
Power Factor	ANSI C82.77- 2002	Laboratory test results must be produced using the specific modules/ arrays and power supply combination that will be used in production	
Lumen Maintenance (L70) for LEDs	IESNA LM-80-2008	LED manufacturer test results for Minimum 6000 hour lumen maintenance data for the LED packages/arrays/modules used in the integral LED lamp. Lumen maintenance data must meet at least the following conditions: - Collected at LED case or solder point temperature (Ts) equal to or greater than the verified TMP temperature of the integral LED lamp; and- Measured at a forward drive current equal to or greater than the drive current applied to the LEDs in the integral LED lamp.	
Colour Rendering Index	ANSI C78.377-2008 IESNA LM-79- 2008 CIE 13.3-1995 IESNA LM-58-94	Laboratory test results must be produced using the specific modules/ arrays and power supply combination that will be used in production	
Chromaticity & Correlated Colour Temperature	ANSI C78.377-2008 IESNA LM-79- 2008 CIE 15 : 2004  IESNA LM-58-94 IESNA LM-16-93	Laboratory test results must be produced using the specific modules/ arrays and power supply combination that will be used in production	

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Colour Spatial Uniformity and Colour Maintenance	IESNA LM-79-2008 CIE 15 : 2004 IESNA LM-58 IESNA LM-16 IESNA LM-80	Self Certification	
Audible Noise	Class-A sound rating: Power supply not to exceed 24 dB	Self Certification	
Integral LED lamp Warranty		Provide copy of the actual three-year manufacturer warranty included in the packaging	
Safety of LED Lamps	BIS Certificate	LED manufacturer test results of the safety test report with a general coverage statement.	
Test certificates	ERTL / CPRI/MNRE /ERDA/ NABL Accredited Laboratory	The bidder shall furnish test certificates certifying performance of the integral luminaries' for the tests mentioned as below: a) Insulation resistance test b) HV test c) Over Voltage Protection test d) Surge Protection test e) Reverse polarity test f) Temperature rise test g) Fire Retardant test h) Photometric tests i) IP class test j) Power Consumption	
<b>Driver Performance Testing</b>			
Safety of drives	BIS Certificate	Valid Driver BIS Certificate should be submitted	
Surge test	IEC 61000-4-5/BIS	Laboratory test results must be produced using the specific modules/ arrays and power supply combination that will be used in production	
SPD Test	IEC 61000-4-5/BIS	Laboratory test results must be produced using the specific modules/ arrays and power supply combination that will be used in production	

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**Document Need to Submitted with Technical – Bid.**

<b>Sr.</b>	<b>Description</b>		<b>Remarks</b>	<b>Mode of Submission</b>
<b>1</b>	LM 80 Report of LED Chip(s) to be used	:	---	Attested hard Copy **
<b>2</b>	LM 79 report of LED Luminaire(s) to be offere	:	---	-as above-
<b>3</b>	Impact resistance (IK) test report(s) for all LED luminaires to be offered	:	---	-as above-
<b>4</b>	LED driver test report including efficiency	:	---	-as above-
<b>5</b>	LED Driver approval certificate issued by BIS with R-Number	:	<b>Documentary evidences are must.</b>	-as above-
<b>6</b>	LED Luminaire approval certificate issued by BIS	:	<b>Documentary evidences are must.</b>	-as above-
<b>7</b>	IES file(s)	:	The bidder must submit ies file generated from LM 79 from UL or NABL approved laboratory test report(s)	Must be provided for all luminaires within 30 days from the date of work order

**All bidders must note specifically & submit their offer accordingly: -**

- All certificates/ documents/ submission(s) should be sealed and signed by relevant authority/ authorized person/ authorized signatory only.
- Bidder must check all certificate(s)/ document(s) to be furnished as mention in tender. If it is found (during any stage) that any content of any certificate/ document is being modified in comparison with the original then it will be considered as fraudulent practice and the bidder who has submit the offer/ tender will be held responsible for such practice(s).
- Further, various certificate(s) / document(s), which are issued by the other authority / agency / organization / govt. body shall be verified with the original certificate(s) / document(s) issued to the bidder, if required. Moreover, in case it is found that the content of document(s) / certificate(s) is / are modified then action(s) including debarring the bidder for min. 2 years for participation in any of GIDC's tender/ work and/or other action(s) as deemed fit as decided by the competent authority shall be taken.

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- If, it is found that, OEM has provided wrong / false / manipulated information / data to the bidder then, all the lighting products of concerned OEM will be banned for min. 2 years or other action(s) as deemed fit as decided by the competent authority shall be taken.
- All tests defined as “Acceptance Tests” other than IES LM 79 and IES LM 80, are allowed to be carried out at Manufacturer’s works. LM 79 must be prepared by NABL approved laboratory only. LM 80 report is prepared by LED Chip Manufacturer.

**SIGNATURE AND THE SEAL OF MANUFACTURER**

**SIGNATURE AND THE SEAL OF BIDDER**

Signature of Bidder

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**E-Tender (Online) Invitation Notice No: 08/2023-24/Sr No.5**

**Contractor's/ Bidder's Undertaking/ Certificate**

**NAME OF WORK:** Supply, Installation, Testing & Commissioning (S.I.T.C.) of 7Mtr Hot Dip galvanised Octagonal Streetlight Poles with LED Luminaries Outdoor Streetlight fitting, control panel and allied accessories (Considering 25 Mtr. Distance between two poles ) incl. 5 Years Free comprehensive Guarantee period with 5 Years Free Operation & Maintenance for GIDC Chaapra Estate, District-Rajkot.

- I/we hereby declare that I/We have persuaded in detail and examined closely the specifications/ general terms & conditions/ special terms & conditions/ important instructions/notes described in the tender documents. I/We hereby agree to be bound by and comply with all such specifications/terms, conditions etc.
- I/We also certify that I/We have visited the sites and inspected the locations of the proposed work and have collected all information including any minor modification work(s) required at sites before quoting my/our rates.
- I/We also confirm that my/our offer is strictly in line with the tender specifications, stipulations, terms and conditions etc. and understand that in the event of any deviations, technical or commercial, my/our price bid will not be opened.
- I/We also confirm that power consumption along with the required parameters will be proven during site testing. I/ We also confirm that our offer will not be considered in case not opted for site testing of the sample luminaires.
- I/We have understand the tender specifications/ terms/ conditions/ all content of tender and particularly intent behind the content and bind my/ ourselves for same.
- If any items/ conditions/ specifications/ scope of work is mentioned differently at more than one place(s) by chance, most appropriate decided by the department will apply & binding to the tenderer.

**SIGNATURE AND THE SEAL OF TENDERER:**

Signature of Bidder

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B1 Agreement Form and prevailing circulars

Signature of Bidder

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