

**HOWRAH DIVISION-GATI SHAKTI/EASTERN RLY
TENDER DOCUMENT**

Tender No: GSU-General-MSAE-001-23

Closing Date/Time: 09/05/2023 11:00

CPM/GSU/HWH DRM/HWH acting for and on behalf of The President of India invites E-Tenders against Tender No **GSU-General-MSAE-001-23** Closing Date/Time 09/05/2023 11:00 Hrs. Bidders will be able to submit their original/revised bids upto closing date and time only. Manual offers are not allowed against this tender, and any such manual offer received shall be ignored.

1. NIT HEADER

Name of Work	supply ,erection, testing, and commissioning of electrical wiring in connection with the work for direct Connectivity of Line from Rainagar to Masagram-Proposal for direct connectivity of line from Rainagar to Masagram station of HWH- BWN cord line section of E Rly.		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Single Packet System
Tender Closing Date Time	09/05/2023 11:00	Date Time Of Uploading Tender	15/04/2023 15:50
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	8464888.12	Tendering Section	GSU/HWH
Bidding Style	Single Rate for Each Schedule	Bidding Unit	
Earnest Money (Rs.)	169300.00	Validity of Offer (Days)	60
Tender Doc. Cost (Rs.)	0.00	Period of Completion	9 Months
Contract Type	Works	Contract Category	Expenditure
Bidding Start Date	25/04/2023	Are Joint Venture (JV) firms allowed to bid	No
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Capital (Works)

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule A-Variou supply ,erection, testing, and commissioning items of electrical wiring and lighting in connection with the work							8464888.12	Above/ Below/Par
001	001	250.00	Each	383.00	95750.00	AT Par	95750.00	
	Description:- Conceal wiring on wall/ceiling/floor through PVC pipe of suitable diameter for Light point / Fan point/Call Bell point / Indication point/ Glow Sign point bytwo nos. single core, HRFR / FRLS grade, PVC insulated, copper conductor cable of size 1.5 sq. mm. for phase and neutral along with one no. singlecore, HRFR / FRLS grade, PVC insulated,copper conductor cable of size 1.5 sq.mm. for Earth Con- tinuity Conductor (ECC) including supply of cable, GI concealed box with modular cover plate, PVC pipe, junction / circular box, modular switch,ceiling rose and all other associated work.							
002	002	30.00	Each	289.00	8670.00	AT Par	8670.00	
	Description:- Conceal wiring on wall/ceiling/floor through PVCpipe of suitable diameter for 6A/5 pin plug point by two nos. single core, HRFR / FRLS grade, PVCinsulated, copper conductor cable of size 1.5 sq. mm. for phase and neutral along with one no.single core, HRFR / FRLS grade, PVC insulated,copper conductor cable of size 1.5 sq.mm. for Earth Con- tinuity Conductor (ECC) including supply of cable, GI concealed box with modular cover plate, PVCpipe, junction / circular box, modular switch, mod--ular plug socket and all other associated work.							
003	003	10.00	Each	551.00	5510.00	AT Par	5510.00	
	Description:- Conceal wiring on wall/ceiling/floor through PVC pipe of suitable diameter for 16A/6 pin plug point by two nos.single core, HRFR / FRLS grade, PVC insu--lated, copper conductor cable of size 2.5 sq. mm.for phase and neutral along with one no.single core,HRFR / FRLS grade, PVC insulated, copper con--ductor cable of size 1.5 sq.mm. for Earth Conti--nuity Conductor (ECC) including supply of cable, GI concealed box with modular cover plate, PVC pipe, ction/circular box, modular switch, modular plug socket and all other associated work.							
004	004	10.00	Each	1384.00	13840.00	AT Par	13840.00	
	Description:- Conceal wiring on wall/ceiling/floor through PVC pipe of suitable diameter for modular type multi plug board consisting with three nos. 6A /5 pin modular plug socket, three nos. 6A modular switch, one no. 16 A / 6 pin modular plug socket, one no.16 A mod- -ular switch, one no.10A modular type MCB by two nos. single core, HRFR / FRLS grade, PVC insu- -lated,copper conductor cable of size 2.5 sq. mm. for phase and neutral along with one no.single core, HRFR / FRLS grade, PVC insulated, copper con- -ductor cable of size1.5 sq.mm. for Earth Continuity Conductor (ECC) including supply of cable, GI concealed box with modular cover plate, PVC pipe, junction / circular box, modular switch, modular plug socket and all other associated work.							
	005	4.00	Each	1084.00	4336.00	AT Par	4336.00	

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005	Description:- Conceal wiring on wall/ceiling/floor through PVC of suitable diameter for Window AC/ Split AC/ Water Cooler Point by two nos. single core, HRFR / FRLS grade, PVC insulated, copper conductor cable of size 4.0 sq. mm. for phase and neutral along with one no. single core, HRFR / FRLS grade, PVC insulated, copper conductor cable of size 2.5 sq.mm. for Earth Continuity Conductor (ECC) including supply of cable, GI concealed box with modular cover plate, PVC pipe and each board comprising with one power unit which includes one double pole modular MCB, one single phase starter and one 25A socket and plug with indicating 'light similar to NORTH-WEST Cat.No. - ACPU 6M-BT and all other associated work.						
006	006	500.00	Metre	71.00	35500.00	AT Par	35500.00
006	Description:- Conceal wiring on wall/ceiling/floor through PVC pipe of suitable diameter for Submain by two nos. single core, HRFR / FRLS grade, PVC insulated, copper conductor cable of size 4.0 sq. mm. for phase and neutral along with one no. single core, HRFR / FRLS grade, PVC insulated, copper conductor cable of size 2.5 sq. mm. for Earth Continuity conductor including supply of cable, GI concealed box with modular cover plate, PVC pipe and all other associated work.						
007	007	200.00	Metre	254.00	50800.00	AT Par	50800.00
007	Description:- Conceal wiring on wall/ceiling/floor through PVC pipe of suitable diameter for Main line by two nos. single core, HRFR / FRLS grade, PVC insulated, copper conductor cable of size 10.0 sq. mm. for phase and neutral along with one no. single core, HRFR / FRLS grade, PVC insulated, copper conductor cable of size 4.0 sq. mm. for Earth Continuity conductor including supply of cable, GI concealed box with modular cover plate, PVC pipe and all other associated work.						
008	008	1000.00	Metre	137.00	137000.00	AT Par	137000.00
008	Description:- Wiring of Light point by 2 nos. single core HRFR / FRLS grade, PVC insulated, copper conductor cable of size 1.5 sq.mm, 1100V grade for one no. phase and one neutral in GI conduit of suitable dia along with 1 no. single core HRFR / FRLS grade, PVC insulated, copper conductor cable of size 1.5 sq.mm, 1100V grade for Earth Continuity Conductor (ECC)						
009	009	50.00	Metre	164.00	8200.00	AT Par	8200.00
009	Description:- Wiring of light point by 4 nos. single core, HRFR / FRLS grade, PVC insulated, copper conductor cable of size 2.5 sq. mm. for three phases and one neutral in GI conduit of suitable dia. along with one no. single core, HRFR / FRLS grade, PVC insulated, copper conductor cable of size 1.5 sq. mm. for Earth Continuity Conductor (ECC).						
010	010	4.00	Each	534.00	2136.00	AT Par	2136.00
010	Description:- PVC Board comprising with 6 nos. 6A / 5 pin plug socket, 6 nos. 6A switch, 1 no. 10A MCB and 1 no. indicator (Red) including internal connections by HRFR / FRLS grade PVC insulated copper conductor cable.						
011	011	5.00	Each	1516.00	7580.00	AT Par	7580.00
011	Description:- Conceal wiring on wall/ceiling/floor through PVC pipe of suitable diameter for Mobile Charging Plug Board consisting with four nos. 6A /5 pin modular plug socket, four nos. 6A modular switch with one no.10 A modular type MCB by two nos.single core, HRFR /FRLS grade, PVC insulated, copper conductor cable of size 1.5 sq. mm. for phase and neutral alongwith one no.single core, HRFR / FRLS grade, PVC insulated, copper conductor cable of size 1.5 sq.mm. for Earth Continuity Conductor (ECC) including supply of cable, GI concealed box with modular cover plate, PVC pipe, junction/circular box, modular switch, modular plug socket and all other associated work.						
012	012	150.00	cm	14.00	2100.00	AT Par	2100.00
012	Description:- Wall / Pillar mounted Sheet Moulding Compound (SMC) Mobile Charging Plate for holding mobile set of width 125 mm (5 inch) duly painted including fitment with suitable attachment as per site condition						
013	013	50.00	Each	7340.00	367000.00	AT Par	367000.00
013	Description:- GI (minimum coating thickness 65 microns) conical / octagonal (minimum sheet thickness - 3mm) Pole of overall length 5 M with single / double arm bracket, top cover, base plate including hinged door-inbuilt Junction box complete with copper bar, insulator, Hylam sheet for cable termination and fuse kitkat / MCB						
014	014	50.00	Each	3130.00	156500.00	AT Par	156500.00
014	Description:- RCC Foundation, erection, testing and commissioning of Pole with construction of cement concrete muffing (Cement : Stone : Sand = 1 : 2 : 4) including earthing of pole with 1 no. 50mm dia heavy gauge GI pipe x 3M long and necessary earth connection by GI strip						
015	015	100.00	Each	189.00	18900.00	AT Par	18900.00
015	Description:- Wiring of light point by 2 nos. single core HRFR / FRLS grade, PVC insulated, copper conductor cable of size 1.5 sq.mm, 1100V grade for phase and neutral through pole from inbuilt pole Junction Box's porcelain fuse kit-kat / MCB to light fitting along with 1 no. single core HRFR / FRLS grade, PVC insulated copper conductor cable of size 1.5 sq.mm, 1100V grade for Earth Continuity Conductor (ECC)						
016	016	4.00	Each	1254.00	5016.00	AT Par	5016.00
016							

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	Description:- Junction Box made of 14 SWG GI sheet of size 450 mm x 300 mm x 250 mm consisting with 2 nos 63A porcelain fuse units (kitkats) conforming to IS:2086-1993 complete with hinged door with locking arrangement duly painted with two coats of paint after one coat of anti-corrosive Red Oxide Paint including fixing, connection, and commissioning on above Junction Box on AT mast with GI clamps made of GI flat of size 40 mm x 6 mm with GI nut-bolts						
017	017	2.00	Each	40383.00	80766.00	AT Par	80766.00
	Description:- Auto Change Over control and distribution panel for colour light signalling of rating 60A, 1Ph, 240V, 50Hz in 25KV AC Traction System as per RDSO's specification no. TI / SPC / PSI / CLS / 0023 or latest including installation, connection, testing and commissioning of above panel board along with terminal cable connection (Make : RDSO approved sources)						
018	018	10.00	Each	687.00	6870.00	AT Par	6870.00
	Description:- Supply of Junction Box made of GI sheet, complete with hinged door and lock incorporated with 4 nos. porcelain insulator, copper bar, hylam sheet for cable termination and fuse kit-kat /MCB of capacity 16A, 240V alongwith fixing on pole by suitable size and shape GI clamp / GI nut-bolt and commissioning of Junction Box						
019	019	200.00	Each	252.00	50400.00	AT Par	50400.00
	Description:- Indoor 20W LED batten complete with 20 Watt LED (Type of LED - Surface Mounting Device) tube with industrial grade constant current Driver (Efficiency - Greater than 85%) with short circuit protection, aluminium / polycarbonate housing and milky polycarbonate diffuser (Make/brand of LED chip-Nichia, Osram, Seoul, Philips, Lumileds, Everlight, Avago, Cree & Lednium), LED efficacy - Greater than 100 Lumens per Watt @ 350mA drive current, life span of LED chip - Greater than 50000 burning hours including all other accessories						
020	020	200.00	Each	82.00	16400.00	AT Par	16400.00
	Description:- Fixing, connection, testing and commissioning of above luminaire fittings with suitable arrangement						
021	021	110.00	Each	3127.00	343970.00	AT Par	343970.00
	Description:- Street light 45 Watt LED (Type of LED - Surface Mounting Device) luminaire, pressure die cast housing with Ingress Protection - IP65 or higher (Make/brand of LED chip-Nichia, Osram, Seoul, Philips, Lumileds, Avago, Cree) complete with all accessories. LED Efficacy - Minimum 120 Lumens / watt @ 350mA, Life span of LED chip - Greater than 50000 burnings hours						
022	022	10.00	Each	251.00	2510.00	AT Par	2510.00
	Description:- Fixing, connection and commissioning of street light luminaire with suitable dia heavy gauge GI bend pipe with GI clamps made of GI flat of size 40mm x 6mm and GI nut-bolts on structure / wall						
023	023	100.00	Each	173.00	17300.00	AT Par	17300.00
	Description:- Fixing, connection and commissioning of out door LED Flood light / Street Light fitting on High Mast Tower / Pole with suitable arrangement						
024	024	40.00	Each	2583.00	103320.00	AT Par	103320.00
	Description:- BLDC Ceiling Fan of sweep 1200 mm, Air delivery range from 210 cubic metre per minute to 220 cubic metre per minute and input power consumption range from 26W to 32W (Star Rating - 5 Star, Service Value - 6 & above cubic metre per minute per watt) with remote for speed control of fan suitable for operation on 1 Ph, 50Hz, 240V power supply system (conform to all the performance requirements laid down in IS 374:2019 including all amendments, as applicable) with 60 Months warranty.						
025	025	40.00	Each	52.00	2080.00	AT Par	2080.00
	Description:- Fixing, connection and commissioning of Ceiling Fan with suitable arrangement.						
026	026	10.00	Each	3113.00	31130.00	AT Par	31130.00
	Description:- BLDC Wall Bracket Fan of size 400 mm sweep suitable for operation on 1Ph, 220-240V, 50Hz supply system						
027	027	10.00	Each	87.00	870.00	AT Par	870.00
	Description:- Installation, connection and commissioning of above Wall Bracket fan with GI clamps made of GI flat of suitable size and GI nut-bolts on wall / structure						
028	028	6.00	Each	2448.00	14688.00	AT Par	14688.00
	Description:- Modular Exhaust Fan as per IS: 2312 or latest of Sweep 250 mm, White Colour, With Louver shutter, Plastic Fiber body.						
029	029	6.00	Each	159.00	954.00	AT Par	954.00
	Description:- Fixing, connection and commissioning of AC Exhaust Fan with suitable size and shape GI clamps / GI nut & bolts including necessary masonry work						
	030	1.00	Each	98244.00	98244.00	AT Par	98244.00

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030	Description:- LT cubicle Indoor Type Wall / Floor Mounted Distribution Panel Board made of 14 SWG (2mm) MS sheet duly powder coated comprising with the following : MCCB, 4 Pole, (100 - 125)Amp, 415V, 50Hz, 36kA (Microprocessor Release MTX2.0) - 2 nos MCCB, 4 Pole, (50 - 63)Amp, 415V, 50Hz, 36kA (Microprocessor Release MTX2.0) - 2 nos MCCB 32-40 A,4-Pole,B/CAP 25 kA -2 nos MCCB 16 A,4-Pole,B/CAP 25 kA -8 nos Tinned Copper Busbar (4 Bar) each of capacity 400 Amps., 415V, 50 Hz. - 1 set Static Multifunction panel mounting Energy Meter suitable for operation on 3Ph, 415V, 50Hz supply similar to L & T model-MFM 4410 LED meter Cl 1 with RS485 - 11 nos CT of suitable ratio for MFM - 24 nos LED indication lamp for Phases and "ON, OFF & Trip" indication - 42 nos Petty Store for cable gland, socket, fuse etc. - 1 job Fabrication work for above panel - 1 job						
031	031	1.00	Each	3566.00	3566.00	AT Par	3566.00
	Description:- Labour charge for fixing, connection, testing and commissioning of above panel including all incoming & outgoing cables Glanding,termination, socketing and connection.						
032	032	2000.00	Metre	221.00	442000.00	AT Par	442000.00
	Description:- Cross linked polyethelene (XLPE) insulated PVC outer sheathed stranded & shaped aluminium conductor cable of size 4 core, 70 sq mm with galvanized steel strip armoured suitable for rated voltage at 1100 volts grade and conforming to IS : 7098 Part-1- 1988 with amendment number 1 and 2 and 3 Reaffirmed 2005						
033	033	3500.00	Metre	186.00	651000.00	AT Par	651000.00
	Description:- Cross linked polyethelene (XLPE) insulated PVC outer sheathed stranded & shaped aluminium conductor cable of size 4 core, 50 sq mm with galvanized steel strip armoured suitable for rated voltage at 1100 volts grade and conforming to IS : 7098 Part-1- 1988 with amendment number 1 and 2 and 3 Reaffirmed 2005						
034	034	1000.00	Metre	124.00	124000.00	AT Par	124000.00
	Description:- Cross linked polyethelene (XLPE) insulated, PVC outer sheathed stranded & shaped aluminium conductor cable of size 4 core, 35 sq mm with galvanized steel strip armoured suitable for rated voltage at 1100 volts grade and conforming to IS : 7098 Part-1- 1988 with amendment number 1 and 2 and 3 Reaffirmed 2005						
035	035	1000.00	Metre	88.00	88000.00	AT Par	88000.00
	Description:- Cross linked polyethelene (XLPE) insulated, PVC outer sheathed stranded & shaped aluminium conductor cable of size 3 core, 16 sq mm with galvanized steel strip armoured suitable for rated voltage at 1100 volts grade and conforming to IS : 7098 Part-1- 1988 with amendment number 1 and 2 and 3 Reaffirmed 2005						
036	036	4700.00	Metre	110.00	517000.00	AT Par	517000.00
	Description:- Trenching and laying of cable under ground by soil cutting through suitable dia HDPE pipe including refilling of trench by excavated soil and make good of surface as its original condition.						
037	037	1500.00	Metre	119.00	178500.00	AT Par	178500.00
	Description:- Trenching and laying of cable under pucca floor by concrete cutting including make good of floor surface as its original condition						
038	038	200.00	Metre	314.00	62800.00	AT Par	62800.00
	Description:- Trenching and laying of cable under road / track crossing through 75 mm dia GI pipe (medium gauge) incl. make good of road surface / track						
039	039	200.00	Metre	1429.00	285800.00	AT Par	285800.00
	Description:- Laying of cable underground through 75 mm dia HDPE pipe by Micro tunneling cable laying method including supply and jointing of HDPE pipe.						
040	040	200.00	Metre	1353.00	270600.00	AT Par	270600.00
	Description:- Laying of cable underground through 100 mm dia HDPE pipe by Micro tunneling cable laying method including supply and jointing of HDPE pipe.						
041	041	600.00	Metre	41.00	24600.00	AT Par	24600.00
	Description:- Drawing of cable on wall / structure with suitable size and shape GI clamps and commissioning of cable						
042	042	8.00	Each	6201.00	49608.00	AT Par	49608.00
	Description:- SPN MCB DB (Metal Enclosure), 1Ph, 50Hz, 240V, 6 way complete with 4 nos. SP MCB of current rating from 6A to 32A, 10 KA, 240 Volt, 50 Hz as per requirement of load and one no. DP RCBO of current rating 40A, 100mA, 10 kA, 230V, 50Hz						
043	043	8.00	Each	131.00	1048.00	AT Par	1048.00
	Description:- Fixing, connection and commissioning of above SPN MCB DB with suitable arrangement						
044	044	2.00	Each	11759.00	23518.00	AT Par	23518.00
	Description:- TPN DB (Metal Box) 1Ph, 50Hz, 240V, 4 way per phase, 415V, 50Hz, complete with four nos. SP MCB of current rating from 6A to 32A, 10 KA, 240 Volt, 50 Hz per phase as per requirement of load and one no. FP RCBO 63A, 100mA, 10 kA, 230V, 50Hz						
045	045	2.00	Each	166.00	332.00	AT Par	332.00
	Description:- Fixing, connection and commissioning of above TPN MCB DB with suitable arrangement						

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046	046	8.00	Each	3195.00	25560.00	AT Par	25560.00
	Description:- Sheet Moulded Compound (SMC) JB box, fire retardant of size 450 x 375 x 200 mm (IP-55) including fitment with suitable size and shape Mild Steel (MS) bracket by replacing existing damage box and accessories with testing and commissioning.						
047	047	2.00	Each	1432.00	2864.00	AT Par	2864.00
	Description:- Sheet Moulded Compound (SMC) JB box, fire retardant of size 295 x 195 x 100 mm (IP-55) including fitment with suitable size and shape Mild Steel (MS) bracket by replacing existing damage box and accessories with testing and commissioning.						
048	048	100.00	Metre	1999.00	199900.00	AT Par	199900.00
	Description:- Cable Tray wiremesh type Hot-Dip Galvanized of size 105 mm x 400 mm, wire dia from 3.9 mm to 5.9 mm, tray configuration with 50 mm / 100 mm mesh, coupler for joining two cable trays, wall mounting supports @ every 1.5 Metre, safe working load 120 Kg per metre, accessories for T's and bends or other purpose and cutter, fire resistant properties, and all other accessories in accordance with the standard IEC 61537 complete with installation and commissioning						
049	048	2.00	Each	29237.00	58474.00	AT Par	58474.00
	Description:- Water cooler cum purifier RO+UV Floor Mounted, in built stainless steel tank storage capacity 80 litre, cooling capacity 40 litre per hour, suitable for 1 Ph, 230V, 50 Hz						
050	050	1.00	Each	45711.00	45711.00	AT Par	45711.00
	Description:- Submersible Pump Motor set in multistage construction of maximum discharge 2000 GPH at 55M head with AC induction motor of suitable capacity for operation on 3 Phase, 415V, 50Hz, AC supply system complete with all accessories such as suitable length of 3 core flat PVC insulated flexible copper conductor cable of size 2.5 sq.mm, 1100V grade (motor to starter panel), one flow meter, one delivery sluice valve one Non-Return Valve, one pressure gauge and all other accessories.						
051	051	1.00	Each	3036.00	3036.00	AT Par	3036.00
	Description:- Installation, testing and commissioning of Submersible Pump-Motor set (2000 GPH) and column pipe, supporting clamps and other accessories						
052	052	1.00	Each	4373.00	4373.00	AT Par	4373.00
	Description:- Submersible Pump Controller in sheet enclosure incorporated with DOL Starter suitable for 4.5 KW / 6 HP, 3Ph, 415V, 50Hz for 2000 GPH (Similar to L&T Type - MU-G6 DOL starter, Cat. No.- SS97756)						
053	053	1.00	Each	219.00	219.00	AT Par	219.00
	Description:- Fixing, connection, testing and commissioning of above Submersible Pump Controller						
054	054	40.00	Metre	237.00	9480.00	AT Par	9480.00
	Description:- Heavy gauge GI pipe of dia 50mm with one end socket as per IS:1239 (Part I) of 1990 or latest.						
055	055	200.00	Square Foot	2613.00	522600.00	AT Par	522600.00
	Description:- Design, manufacture, display of wall / hanging / floor mounting type LED illuminated sign / direction boards in half elliptical shape.The display sheet shall be of unbreakable 040 translucent polycarbonate sheet of 2 mm thickness.The text / graphics matter visibility shall not be less than 160 deg. The approved colour text and graphics shall be printed / router cut on monomeric calendared vinyl of 70 um thickness and shall be firmly pasted on display sheets.The mounting arrangement shall be hanging, wall mounting, ceiling mounting, pole mounting or floor mounting and as per site requirement. The signage shall have the integral mounting arrangements with sturdy structural frame and ACP cladding on the back side of the signage to avoid rusting and entry of dust.The LED board shall ave uniform illumination with 4-8 W / sq. ft and with brightness more than ambient light. Suitable size end cap of 1.5 mm thick SS 304 should be provided.						
056	056	200.00	Square Foot	262.00	52400.00	AT Par	52400.00
	Description:- Erection and installation of wall /hanging / floor mounting type LED illuminated sign / direction boards in half elliptical shape. The display sheet shall be of unbreakable 040 translucent polycarbonate sheet of 2 mm thickness. The text / graphics matter visibility shall not be less than 160 deg. The approved colour text and graphics shall be printed / router cut on monomeric calendared vinyl of 70 um thickness and shall be firmly pasted on display sheets. The mounting arrangement shall be hanging, wall mounting, ceiling mounting, pole mounting or floor mounting and as per site requirement. The signage shall have the integral mounting arrangements with sturdy structural frame and ACP cladding on the back side of the signage to avoid rusting and entry of dust. The LED board shall have uniform illumination with 4-8 W / sq. ft and with brightness more than ambient light. Suitable size end cap of 1.5 mm thick SS 304 should be provided						
	057	75.00	Square Foot	881.00	66075.00	AT Par	66075.00

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057	<p>Description:- Self- illuminated LED display of different size and width system with all necessary accessories : 1) Aluminium panel - 3mm Pvdf coated aluminium composite panel.(Make-Alstone/Aludecor/Alstom/ Timexbond) Designed artwork by ER shall be on router cut 3D alphabets of 2" depth to be flushed with the ACP sheet. 2) 1" X 1" 18g MS square pipe structure with red oxide and white enamel paint, ISI marked. 3) Imported translucent Acrylic sheet for making alphabets : a) Physical form - Sheets b) Thickness range - 3mm (+/-) 0.5mm c) Colour - White mild translucent d) Outdoor Stability - UV Stabilised e) Output - Excellent to cast Vinyl and self display f) Make - acast / Mitsubishi / sumiplex 4) 26g Galvanised iron sheet / 3mm acp for back panel. (Make - Tata / Jindal / Bansal) 5) Light Emit- ting Diodes (LED) sign modules - (Make of LED chip - NICHIA/ CRE / OSRAM/ SEOL/ PHILIPS/ LUMILEDS/ AVAGO) a) Power consumption - 1 W each module b) Operating Temperature - (-) 40 deg to 60 deg C c) Viewing Angle - 150 degree d) Input Voltage - 12V DC e) Protection Class inbuilt - IP 66 or higher f) Standards - UL94HB g) Certifications - UL. CE. C tick. ROHS h) Housing material of the module - PC & ROHS compliant i) Colour - White / Red / Warm white 6) Power Drivers -(Make-Union / Meanwell or similar) a) Protection Class - IP 65 b)Rated Supply Voltage - 108V - 305V AC c) Fre- quency - 50/60 Hz d) Power Factor - greater than 0.9 e) Driver Output current - .8A to 25 Ampere f) Operating Temperature - (-) 40 deg to 60 deg C g) Output Voltage Tolerance -10% including installation and commissioning</p>						
058	058	2.00	Each	8169.00	16338.00	AT Par	16338.00
	<p>Description:- Change Over Switch 63A, 4 pole, 415V in sheet steel enclosure including fixing, testing and commissioning</p>						
059	059	8.00	Each	8799.00	70392.00	AT Par	70392.00
	<p>Description:- Supply of Dust and vermin proof metal Busbar Cham- -ber consisting of 4 nos. 6 way copper busbar of each bar capacity 63 Amps., suitable for 415V, 50 Hz supply system with sufficient space for cable termi- -nation.</p>						
060	060	10.00	Each	3005.00	30050.00	AT Par	30050.00
	<p>Description:- Earthing by two nos. 50mm dia GI pipe x 3M long heavy gauge (Make- Tata / Jindal) including cons- truction of one earth pit along with necessary earth connection from pit by 25 mm x 4 mm GI flat with GI nuts & bolts</p>						
061	061	2.00	Each	128000.00	256000.00	AT Par	256000.00
	<p>Description:- VRF Outdoor Unit of capacity 6 HP, having Side one board of size 6" x 8" x 3" with cover plate and discharge cooling with Protective coated conden- ser Coil and COP more then 3.7, voltage fluctua- tion 340-460V suitable for operation with 410A or equivalent Eco-fridently refrigerant.</p>						
062	062	2.00	Each	42150.00	84300.00	AT Par	84300.00
	<p>Description:- Ceiling suspended high Static Duct, variable refrigerant flow modular type with drain pump, Capacity 4.5 TR (IDU).(For Item no 61 above)</p>						
063	063	2.00	Each	2500.00	5000.00	AT Par	5000.00
	<p>Description:- Supplying of Cordless Remote Controller (For Item no 61 above)</p>						
064	064	2.00	Each	12000.00	24000.00	AT Par	24000.00
	<p>Description:- Installation, testing and commissioning of the ducted units with R410A refrigerant charging, Lifting, shifting, controls, electricals, necessary accessories of minimum required capacity. (6 HP/ 4.5 TR).</p>						
065	065	30.00	Metre	645.00	19350.00	AT Par	19350.00
	<p>Description:- Copper refrigerant pipes with required sizes including all fittings e.g sockets, elbows duly insulated with 19mm/13mm close cell elastomeric nitrile rubber insulation between each set of out door and indoor units including installation, testing and commissioning 3/4" OD (insulation 19mm thick)</p>						
066	066	30.00	Metre	645.00	19350.00	AT Par	19350.00
	<p>Description:- Copper refrigerant pipes with required sizes including all fittings e.g sockets, elbows duly insulated with 19mm/13mm close cell elastomeric nitrile rubber insulation between each set of out door and indoor units including installation, testing and commissioning 3/8" OD (insulation 13mm thick)</p>						
067	067	20.00	Metre	125.00	2500.00	AT Par	2500.00
	<p>Description:- PVC pipe medium class (For drainage of water from IDU) with 6 mm thick Nitrile Rubber insulation. 32 mm including installation, testing and commissioning</p>						
068	068	30.00	Metre	345.00	10350.00	AT Par	10350.00
	<p>Description:- PVC pipe medium class (For drainage of water from IDU) with 6 mm thick Nitrile Rubber insulation. 32 mm including installation, testing and commi- ssoning with fasteners including erection, testing & commissioning for 4 Sq.mm</p>						
069	069	30.00	Metre	160.00	4800.00	AT Par	4800.00
	<p>Description:- PVC pipe medium class (For drainage of water from IDU) with 6 mm thick Nitrile Rubber insulation. 32 mm including installation, testing and commi- ssoning with fasteners including erection, testing & com- missioning for 2 C x 1.5 Sq.mm.</p>						
070	070	30.00	Metre	230.00	6900.00	AT Par	6900.00
070							

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			Description:- PVC pipe medium class (For drainage of water from IDU) with 6 mm thick Nitrile Rubber insulation. 32 mm including installation, testing and commissioning with fasteners including erection, testing & commissioning for 2 C x 0.75 Sq.mm.				
071	071	24.00	Sqm	1285.00	30840.00	AT Par	30840.00
			Description:- Fabricated GI ducting complete with gasket, supporting arrangement, hanger, nut, bolt etc. including Installation for 22 G				
072	072	90.00	Sqm	1250.00	112500.00	AT Par	112500.00
			Description:- Fabricated GI ducting complete with gasket, supporting arrangement, hanger, nut, bolt etc. including Installation for 24 G				
073	073	110.00	Sqm	950.00	104500.00	AT Par	104500.00
			Description:- Duct thermal insulation with 9 mm thick aluminium foil faced Nitrile Rubber pasted with adhesive incl. installation, testing and commissioning				
074	074	30.00	Sqm	1050.00	31500.00	AT Par	31500.00
			Description:- Duct acoustic lining with 12mm thick rigid board wrapped with RP tissue paper and finally 26G Aluminium perforated sheet including installation, testing and commissioning				
075	075	3.00	Sqm	10500.00	31500.00	AT Par	31500.00
			Description:- Extruded Aluminium powder coated supply & return Air Grill / diffusers with GI Coller damper including installation, testing and commissioning				
076	076	2.00	Sqm	6200.00	12400.00	AT Par	12400.00
			Description:- GI Duct damper made of 18 SWG GI Sheet incl. installation, testing and commissioning				
077	077	2.00	Sqm	9300.00	18600.00	AT Par	18600.00
			Description:- Fuseable link fire damper including installation, testing and commissioning				
078	078	2.00	Each	1000.00	2000.00	AT Par	2000.00
			Description:- Canvas Connection at machine mouth.including installation, testing and commissioning				
079	079	2.00	Each	3500.00	7000.00	AT Par	7000.00
			Description:- Back draft damper including installation and testing				
080	080	1.00	Each	14000.00	14000.00	AT Par	14000.00
			Description:- Sequential timer box for ductable units, consists with supply and fixing of 3 phase timer suitable to above mentioned AC Machine alongwith Double door TPN DB with 1 no 32A TP MCB as incomer & 1no. 32A TP Power contractor with 2 No. + 2 NC auxiliary contract, 1no. 24 Hrs digital timer switch, 2 way auto manual bypass selection switch and 2 no. indicating lamp with 1 no. 6A SP MCB for control circuit including necessary inter connection and earthing attachment for 3 phase AC machine (For AC machines) .				
081	081	1.00	Each	20000.00	20000.00	AT Par	20000.00
			Description:- Minor Civil works like wall cutting, carpentry work such as enclosure for system components, PCC/RCC slab for outdoor units etc.here each means job				
082	082	35.00	Sqm	1800.00	63000.00	AT Par	63000.00
			Description:- PVC False ceiling work for IDU and Plenum chamber				
083	083	20.00	KWp	38753.00	775060.00	AT Par	775060.00
			Description:- Design and supply of On-Grid connected Solar Photo Voltaic (PV) Plant without battery back-up complete with the following items : (a) Mono / Poly Crystalline Silicon Solar Cell connected in series (PV Module), (b) Solar Grid Connected String Inverter along with Data Logger, with provision for data transferring (RS-485, Wifi, GPRS, RF) to remote service platform for data storage and analysis displayed in various visual and graphical formats on Web-App & big screen display (c) Aluminium Solar PV Module Mounting Structure, (d) Array Junction Box, (e) Inverter Interfacing Panels (AC Distribution Board, Grid Interfacing Panel), (f) Fire resistant DC Cables and Fire resistant AC cables of suitable size (in sq.mm) and length including dressing / laying of cable through suitable size GI covered cable tray / through HDPE Pipe / underground by Microtunneling method / through GI pipe as per site requirement for interconnecting panels, array Junction box and solar inverter system, ACDB, GIP etc. including all other accessories such as monkey ladder for maintenance access to roof / shed, lightning arrester, suitable earthing arrangement along with installation, testing and commissioning of above Solar Photo Voltaic Modules on roof top of building / Shed top of Station Platform / Coaching Yard / Workshop with all associated works.				
084	084	1.00	Lumpsum	1291254.12	1291254.12	AT Par	1291254.12
			Description:- GST as Applicable on all the items above @ 18%				

3. ITEM BREAKUP

No item break up added

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4. ELIGIBILITY CONDITIONS

Standard Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The tenderer must have minimum average annual contractual turnover of V/N or 'V' whichever is less where V= Advertised value of the tender in crores of Rupees, N= Number of years prescribed for completion of work for which bids have been invited. The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover. The tenderers shall submit requisite information as per Annexure-VIB, along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by Audited Balance Sheet.(Please attach scanned copy of Annexure VIB duly filled up).	No	No	Allowed (Mandatory)

Submission of Document Verification Certificate

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Please submit a certificate in the prescribed format (please download the format from the link given below) for verification / confirmation of the documents submitted for compliance of eligibility / qualifying criteria. Non submission of the certificate, or submission of certificate either not properly filled in, or in a format other than the prescribed format shall lead to summary rejection of your offer. (Click here to download the Format of Self Certificatio	No	No	Allowed (Mandatory)

Standard Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The tenderer must have successfully completed any of the following during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: Three similar works costing not less than the amount equal to 30% of advertised value of the tender, or Two similar works costing not less than the amount equal to 40% of advertised value of the tender, or One similar work costing not less than the amount equal to 60% of advertised value of the tender..(In case of Approved RDSOs source the above criteria are not essential as per DEE(RS)Railway Board letter No.94/Elect(TRS)/441/1 pt.III,New delhi,dated :12.06.13.)	No	No	Allowed (Mandatory)
1.1	Defination of Similar Work :- (i) supply ,erection, testing, and commissioning of electrical wiring in residential quarters /Railway stations/service building /High bay sheds etc. OR (ii) Supply,erection,testing and commissioning of tubular poles /Octagonal poles and Luminaries including erection of rail poles in streets /yards,washing lines & circulating area with or without timer.	No	No	Not Allowed

5. COMPLIANCE

Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Please enter the percentage of local content in the material being offered. Please enter 0 for fully imported items, and 100 for fully indigenous items. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in the tender conditions.	No	Yes	Allowed (Optional)
2	Scanned copy of valid Trade license or Propitorship Certificate.	Yes	Yes	Allowed (Optional)
3	List of the Works completed in the last three financial years giving description of work. Organization for whom executed, approximate value of contract at the time of award, date of award and date of scheduled completion of work. Date of actual start, actual completion and date of payment and final value of contract should also be given. (Supportive documents/ certificates from the organization with whom worked/are working should be enclosed) (Please attach scanned copy of Annexure-I duly filled up).	No	Yes	Allowed (Mandatory)

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4	List of works in hand indicating Supportive documents/certificates from the organization with whom worked/are working should be enclosed) description of work, contract value, approximate value of balance work yet to be done and date of award. (Supportive documents/certificates from the organization with whom worked/are working should be enclosed).(Please attach scanned copy of Annexure-IV duly filled up)	No	Yes	Allowed (Mandatory)
5	Partnership deeds, power of Attorney etc. (if any) : The tender shall clearly specify whether the tender is submitted on his own or on behalf of a partnership concern. If the tender is submitted on behalf of partnership concern he should submit the certified copy of the partnership deed alongwith the tender authorisation to sign the documents on behalf of the partnership firm. If these documents are not enclosed alongwith the tender document, the tender will be treated as hearing lease submitted by the individual signing the tender documents. The Railway will not consider any power of Attorney granted by the tender or any changes in the composition of the firm made subsequent to the execution of the contract. It may however recognize such power of Attorney and change after obtaining proper legal advice, the cost of which will be chargeable to the contract.(Scanned copy to be uploaded).	Yes	Yes	Allowed (Mandatory)
6	Railway Officers Associated with tenderer:RAILWAY OFFICERS ASSOCIATED WITH TENDERER 1. ExRailway Officer as tenderer: Should tenderer be a retired Gazetted Officer working before his retirement on any of the Railways owned and administered by the President of India, or should the tenderer being partnership firm have as one of its partners a retired Gazetted Officer as aforesaid, or should the tenderer being an incorporated company have any such retired Officer as one of its Directors, or should the tenderer have in his employment any retired Gazetted Officer as aforesaid, full information of such person shall be submitted along with his tender in the format given in annexure-V to this chapter of this tender document. (Authority: ACS No.3 to GCC July,2014vide Boards letter No.2014/CEI/CT/O/9/RET dt.22.01.2015) (please attach scanned copy of Annexure-v duly filled up by the firm).	No	Yes	Allowed (Mandatory)
7	Option for receiving payment through Letter of Credit . (Please attach scannedcopy of ANNEXURE 1 LC & ANNEXURE 2 LC duly filled up by the firm if optedfor)	No	Yes	Allowed (Optional)
8	Please submit a certificate in the prescribed format for verification / confirmation of the documents submitted for compliance of eligibility / qualifying criteria. Non submission of the certificate, or submission of certificate either not properly filled in, or in a format other than the prescribed format shall lead to summarily rejection of your offer.(Circular and format related with document verification certificate is attached in document section)	Yes	Yes	Allowed (Mandatory)
9	The following documents should be attached with the tender: (i)Scanned copy of Pan Card. (ii)Scanned Copy of EFTMANDATE FORM (Annexure -VIII).Duly filled up by the bidder(iii)Tender Document (duly digitallysigned by the bidder)	No	Yes	Allowed (Optional)
10	Scanned copy of valid GST (Goods & Service Tax)Registration Certificate.	Yes	Yes	Allowed (Mandatory)

General Instructions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Submission of Documents in support of Eligibility Criteria : All documents in support of fulfillment of eligibility criteria with respect to completion of 'Similar Nature of work for technical Eligibility criteria 'and 'Total Contract value for Financial Eligibility Criteria' should be uploaded online in the website with scanned copy at the time of tender bidding with the details. No post - tender communication , in any form will be made or entertained , after opening of tenders in this regard .Railways may however call for the originals of the credentials for verification or any clarifications/Confirmations on the contents of the documents submitted .Eligibility of tenderers shall be decided solely on the basis of the documents submitted alongwith the tender offers and any subsequent document whatsoever submitted in this connection would not be given any cognizance on any account.	No	No	Not Allowed

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2	The Contractor/(firm) must go through the entire tender document along with all attachment for any kind of guidance regarding execution of the job & payment there after. In case any thing is left out or not clear then they should consult the General Condition of Contract & standard Specification as attached (uploaded).The bidders are also advised to preserve a copy of entire tender document/ (Set) for their convenience.	No	No	Not Allowed
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Technical-Compliances

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Valid Electrical Contractor licence in the name of the firm issued by State / Central Government. Failing to upload this document will lead to summarily rejection of offer.	Yes	Yes	Allowed (Mandatory)

6. Documents attached with tender

S.No.	Document Name	Document Description
1	GCC_April-2022.pdf	GCC 2022
2	CorrectionslipofGCC-2022.pdf	Correction Slip
3	Tenderformandannexures.pdf	Tender forms and Annexures
4	Documentsverificationcertificate.pdf	Verification Certificate
5	LTHTstandardspecification.pdf	Specification
6	Annexure-VIBofGCC.pdf	Annexure VIB
7	AddedCondition.pdf	Spl Terms Conditions
8	SignageSpecification.pdf	signage specification

This tender complies with Public Procurement Policy (Make in India) Order 2017, dated 15/06/2017, issued by Department of Industrial Promotion and Policy, Ministry of Commerce, circulated vide Railway Board letter no. 2015/RS(G)/779/5 dated 03/08/2017 and 27/12/2017 and amendments/ revisions thereof.

As a Tender Inviting Authority, the undersigned has ensured that the issue of this tender does not violate provisions of GFR regarding procurement through GeM.

Signed By: ABHIJIT DAS

Designation : Sr.DEE/GSU/TRD/P/HWH