

**CHENNAI DIVISION-ELECTRICAL/SOUTHERN RLY  
TENDER DOCUMENT**

**Tender No:** ME29II10073B

**Closing Date/Time:** 28/12/2022 15:00

**Sr. DEE/G/MAS** acting for and on behalf of The President of India invites E-Tenders against Tender No **ME29II10073B** Closing Date/Time 28/12/2022 15:00 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**

<b>Name of Work</b>	Chennai Division-Electrical arrangements for provision of Platform Shelters at Pattabiram, Puliamangalam, Sevvapet Road, Korattur, Pattaravakkam, Thirumullaivoyal, Annanur, Hindu college, Nemilichery and Thiruninravur stations.		
<b>Bidding type</b>	Normal Tender		
<b>Tender Type</b>	Open	<b>Bidding System</b>	Single Packet System
<b>Tender Closing Date Time</b>	28/12/2022 15:00	<b>Date Time Of Uploading Tender</b>	07/12/2022 10:10
<b>Pre-Bid Conference Required</b>	No	<b>Pre-Bid Conference Date Time</b>	Not Applicable
<b>Advertised Value</b>	1633652.00	<b>Tendering Section</b>	WORKS
<b>Bidding Style</b>	Single Rate for Each Schedule Item	<b>Bidding Unit</b>	
<b>Earnest Money (Rs.)</b>	32700.00	<b>Validity of Offer ( Days)</b>	63
<b>Tender Doc. Cost (Rs.)</b>	0.00	<b>Period of Completion</b>	180 Days
<b>Contract Type</b>	Works	<b>Contract Category</b>	Expenditure
<b>Bidding Start Date</b>	14/12/2022	<b>Are Joint Venture (JV) firms allowed to bid</b>	No
<b>Ranking Order For Bids</b>	Lowest to Highest	<b>Expenditure Type</b>	Capital (Works)

**2. SCHEDULE**

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> 01-ELECTRIFICATION WORKS (NOTE:-(1) THE UNIT RATE TO BE QUOTED SHOULD BE INCLUSIVE OF ALL TAXES AND GST APPLICABLE FROM TIME TO TIME. (2) GST RULES WILL APPLY FOR THE E-TENDER. (3) THE SUPPLY OF GOODS AND SERVICE WOULD BE SUBJECT TO GST ACT AND RULES APPLICABLE FROM TO TIME. (4) For materials of purchase value Rs.5 lakhs and above, inspection shall be done by third party i.e. M/s. RITES and all expenditure in connection with the inspection shall be borne by the tenderer/Contractor (5) For ISI marked products, if the order is placed on ISI certified manufacturers, the materials can be accepted on firm's WTC.6) Please refer to clause number 9 in General instructions to tenderers attached in Documents Section regarding Site Engineer condition 7) For Tenders costing more than 50 lakhs Certificate as per Annexure V is to be given by each member of JV or Partners of Partnership firm/LLP/etc								1633652.00
01	01	60.00	cum	131.00	7860.00	AT Par	7860.00	Above/ Below/Par
	<b>Description:-</b> Excavation of Cable trench in all kinds of soils duly removing all obstructions in the way of cable trench, dumping at embankment site within railway land complete as per specification enclosed and in a manner as directed by the Section Engineer in charge at site. NOTE: The Section Engineer, in charge at site, will indicate the route of cable trench.							
02	02	60.00	cum	29.00	1740.00	AT Par	1740.00	Above/ Below/Par
	<b>Description:-</b> Re-filling of trench with excavated earth, ramming, consolidation and bringing back the surface to original condition complete in a manner as directed by the Section Engineer in charge at site.							
03	03	130.00	cum	412.00	53560.00	AT Par	53560.00	Above/ Below/Par
	<b>Description:-</b> Demolishing plain cement concrete in platform or elsewhere, disposal of material within railway land complete in a manner as directed by the Section Engineer in charge at site.							
04	04	130.00	cum	4190.00	544700.00	AT Par	544700.00	Above/ Below/Par
	<b>Description:-</b> Supply and provision of mass concrete for platforms or elsewhere with 1:2:4 ratio using 20mm blue metal complete in a manner as directed by the Section Engineer in charge at site. NOTE:-Cement shall be Ordinary Portland Cement, 43 grade, conforming to IS: 456 or latest.							
	05	1000.00	Metre	78.00	78000.00	AT Par	78000.00	Above/ Below/Par

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05	<b>Description:-</b> Supply of 4core 16 sq. mm ISI Marked cross linked polyethelene [XLPE] insulated, PVC outer sheathed, armoured with galvanized round steel wire or steel strip cable with aluminium conductor suitable for rated voltage of 1100 volts grade and conforming to IS:7098(pt-1)/1988 with amendment number 1,2,3(reaffirmed 2005) and Laying/leading of the same in the excavated trench, threading through pipe, clamping on walls terminating in as many ends using suitable single compression cable glands and sockets complete in a manner as directed by Section Engineer in charge at site. Note: Cable shall be supplied by the OEM or their authorized dealers duly producing dealership certificate. Cable shall be tested by CPRI, ERDA, NABL or any other laboratories recognized by Government of India and test certificates shall be produced by the supplier ".							
	06	1070.00	Metre	62.00	66340.00	AT Par	66340.00	Above/ Below/Par
06	<b>Description:-</b> Supply and Laying of 50mmdia ISI Marked High Density Polyethylene pipes of material grade PE 63 and with Pressure rating of 6.0P.N conforming to IS: 4984 /1995 or latest in the excavated trench, clamping on walls / Steel members of platform shelter or elsewhere using suitable fixing arrangement complete in a manner as directed by Section Engineer-incharge at site.							
	07	10.00	Numbers	2568.00	25680.00	AT Par	25680.00	Above/ Below/Par
07	<b>Description:-</b> Supply of 32A,DP,AC 23A duty,sheet steel enclosed Switch Dis-connector Fuse Units conforming to IS:13947/P1 & P3/1993 or latest with low watt loss HRC fuse links conforming to IS:13703/1993 or latest and providing the same onto wall, existing MDB or elsewhere using suitable mounting arrangement in a manner as directed by Section Engineer in charge at site.							
	08	15.00	Numbers	8729.00	130935.00	AT Par	130935.00	Above/ Below/Par
08	<b>Description:-</b> Supply of LT earthing arrangements using 3 metre long, 48 to 50mm dia, 2.9mm to 3.2mm wall thickness, copper plated (not less than 250 micron), ISI marked branded MS pipe, terminal hole dia 12mm, pipe inner space filled with high conductive material including 2 bags (25kg to a bag) of earth life compound as per IS 3043 or latest and provision of the same duly by excavating/ auguring of earth pit in all kinds of soil/concrete surface or elsewhere, construction of masonry earth pit enclosure, provision of cover etc., complete including supply / leading / laying / burying and concealing of 4 SWG GI wire from earth electrode to proposed MDB / SDB or elsewhere in a manner as directed by Section Engineer in charge at site. Note: Masonry earth pit enclosure and cover shall be as per drawing number EL/P/TYPE-1022.							
	09	520.00	Metre	21.00	10920.00	AT Par	10920.00	Above/ Below/Par
09	<b>Description:-</b> Supply and concealing (or fixing at specified locations as decided by SSE/JE in-charge at site) of 20mm dia rigid PVC conduits [IVORY colour] confirming to IS: 9537/P3/1983 or latest [ISI Marked] with wall thickness not less than 2.0 mm along with all accessories and including cutting/ chipping the wall/ceiling or elsewhere and making good the same /clamped at regular intervals, not exceeding 500 mm in a manner as directed by Section Engineer in charge at site and as per specification for wiring/ rewiring enclosed. [Approximate length of PVC conduit]							
	10	1880.00	Metre	11.00	20680.00	AT Par	20680.00	Above/ Below/Par
10	<b>Description:-</b> Supply and drawing of earth wire by using 1.5 sq.mm Fire Retardant PVC insulated [green colour] unsheathed single copper conductor cables of 1100 V grade conforming to IS: 694/1990 or latest duly along the wires or elsewhere from MCB DB to switch boards and switch boards to lights and fan points vide item No. 11 below complete in a manner as directed by Section Engineer in charge at site.							
	11	60.00	Point	227.00	13620.00	AT Par	13620.00	Above/ Below/Par
11	<b>Description:-</b> Wiring to light, fan, exhaust fan points [Medium point i.e. length between 3 to 6 mtr] by supply and drawing of 2 runs of 1.5 sq. mm Fire Retardant Low Smoke PVC insulated copper multistranded copper cables of 1100 V grade [conforming to IS: 694/1990 or latest] duly inside the PVC conduit concealed/laid vide item No. 09 above complete with provision of 1 No. 3 plate ceiling rose conforming to IS: 371/1999 or latest and with all standard accessories and in a manner as directed by Section Engineer in charge at site.							
	12	14.00	Numbers	2261.00	31654.00	AT Par	31654.00	Above/ Below/Par
12	<b>Description:-</b> Supply of 1200mm sweep BLDC type ceiling fan of energy efficiency type, BEE 5 star rated, suitable for operation on 50Hz, single phase AC supply, conforming to IS: 374/1979 or latest, as per the specification enclosed and fixing of the same onto the ceiling or elsewhere including supply connection from ceiling rose by using 3 core 1.0 sq. mm Fire retardant Low smoke PVC insulated, PVC round sheathed copper [White/Ivory colour] conductor flexible pendant chord in a manner as directed by Section Engineer in charge at site.							
	13	18.00	Numbers	775.00	13950.00	AT Par	13950.00	Above/ Below/Par

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13	<b>Description:-</b> Supply of terminal/loop in-loop out box of size 280x170x130mm and made of SMC [similar to Sintex Catalogue Reference No.GS-JB-2817] and comprising of 1 No.4 way 32A strip connector block,1 No Neutral link,1 No Earth link and 2 Nos of re-wireable type porcelain fuse bases and fuse carriers having a current rating of 16A and voltage not exceeding 650V between lines and conforming to IS:2086/1993 or latest duly pre-wired and provision of the same onto lamp post or elsewhere using suitable fixing arrangement in a manner as directed by Section Engineer in charge at site.						
14	14	20.00	Numbers	408.00	8160.00	AT Par	Above/ Below/Par
14	<b>Description:-</b> Supply and provision of MS brackets, fabricated as per sketch enclosed, for supporting OH wire beneath platform shelters, mounted with 4 Nos. of porcelain vertical reel / shackle insulators and earth stud / bolt, finished with 2 coats of red primer and 1 coat of aluminium paint and complete with fixing arrangements complete as per drawing enclosed in a manner as directed by Section-Engineer in-charge at site.						
15	15	315.00	Metre	159.00	50085.00	AT Par	Above/ Below/Par
15	<b>Description:-</b> Supply and stringing of over head mains beneath platform shelters using 5 runs of 16 sq. mm PVC insulated and PVC sheathed multi stranded aluminium conductor cable duly by binding onto insulators of brackets provided vide item No. 14 above complete in a manner as directed by Section Engineer in charge at Site. Note: 5 runs of cable are taken as 1m for unit purpose.						
16	16	36.00	Numbers	474.00	17064.00	AT Par	Above/ Below/Par
16	<b>Description:-</b> Supply of 4 feet 18 - 20w LED light fitting suitable to work on 240V single phase 50 Hz AC supply with lamp and all standard accessories suitable as per the specification enclosed and provision of the same using suitable mounting arrangement including supply connection from ceiling rose by using 3 core 1.0 sq. mm Fire Retardant Low Smoke PVC insulated, PVC round sheathed copper [White/Ivory colour] conductor flexible pendant chord in a manner as directed by Section Engineer in charge at site.						
17	17	38.00	Numbers	507.00	19266.00	AT Par	Above/ Below/Par
17	<b>Description:-</b> Supply of terminal /loop in-loop out box of size 185x165x60mm and made of SMC[similar to Sintex Catalogue Reference No.GS-JB-1816] and comprising of 1 No.4 way 15 A per way strip connector block,1 No.Neutral link,1 No Earth link ,1 No 3 plate ceiling rose ,1 No of 16A cutout etc duly pre-wired up to ceiling rose and provision of same close to light fitting on to the ceiling of inspection shed or elsewhere including wiring from junction box to light fitting by using 3 core 1.0 sq.mm multi stranded PVC insulated copper conductor duly inside flexible PVC conduit in a manner as directed by Section Engineer in charge at site. Note:-1)Ceiling rose shall be fixed in the top cover of the junction box.						
18	18	950.00	Metre	33.00	31350.00	AT Par	Above/ Below/Par
18	<b>Description:-</b> Supply and drawing of earth wire by using 3 runs of 1.5 sq.mm Fire Retardant PVC insulated [green colour] unsheathed single copper conductor cables of 1100 V grade conforming to IS: 694/1990 or latest duly along the wires from MCB DB to switch boards and switch boards to lights and fan points or elsewhere vide item No. 11 above complete in a manner as directed by Section Engineer in charge at site.						
19	19	18.00	Numbers	6900.00	124200.00	AT Par	Above/ Below/Par
19	<b>Description:-</b> Supply of 24 inch [600-mm] sweep, wall mounting type, air circulators with oscillations conforming to IS: 2997 or [latest] complete as per specification enclosed and provision of the same onto wall / stanchion / rail post or elsewhere using suitable using suitable clamping arrangement made of 40mm X 6mm MS flat and MS plate of size of 300mm X 300mm X 6mm complete in a manner as directed by Section Engineer in charge at site.						
20	20	10.00	Numbers	8137.00	81370.00	AT Par	Above/ Below/Par
20	<b>Description:-</b> Supply of time switch assembly comprising of: - i)2 Nos. of timer switch with daily setting ii)2 Nos. of 3 pole 32 A power contactor conforming to IS: 13947/P4/1993 or latest iii)2 Nos. of 40A FP [MCB type] isolator conforming to IS: 13947/P3/1993 or latest, iv)1 No. Neutral link etc. v)1 No. Earth link etc. vi)Suitable rated control fuses all duly prewired and mounted on an appropriate sized wellseasoned wooden plank of thickness not less than 12 mm and duly housed into and powder coat finished enclosure of size not less than 300mm X 450mm X 300mm and made of 2mm thick Sheet Steel complete and provision of the same onto the wall or elsewhere using suitable fixing arrangements in a manner as directed by Section Engineer in charge at site						
21	21	18.00	Numbers	426.00	7668.00	AT Par	Above/ Below/Par
21	<b>Description:-</b> Supply of single phase 20 A P + N + E metal clad plug and socket unit with 20A SP Miniature Circuit Breakers [Instantaneous tripping range-B] conforming to IS: 8828/1996 or latest with rated short circuit capacity of 10kA duly housed in loop in - loop out box made of SMC [similar to Sintex catalogue reference No. GS-JB-2817] and provision of the same onto the wall / stanchion or elsewhere using suitable fixing arrangement complete in a manner as directed by section engineer in charge.						

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22	22	20.00	Numbers	9280.00	185600.00	AT Par	185600.00	Above/ Below/Par
22	<b>Description:-</b> Supply and provision of IP 65 protected Indoor/Protected Outdoor Wall Mounting Thermoplastic Polycarbonate Bus Bar Junction Box with 100 Amps Copper Bus of 25x06 sq.mm for Phases and Neutral, suitable to mount 4C X 16 sq.mm Sq.mm Cable Loop IN Loop out type in a manner as directed by Section-Engineer in-charge at site. The enclosure shall be environmental friendly, recyclable, UV resistant, halogen & silicon free, anti-acid & anti-corrosive. The gasket material shall be Polyurethane and shall be internally embedded. The impact strength of polycarbonate enclosures/boards i.e. the degree of protection against mechanical load 1K 08(5 Joule) in accordance with IEC 62262. The lid closing and opening shall be done by quick fastening spring mechanism latches. For better safety the Polycarbonate enclosure should withstand glow wire test at 9600c in accordance with IEC 60 695-2-11 and it should be flame retardant, self-extinguishing type test certificate in accordance with IEC 60 670-22.							
23	23	125.00	Metre	874.00	109250.00	AT Par	109250.00	Above/ Below/Par
23	<b>Description:-</b> Supply of perforated cable trays of 300mm width x 50mm height made of 2mm thick hot dip galvanized Sheet steel complete with all accessories including coupler plate, supports fabricated MS flats of sufficient thickness and provision of the same duly supported from walls/ceiling/roof purlins/steel members of platform shelter/Foot over Bridge or elsewhere using intermediate supports of MS flats complete including carrying out all civil works incidental to provision/supporting/grouting of cable tray supports complete in a manner as directed by Section Engineer in-charge at site. Note: 1)The cable tray supports shall be applied with two coats of red oxide primer and finished with two coats of bright aluminium paint.							

**3. ITEM BREAKUP**

No item break up added
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**4. ELIGIBILITY CONDITIONS**

**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	1) Tenderer should attach self attested copy of PAN CARD and photo identification in support of their Identity. 2) The documents attached to the tender document should be clear and legible for evaluation of tenders. Proper care to be taken in this regard	No	No	Allowed (Mandatory)
3	A copy of document to be uploaded containing the following details: Name of the tenderer/ contractor, Validity of DSC, Complete address with pincode, Contact No.	No	No	Allowed (Mandatory)
4	Scanned copy of PAN card has to be enclosed	No	No	Allowed (Mandatory)
5	Scanned copy of TIN card has to be enclosed	No	No	Allowed (Mandatory)
6	A copy of NEFT form duly filled in the details as necessary along with a cancelled Cheque to be uploaded. (The tenderer/ contractor not having NEFT form may download the empty NEFT form available in documents site)	No	No	Allowed (Mandatory)

**General Instructions**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	For materials of purchase value Rs.5 lakhs and above, inspection shall be done by third party i.e. M/s. RITES and all expenditure in connection with the inspection shall be borne by the tenderer/Contractor. For ISI marked products, if the order is placed on ISI certified manufacturers, the materials can be accepted on firm's WTC	No	No	Not Allowed

**Technical-Compliances**

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S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	1. Until a formal agreement is prepared and executed, acceptance of this tender shall constitute a binding contract between us subject to modifications, as may be mutually agreed to between us and indicated in the letter of acceptance of my/our offer for this work. 2. I/We also hereby agree to abide by the Indian Railways Standard General Conditions Of Contract, with all correction slips up-to-date and to carry out the work according to the Special Conditions of Contract and Specifications of materials and works as laid down by Railway in the annexed Special Conditions/Specifications, Schedule of Rates with all correction slips up to date for the present contract. 3. I/We have read the various conditions to tender attached hereto and agree to abide by the said conditions. 4.I/We also agree to keep this tender open for acceptance for a period of 63 days from the date of opening of the tender. 5. I/We offer to do the work for DRM/E/G/MAS, at the rates quoted in the attached schedule and hereby bind myself/ourselves to complete the work in all respects within the period of completion stipulated in the tender document, from the date of issue of letter of acceptance of the tender. The amount as stipulated in the tender document is herewith forwarded as Earnest Money. Full value of the earnest Money shall stand forfeited without prejudice to any other right or remedies in case my/our Tender is accepted and if : (a) I/We do not execute the contract documents as stipulated in performance guarantee clause of GCC as detailed in general instructions. (b) I/We do not commence the work within fourteen days after receipt of orders to that effect. 6. I/We hereby Confirm that the rates, rebates and/or other financial terms, if any, quoted by us in the relevant fields of the Financial Bid page will only be the ruling terms for deciding the inter-se ranking, and any such condition having financial repercussions, if quoted by us anywhere else including attached documents shall not be considered for deciding inter-se ranking. 7. However, Railways shall have the right to incorporate any such condition quoted by us, in the contract, at their discretion, if contract is placed on us. 8. I/We have read the various conditions attached/ referred to in this tender document, and agree to abide by the said conditions.	No	No	Allowed (Mandatory)

**6. Documents attached with tender**

S.No.	Document Name	Document Description
1	18wLEDluminairespec.pdf	LED Tubelight specification
2	AdditionalListofDocumentstobeEnclosed.pdf	Additional list of documents
3	AircirculatorSpecification.pdf	Air circulator Specification
4	BLDCCEILINGFANSPECIFICATION.pdf	BLDC FAN SPECIFICATION
5	BreakupDetails.pdf	Breakup Details
6	EarthingType1032.pdf	Earthing arrangement
7	Earthing.pdf	Annexure to Earthing arrangement
8	GCC2022.pdf	IRSGCC APRIL 2022
9	GCCACS.pdf	IRGCC ACS
10	Generalinstructionstotenderers.pdf	General instructions to tenderers
11	Importantinstructionstotenderers.pdf	Important instructions to tenderers
12	LEDspecification-SELSpecPower2-2015.pdf	LED Luminaire Specification
13	MCBDrawing.pdf	MCB Wiring Termination
14	MSBracketsDiagram.pdf	MS Brackets assembly
15	NEFTFORM.pdf	NEFT FORM
16	Specialconditionsofcontract.pdf	Special conditions of contract
17	SpecificationforlayingUndergroundcable.pdf	Specification for laying cable
18	specificationforwiringandrewiring.pdf	Specification for wiring and rewiring
19	Undertaking.pdf	Undertakings

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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:** T.V. DIKSHITULU

**Designation :** Sr.DEE/G/MAS