

VADODARA DIVISION-ELECTRICAL/WESTERN RLY TENDER DOCUMENT

Tender No: BRC-EL-P-22-2495-25-26-R

Closing Date/Time: 13/07/2026 15:00

Sr.DEE/POWER acting for and on behalf of The President of India invites E-Tenders against Tender No **BRC-EL-P-22-2495-25-26-R** Closing Date/Time 13/07/2026 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

Name of Work	Vadodara Division: Electrical works in connection with improvement to allied facilities of various existing Track Machine Sidings over BRC Division.		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Single Packet System
Tender Closing Date Time	13/07/2026 15:00	Date Time Of Uploading Tender	16/06/2026 11:39
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	1224344.00	Tendering Section	ELEC POWER
Bidding Style	Single Rate for Each Schedule	Bidding Unit	
Earnest Money (Rs.)	24500.00	Validity of Offer (Days)	60
Tender Doc. Cost (Rs.)	0.00	Period of Completion	3 Months
Contract Type	Works - General	Contract Category	Expenditure
Bidding Start Date	29/06/2026		
Are JV allowed to bid	No	Number of JV Member Allowed	0
Are Consortium allowed to bid	No	Number of Consortium Member Allowed	0
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- Electrical Works							1167144.00	Above/ Below/Par
1	1	10.00	Numbers	365.00	3650.00	AT Par	3650.00	
	Description:- Wiring of light/fan/exhaust fan points in concealed manner with modular accessories -. The price shall cover for concealed wiring of light/fan/exhaust fan point with 1.5 sq. mm PVC insulated, unsheathed, multi-stranded, FRLS copper conductor of 1100 Volt grade, ISI marked, conforming to IS: 694/1990 with 1.0 sq. mm PVC insulated, unsheathed, multi-stranded, FRLS copper conductor of 1100 Volt grade, ISI marked, conforming to IS: 694/1990 as earthing wire with all accessories in concealed type of wiring in medium grade PVC conduit and accessories of Precision/Modi/Prestoplast/Gerard make. The accessories shall be of modular type of C&S/MK/North West/L&T/Crabtree/Siemens/Anchor/Legrand/Havells/Luminous make.							
2	2	2.00	Numbers	115.00	230.00	AT Par	230.00	
	Description:- Providing plug point 6 Amp in concealed manner in existing board with modular accessories - The price shall cover for providing plug point with modular type universal 5 pin socket and switch, 6 Amp, 230 Volt, AC on existing board. The accessories shall be of modular type of C&S/MK/North West/L&T/Crabtree/Siemens/Anchor/Legrand/Havells/Luminous make.							
3	3	2.00	Numbers	251.00	502.00	AT Par	502.00	
	Description:- Providing plug point 6 Amp in concealed manner on separate board with modular accessories - The price shall cover for providing plug point board with modular type universal five-pin socket and switch, 6 Amp, 230 Volt, AC with modular accessories. The accessories shall be of modular type of C&S/MK/North West/L&T/Crabtree/Siemens/Anchor/Legrand/Havells/Luminous make. The price shall also cover for concealed wiring of board with 1.5 sq. mm, PVC insulated, unsheathed, multi-stranded, FRLS copper conductor of 1100 Volt grade, ISI marked, conforming to IS: 694/1990 with 1.0 sq. mm, PVC insulated, unsheathed, multi-stranded, FRLS copper conductor of 1100 Volt grade, ISI marked, conforming to IS: 694/1990 as earthing wire with all accessories in concealed type of wiring in medium grade PVC conduit and accessories of Precision/Modi/Prestoplast/Gerard make.							
4	4	100.00	Metre	111.00	11100.00	AT Par	11100.00	
	Description:- Concealed wiring of sub-main with 2.5 sq. mm copper wire, single-core in PVC conduit - The price shall cover for concealed wiring of sub main with two-wire single core 2.5 sq. mm PVC insulated, unsheathed, multi-stranded, FRLS copper conductor of 1100 Volt grade, ISI marked, conforming to IS: 694/1990 and one wire of 1.5 sq. mm PVC insulated, unsheathed, multi-stranded, FRLS copper conductor of 1100 Volt grade, ISI marked, conforming to IS: 694/1990 in concealed manner as per site requirement in PVC conduit.							
5	5	2.00	Numbers	4211.00	8422.00	AT Par	8422.00	
	Description:- Providing lighting control board with MCB DP, 32 Amp - 1 No, Time Switch, 16 Amp - 1 No and Single-Phase Contactor, 32 Amp - 1 No - The price shall cover for supply, fixing, testing and commissioning of lighting control board fabricated from CRCA sheet steel, powder coated with grey finish, dust and vermin proof, water resistant with metallic door complete with MCBs of 10 KA breaking capacity. The board shall be equipped with MCB DP, 10 KA breaking capacity, 32 Amp rating - 1 No, Time switch, 16 Amp - 1 No and Single phase contactor of rating 32 Amp - 1 No. The MCB shall be of ABB/L&T (Hagar)/HPL/GE/MDS/Siemens/BCH/C&S/Schneider/CGL/Havells make, the contactor shall be of L&T/BCH/C&S/ CGL/Schneider/Siemens make and Digital Time Switch "CRONO" of L&T make or similar of Siemens/Minilec make. The board shall be completely wired with multi-stranded copper wire of suitable capacity and shall be provided with heavy duty connectors of suitable capacity for termination of incoming and outgoing wires and shall be provided with two nos of earthing terminals on each side of the board and riveted metallic caution board in three languages.							
5	5	4.00	Numbers	24754.00	99016.00	AT Par	99016.00	
	Description:- Providing Distribution Board with incomer MCCB, four-pole, 100 Amp - 1 Nos and outgoing MCB TPN, 63 Amp - 4 Nos, MCB DP, 32 Amp - 4 Nos and MCB DP 16 Amp - 2 Nos - The price shall cover for fabrication, supply, fixing, testing and commissioning of outdoor type LT distribution board fabricated from 18 SWG CRCA sheet steel, powder coated with grey enamel, double door, wall/floor mounted, dust and vermin proof, water resistant, outdoor type conforming to relevant IS and complete with MCCBs and MCBs. The board shall fabricated for three-phase, four-wire, 440 Volt AC, 50 Hz supply system and shall consist of the following switchgears/accessories - (a) Incomer - MCCB, four-pole, 100 Amp, with thermal-magnetic release range 80 - 100 Amp, Ics = 100% Icu having 35 KA breaking capacity and conforming to IS/IEC 60947-2 with adjustable overload and short circuit settings and inbuilt instantaneous protection. The MCCB shall be supplied with spreader terminals and rotary handle. The MCCB shall be of ABB/L&T (Hagar)/GE/MDS/Siemens/BCH/C&S/HPL/Schneider make --- 1 No (b) Outgoing - MCB TPN, 10 KA breaking capacity, 63 Amp of ABB/L&T (Hagar)/GE/MDS/Siemens/BCH/C&S/HPL/ Schneider make ---- 2 Nos MCB DP, 10 KA breaking capacity, 16/32 Amp of ABB/L&T (Hagar)/GE/MDS/Siemens/BCH/C&S/HPL/ Schneider make ---- 6 Nos (c) Bus bar for main circuit and neutral shall have uniform cross section and made from electrolytic tinned copper as per relevant standards with colour coded, heat shrinkable, PVC insulated and having current density of 1.6 Amp/sq. mm cross sectional area --- 1 set (d) Multi LED type indication lamp for three-phases (Red, Yellow and Blue) with protection fuses of L&T/C&S/BCH make - -- 1 Set (e) Cable glands of required sizes --- LOT (f) Two earth terminals of 12 mm diameter G.I. nut/bolt with washers shall be provided in the LT panel and all sheet steel section shall be electrically connected with a separate G.I. earth strip of 50 x 6 mm size across the panel at bottom. (g) Metallic Caution Board in three languages riveted to the panel board --- 2 Nos							
7	7	10.00	Numbers	9898.00	98980.00	AT Par	98980.00	
	Description:- Supply, fixing, testing and commissioning of power panel board consisting of three-phase ray roll socket, 63 Amp with MCB TPN, 63 Amp and socket five-pin, 63 Amp - 1 No and single-phase ray roll socket, 40 Amp - 1 No, MCB DP, 25 Amp - 1 No and three-pin socket, 25 Amp - 1 No in sheet steel enclosure - The price shall cover for supply, fixing, testing and commissioning of three-phase, 415 Volt, 63 Amp, heavy duty, power panel fabricated from 18 SWG CRCA sheet steel, powder coated with grey enamel, double door, wall/floor mounted, dust and vermin proof, water resistant, outdoor type conforming to relevant IS and complete with MCCBs and MCBs. The board shall fabricated for three-phase, four-wire, 440 Volt AC, 50 Hz supply system and shall consist of the following switchgears/ accessories - (i) MCB TPN, 10 KA breaking capacity, 63 Amp of ABB/L&T (Hagar)/GE/MDS/Siemens/BCH/C&S/ HPL/Schneider make ---- 1 No (ii) MCB DP, 10 KA breaking capacity, 25 Amp of ABB/L&T (Hagar)/HPL/GE/MDS/Siemens/BCH/C&S/ CGL/Schneider/Havells make --- 1 No (iii) Three-phase, 415 Volt power plug and five-pin socket with spring loaded cover, 63 Amp of BCH make, Cat. No. DS6A7A1 or similar model of L&T/SIEMENS/HPL with MCCB TPN, 63 Amp --- 1 No (iv) Single phase, 250 Volt power plug and three-pin socket, 40 Amp of BCH make, Cat. No. MPSEU202 or similar model of L&T/SIEMENS/HPL --- 1No (v) Single phase, 250 Volt power plug and three-pin socket, 20 Amp of BCH make, Cat. No. MPSEU202 or similar model of L&T/SIEMENS/HPL --- 1No (vi) Bus bar for main circuit and neutral shall have uniform cross section and made from electrolytic tinned copper as per relevant standards with colour coded, heat shrinkable, PVC insulated and having current density of 1.6 Amp/sq. mm cross sectional area --- 1 set (vii) Multi LED type indication lamp for three-phases (Red, Yellow and Blue) with protection fuses of L&T/C&S/BCH make --- 1 Set (viii) Cable glands of required sizes --- LOT (ix) Two earth terminals of 12 mm diameter G.I. nut/bolt with washers shall be provided in the LT panel and all sheet steel section shall be electrically connected with a separate G.I. earth strip of 50 x 6 mm size across the panel at bottom. (x) Metallic Caution Board in three languages riveted to the panel board --- 2 Nos (xi) The enclosure shall be internally wired by suitable size FRPVC insulated, single core flexible copper multi-stranded wires with crimped copper lugs. The price shall also cover for fixing testing and commissioning of the enclosure securely on cover shed pillars/rails/wall with necessary M.S. clamps, nuts, bolts etc. The drawing, design of plug socket, switchgears with make and model shall be got approved from site-engineer before fabrication and supply.							
	8	524.00	cum	129.00	67596.00	AT Par	67596.00	

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8	Description:- Digging of cable trench 450/600 mm wide and 900 mm deep in all types of soil including hard, rocky etc - The price shall cover for digging of 450/600 mm wide and 900 mm deep trench in all types of soil including soft, rocky as per cable route plan and filling back the trench after laying of cables. This also includes clearing of roots of trees and bushes and other temporary obstructions on the selected route.							
	9	100.00	Metre	406.00	40600.00	AT Par	40600.00	
9	Description:- Digging of cable trench 100 mm wide and 200 mm deep in concrete/tar road/platform and refilling to its original position after laying of cable in 50 mm HDPE pipe - The price shall cover for digging of cable trench of size 100 x 200 mm deep on concrete/tar road/platform surface and its refilling/plastering after laying of cable in 50 mm diameter HDPE pipe of make Tijaria/Himalyan/Koncept/ Poddar/Unique/Dutron/Reliance/Baba/Shivam in existing trench. Supply and laying of HDPE pipe, 50 mm diameter is in the scope of work.							
	10	1220.00	Metre	84.00	102480.00	AT Par	102480.00	
10	Description:- Supply and laying of DWC pipe, 63 mm diameter - The price shall cover for supply of Double Wall Corrugated (DWC) HDPE pipe of 63 mm diameter. DWC HDPE pipe shall have corrugation on outer wall but inner wall shall be plain conforming to IS: 14930 Part I and II amended from time to time. The pipes shall be "ISI" marked. Accessories like HDPE snap fit coupler with neoprene 'O' ring shall be part of supply to make the joints water/damp proof. The strength and stiffness class of the pipe shall be SN4 and SN8 respectively. The DWC pipe shall be of SUPREME/ASTRAL/DUTRON make or any other make approved by Sr. DEE (Power) BRC as per IS mentioned above. The price shall also cover for laying the DWC pipes in existing trench.							
	11	50.00	Metre	1512.00	75600.00	AT Par	75600.00	
11	Description:- Supply and laying of HDPE pipe, 110 mm diameter by pushing method under track/road - The price shall cover for supply of HDPE (High Density Polyethylene) pipe of 110 mm nominal diameter as per IS 4984-1995 of make Tijaria/Himalyan/Koncept/Poddar/Unique with accessories required for laying such as coupler, bend etc. as per description given in Annexure-XXI of tender document. The price shall also cover for laying the HDPE pipes in the ground below the tracks/road by push through method at a depth below the formation level as indicated in the drawing supplied by railway. The term "formation" level means the earth surface just below the bedding of the ballast. In case of any hard/stony soil, contractor should adopt new technology method in push through method. Each length of the pipes shall be joined together properly using proper size of socket and aligned in a straight line, keeping an inclination to facilitate the draining of water.							
	12	1091.00	Metre	21.00	22911.00	AT Par	22911.00	
12	Description:- Laying of cable in trench - The price shall cover for laying, testing and commissioning of LTUG armoured cable in existing trench/pipe and its connection at both ends. The cable shall be tested with 500 Volt Megger earth tester before laying it in the trench. The cable cores shall be tested for continuity, absence of cross phasing, Insulation Resistance between conductors to earth/armour and between conductors. The results should be recorded in presence of railways' representative. A composite cable layout plan on ferro-print or computerized print duly laminated in A-4 size should be submitted by the contractor to this office as well as site in-charge after laying of cable. Cables shall be supplied by railways at site engineer's stores.							
	13	900.00	Metre	33.00	29700.00	AT Par	29700.00	
13	Description:- Laying of cable on wall/cover shed/existing tray with MS clamp - The price shall cover for laying, testing and commissioning of LTUG armoured cable on wall/cover shed/in existing tray and its connection at both ends. The cable shall be tested with 500 Volt Megger before laying it in the tray. The cable cores shall be tested for continuity, absence of cross phasing, Insulation Resistance between conductors to earth/armour and between conductors. The results should be recorded in presence of railways' representative. A composite cable layout plan on ferro-print or computerized print duly laminated in A-4 size should be submitted by the contractor to site engineer and Divisional Office after laying of cable.							
	14	15.00	Numbers	12246.00	183690.00	AT Par	183690.00	
14	Description:- Supply, fixing, testing and commissioning of 5.0-meter height G.I. Street Light octagonal pole, single arm complete with all accessories and foundation - The price shall cover for supply, erection and commissioning of 5.0-meter height single arm, G.I. Street light octagonal pole as per the specifications given in Annexure-XXI of tender document.							
	15	15.00	Numbers	15465.00	231975.00	AT Par	231975.00	
15	Description:- Supply, fixing, testing and commissioning of 5.0-meter height G.I. Street Light octagonal pole, double arm complete with all accessories and foundation - The price shall cover for supply, erection and commissioning of 5.0-meter height double arm, G.I. Street light octagonal pole as per the specifications given in Annexure-XXI of tender document.							
	16	18.00	Numbers	10594.00	190692.00	AT Par	190692.00	
16	Description:- Providing maintenance free earthing - The price shall cover for providing maintenance free earthing as per the following specifications - 1. High tensile-low carbon steel rod having diameter not less than 17 mm complying with requirements of BS 4360 Grade 43A or EN10025:2-004 S275JR, molecularly bonded by 99.99% pure high conductivity copper on outer surface with copper coating thickness of 250 micron or more, Length 3000 mm (minimum). Certificates from NABL approved labs shall be submitted with test results. 2. Copper earth bus-bar of size 250 mm x 50 mm x 6 mm having electrical conductivity of 101% IACS, minimum 99.9% copper content shall be exothermically welded to rod with 4 holes of 12 mm diameter (two on each side) for connecting earthing conductor. 3. Earth Enhancement compound should have characteristics as mentioned in the RDSO specifications. It should have low resistivity preferably below 0.2 Ohm-meter, supplied in sealed bags (minimum 75 kg per pit for 5' x 5' x 10' size pit and minimum 50 kg per pit for 300 mm bore type pit. The bags shall be marked with manufacturer's name or trade name, quality, Batch No. and date of manufacture. Certificates from NABL approved labs shall be submitted with test results, for at least following parameters - i) Composition of Earth Enhancement compound ii) Resistivity - < 2 Ohm-meter iii) pH value - > 7 but < 9 iv) Moisture retaining capacity - > 10% at 105 degrees Celsius v) Water solubility - < 5% 4. Backfill material - Good quality soil or excavated soil free from sand, gravel and stones shall be used for backfilling. 5. Earth pit of size 5 feet x 5 feet x 10 feet or min 300 mm bore up to 10 feet using earth auger shall be made. 6. Inspection chamber - A concrete box of 300 x 300 x 300 mm (inside dimensions) and 50 mm thickness of wall, with smooth cement plaster finish shall be provided on the top of the pit. A concrete lid, painted black, approximately 50 mm thick with pulling hooks shall be provided to cover the earth pit. PVC sleeve shall be provided in concrete wall to take out earthing connections. 7. On backside of the cover, date of the testing and average resistance value shall be written with yellow paint on black background. 8. Instead of copper bus-bar and strips mentioned in the drawing, a GI main bus-bar of minimum size 300 mm x 75 mm x 8 mm to be installed on nearby wall etc. It shall be connected to earthing with two GI strips of 50 mm x 6 mm size each, up to a distance of 10 meters from earth bus-bar (minimum 3 meters x 2 Nos GI strips to be supplied). 9. Earthing shall generally be carried out in accordance with the requirement of I.E. Rules, 1956, as amended from time to time and shall confirm to IS: 3043 of 1987 with latest amendment. 10. The earth value shall be measured and recorded at the site by painting on earth pit or nearest wall along with date of testing. It shall be less than 2 Ohms and neutral to earth voltage shall be less than 3 Volt. 11. Earthing performance after a year of installation shall be jointly checked and measured. It should be less than 2 Ohm. 12. General arrangement of the earth system shall be as per the drawing given in Annexure-XXI.							
S.No. Item Code Item Qty Qty Unit Unit Rate Basic Value Escl.(%)							Amount	Bidding Unit
Schedule () B- LED Fittings							57200.00	Above/ Below/Par
	1	20.00	Numbers	2860.00	57200.00	AT Par	57200.00	
1	Description:- Providing LED street light fitting, 35-45 Watt complete with all accessories - The price shall cover for supply of 35 - 45-Watt LED Street Light fitting made from pressure die-cast LM6/ADC12/LM24 housing with optimal heat sink for better thermal dissipation and toughened glass or UV stabilized polycarbonate cover with high transmission index for superior light output. The fitting shall be as per Western Railways' specification no. WR/CCG/Specification/P/001 (Rev-01)-2018 of reputed quality and make. The fitting shall be designed for IP: 65 class protection for pole/bracket mounting. The fitting shall be provided with special moisture proof vent. The fitting shall be of reputed quality and make. The price shall also cover for fixing, testing and commissioning of the above street light fitting on pole/truss/roof/wall by fabrication and supply of 'B' class G.I. pipe of required length, diameter and shape and fixed with M.S. clamps made from M.S. flat of 40 x 5 mm size duly painted with nut, bolts and washers of 12 mm diameter. The connection shall be carried out through ISI marked, PVC insulated, flexible three-core copper wire of size 24/0.20 mm from the existing overhead line/catenary/junction box as per site conditions. The connection cord shall be protected by suitable size of heavy-duty flexible PVC conduit. Removal of existing fittings along with pipe and clamps and handing over the same to the site in-charge is included in the scope of work.							

3. ITEM BREAKUP

No item break up added

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)

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2	In terms of Railway Board's letter No. 2018/CE-I/CT/9 dated 04/06/2018, instructions as under - For all the tenders having advertised cost of Rs 10 Lakh or above, the contractor shall have the option to take payment from Railways through a letter of credit (LC) arrangement. This option of taking payment through Le arrangement has to be exercised in IREPS (Indian Railway Electronic Procurement System - the e-application on which tenders are called by Railways) by the tenderer at the time of bidding itself, and the tenderer shall affirm having read over and agreed to the terms and conditions of the LC option.	No	No	Not Allowed
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Technical-Compliances

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The tendering firm must have valid Electrical Contractor's License issued by the Government in their own name. A copy of the license shall be uploaded along with the tender offer, failing which the offer shall be summarily rejected. The license must be valid as on the date of opening of the tender. If the Electrical Contractor's License has expired as on the date of opening of tender, the license renewal documents must be uploaded along with the copy of the license.	No	No	Allowed (Mandatory)

6. Documents attached with tender

S.No.	Document Name	Document Description
1	TechSpecsofEnergyEfficientLEDBasedLuminaire.pdf	LED Specs
2	RailwayBoardsletterNo.2018_CE-I_CT_9dated04.06.18.pdf	Letter of Credit
3	2024_06_03InstructionforincorporatingtheJPOCircularetc_ProvisionsintheTenderDocumentforallworksrequiringdiggingworksclosetoRly1.pdf	JPO Circular for cable laying
4	BankGuaranteeverification.pdf	Bank Guarantee Letter
5	TenderDocument-BRC-EL-P-22-2495-25-26-RNEWGCC.pdf	Tender Document

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: PRADEEP MEENA

Designation : Sr.DEE/power