

**DYCSTE-C-BRC-S AND T/WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-BRC-154R-2025-26

Closing Date/Time: 21/07/2026 15:00

DY CSTE C BRC acting for and on behalf of The President of India invites E-Tenders against Tender No **SnT-C-BRC-154R-2025-26** Closing Date/Time 21/07/2026 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	"Design, Supply, Installation, Programming, Testing and Commissioning of New Hot Standby Electronic Interlocking System at Waghodiya , Jarod and Lotna Stations and EI alteration at Dabhoi and Samlaya station along with Supply, Installation, Testing and Commissioning of various Indoor and Outdoor Signaling System with BPAC in Dabhoi-Waghodiya -Jarod - Lotna-Samlaya Section in connection of provision of Gauge Conversion Work under Dy. CSTE Construction, Vadodara, Gujarat (Western Railway)		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Two Packet System
Tender Closing Date Time	21/07/2026 15:00	Date Time Of Uploading Tender	27/06/2026 16:47
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	293868260.25	Tendering Section	BARODA DIV
Bidding Style	Single Rate for Each Schedule	Bidding Unit	
Earnest Money (Rs.)	5877400.00	Validity of Offer (Days)	90
Tender Doc. Cost (Rs.)	0.00	Period of Completion	12 Months
Contract Type	Works - General	Contract Category	Expenditure
Bidding Start Date	07/07/2026		
Are JV allowed to bid	Yes	Number of JV Member Allowed	3
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-Supply of Items							111628522.18	Above/ Below/ Par
1	A	597.00	Per Functional Vital Bit	75413.80	45022038.60	AT Par	45022038.60	
Description:- "Design, manufacture and supply of Hot Standby Architecture Electronic Interlocking (EI) system i.e. Distributed or Centralized as per requirement of zonal railway, complete as per RDSO specification and as per attached technical requirement & tentative approved Signalling Plans & Diagrams. This include Central Processing Equipment, Interface Equipment, All Interfacing Relays suitable for EI, In-built event Logger, interconnecting cables and Jumper wires, Required power supply converters for EI equipments, Housing for EI equipments & relay racks, fuses, screw less disconnecting type terminals, fixture mounting arrangements, Industrial grade maintenance Terminals (32" LED or higher size with UPS minimum 1 hr back up with Printer) and other necessary accessories to make the EI system functional as per approved signalling plan.All items shall be supplied as per, per functional bit/station for functioning of EI. Negative variation in functional bit not permitted and for positive variation card wise/Modules etc. breakup should furnish by tenderer. Technical Requirement- (1) No of Bits Each station. (2) Architecture-Minimum 2 out of 2 (3) Non vital I/O- can be used only for accessories where SIL-4 condition required. (4) Station less than 200 routes- RDSO/SPN/192/2019 Ver.2.0 with latest amendment. 5.Station greater than 200 routes - RDSO/SPN/203/2011 Ver1 or latest. Supply of 10% Essential spares of the EI equipments subject to minimum one of each type mainly consisting of processor, cards/module, interface relay, DC-DC Convertors, Moxa switch, OFC Connectors, etc. Item wise detailed break up with unit and quantity to be provided in separate annexure. (The quantity involves 10% spare). Note - Rate does not include cost of VDUs and Embedded PC . Dual operator Industrial Grade VDU panel and Embedded PC will be taken separately. Waghodiya.(200) Jarod(146), Lotna(251)"								

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TENDER DOCUMENT**

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Closing Date/Time: 21/07/2026 15:00

2	Please see Item Breakup for details.			694352.25	AT Par	694352.25	
	Description:- Supply, Installation and Commissioning of EI VDU (Visual Display Unit, 4 K with all suitable accessories Compatible to EI Interlocking in Safe Mode 24x7 at controlling station. The item must comply minimum following specification- (a) Screen Size (Diagonal):- As below (b) Resolution :- 4K (c) Viewing angle degree: - 178x178 degree (d) Brightness :- 500 Nits (e) contrast ratio 4000:1 (f) Backlit :- Direct LED (g) Jack Interface: - HDMI -3 no. 1.2 DP, DVI USB 2.0 -2 no. CI Slot RF In AV In Component In (RCA5 Type) Digital Audio Out RGB In (D-sub 15pin)-PC PC Audio Input RS232C (D-Sub 9pin) RJ45 Stereo mini jack. (h) Optical Out :- Available Note- Screen size will be decided as per instruction of engineer incharge.						
3	A	3.00	Numbers	242983.61	728950.83	AT Par	728950.83
	Description:- "Supply and Installation of Modular power supply arrangement for VDU and industrial PC (Embedded PC) with input and output redundancy arrangement and Hot pluggable Modules as per RDSO specification. Make - Gallant or similar. One set consists of- (1) Input O- ring diode module with potential free -1 No contacts (PFC) for two 110 V DC sources from IPS and single 110 VDC bus Qty 1 No. (2) Isolated Inverters (Master / slave) - Input-110 V DC Output: 120 V AC/220V A500VA - 02 Nos.(3) Isolated DC-DC convertors- Input : 110 v DC Output : 24 V DC/ 10A,Qty -10No.s (4) 3 U SS rack with back panel mother board /front panel power connectors inverter auto change over switch and all required over switch and all required protection circuits (3U height for main rack 132.5mm +/-10% & 1U height for mounting 44.5mm +/- 10%) Qty - 1 No.Make- Gallant or similar."						
4	A	8.00	Numbers	176579.92	1412639.36	AT Par	1412639.36
	Description:- Supply & installation of Industrial Grade Embedded PC as per RDSO TAN no. STS/E/TAN/3007 dated 2.11.12 or latest.						
5	A	4.00	Set	118992.56	475970.24	AT Par	475970.24
	Description:- Portable workstation for Data input & configuration with necessary software/ programs / Accessories, simulation and functional testing, diagnostics, and troubleshooting and commissioning of EI system. A suitable table and chair of a reputed make shall be supplied by the contractor. Note: The specification of the portable workstation shall be as per the Technical specification given in Annexure or higher version as approved by Engineer In-Charge. All the required software should be uploaded Licensed CD should be given along with the software. (Name of the reputed firm and technical specification shall be written in tender documents.)						
6	A	3.00	Set	105770.59	317311.77	AT Par	317311.77
	Description:- Instruments and Tool Kits required for Trouble Shooting and repair of hardware and software for the EI system should be supplied for stations as per schedule item 1 above. This includes tools required for EI maintenance sorts of crimping, insertion, removal. General purpose tools like screwdrivers, spanners, PCB extractor, temp. Controlled soldering iron, wire cutter, nose pliers, etc. Measuring instruments with carrying case/ holders/ cabinet for technicians/ J.E. for testing, Maintenance and repair at the site). Each set comprises the following - (1) Crimping tool for all types of special cable assembly used in EI system. (2) Insertion tool for all types of special cable assembly used in EI system. (3) Removal tool for all types of special cable assembly used in EI system. (4) Digital multimeter (Fluke 111 or better) (5) Steel cabinet/ Almira, Size: 1980mm height, 915 mm width and 485 mm depth (Godrej Make/Jalaram) of good quality to store tools, spare cards and documents.(6) Clamp Earth Tester. (7)Clamp Current Meter.						
7	A	3.00	Set	642033.00	1926099.00	AT Par	1926099.00
	Description:- Modular Control Desk, suitable for SM room applications.1. It shall be designed to accommodate two (02) monitors with ergonomic provisions for operator comfort, effective equipment housing. 2. Dimensions Overall Size: 5520 mm (Length) x 2570 mm (Depth). 3. Premium quality Tabletop 1 meter width, Mounted on high-density material for structural integrity, Polished surface, smooth edges, chamfered corners. 4. Structure Material: Powder-coated aluminum profiles for the main structure, Legs: Aesthetic, heavy-duty legs on extreme sides for enhanced appearance and support.5. Monitor ArmAssembly: Powder-coated aluminum profile & Panel: 1.6 mm thick perforated cold-rolled steel sheet (CRCA) for monitor support and ventilation. Suitable for securely mounting 2 monitors with adjustable positioning.6.Front and Rear Shutters Material 18 mm thick premium laminated MDF board, Integrated ventilation slots/air vents for proper airflow, Lockable mechanism for secure access, Provision for mounting cooling fans in both front and rear shutters for active cooling.7. Front Tabletop Wall Height Minimum 300 mm above the tabletop.8. Functional Accessories & Provisions Keyboard Trays: 3 Nos, Cable Management, DIN Rails and Mounting Rails inside for fixing electrical/control equipment as per requirement. Make: IKEA, Calibrix, Godrej..						
	A	4.00	Job	110907.63	443630.52	AT Par	443630.52

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Tender No: SnT-C-BRC-154R-2025-26

Closing Date/Time: 21/07/2026 15:00

8	Description:- Earthing of EI equipment, relay racks and Power equipment etc. to be done along with the supply of all requisite materials. Earthing shall be in the form of Ring Earth conforming to RDSO specification No. RDSO/SPN/197/2008 (with a min. of 6 maintenance free earth electrodes) & RDSO Drawing issued under Railway Board letter No. 2010/Sig./SGF/EI (Ansaldo) Dated 22.06.11, made using copper rings with earth resistance less than 1 ohm. The earthing shall be maintenance free & earth enhancement compound should be used. The ring earth shall be connected to copper flat of size 25x3 mm in the relay room and IPS room. This copper flat shall be fixed on the wall to the entire breadth of the Relay room and IPS room as an earth bus bar and all earth connections shall be taken from it. A, B, C, & D class protection shall be provided for all EI equipment. Note - This will also cover the earthing & necessary protection of EI equipment as per details given in the scope of work of Special Condition of Contract and other requirement given in Chapter of tender document & Pre-commissioning check list of EI system.						
9	A	16.00	Man-Days	920.39	14726.24	AT Par	14726.24
	Description:- Training of Officers for installation, Commissioning, Testing, and Repairs & Trouble shooting of the EI system. (Hard copies of training material/ course modules to be given to each participant).						
10	A	34.00	Man-Days	990.07	33662.38	AT Par	33662.38
	Description:- Training of Technician/ Jr. Engineer for installation, Commissioning, Testing, Repairs & Troubleshooting alteration, design of EI system, as per details given in Special Condition of Contract. (Hard copies of training manuals/ course module to be given to each participant).						
11	Please see Item Breakup for details.			2460108.25	AT Par	2460108.25	
	Description:- Data logger system for Railway S&T installation As per spec. IRS: S-99 2006 (Amdt-3) or latest. Central Monitoring Unit (Hardware Configuration as per Annexure) with UPS minimum 06 hrs battery backup and required Software tools. This also includes the supply of one no composite computer & printer table (Godrej workstation table) for keeping the Processor module and one no Godrej make operator chair model PCH7001.						
12	A	5.00	Set	44520.26	222601.30	AT Par	222601.30
	Description:- Failure Analysis & Fault Diagnostic software for data logger of 1024 digital inputs /4096 digital inputs.						
13	A	5.00	Numbers	239704.34	1198521.70	AT Par	1198521.70
	Description:- Failure Analysis System or Central Monitoring Unit with Printer. As per technical specification IRS: S-992006 (Amdt-3) or latest. The specification of Failure Analysis System should be got approved from the Engineer in charge before supply. The Specification of Failure Analysis System shall be as per technical specification given in contract Agreement or higher version as approved by Engineer In-Charge. (Technical specification shall be provided in tender documents.)						
14	A	3.00	Numbers	26366.48	79099.44	AT Par	79099.44
	Description:- 750 VA Off line UPS with battery backup 3 Hours for Failure Analysis System of reputed make as per Engineer in-charge.						
15	A	62.00	Numbers	7182.53	445316.86	AT Par	445316.86
	Description:- Main Signal Post Tubular 140 mm Dia, 4.6 Mtr Length as per IRS: S-6/81 or Latest & RDSO Drg. No. SA-24625 (Advance).						
16	A	11.00	Numbers	9871.24	108583.64	AT Par	108583.64
	Description:- Main Signal Post Tubular 140 mm Dia, 5.6 Mtr Length as per IRS: S-6/81 or Latest & RDSO Drg. No. SA-24625 (Advance).						
17	Please see Item Breakup for details.			296555.65	AT Par	296555.65	
	Description:- Supply Color Light Signal Accessories.						
18	A	11.00	Numbers	3604.70	39651.70	AT Par	39651.70
	Description:- Offset brackets for Main Signal, made of tubular steel, outer diameter 140 mm, thickness of pipe 4.5 mm. horizontal length of pipe 545 mm & vertical length of pipe 324 mm with fixing arrangement on Main Signal post as per Drawing No SW/554/G/R.						
19	A	37.00	Numbers	25034.08	926260.96	AT Par	926260.96
	Description:- Non Metallic (FRP) color light signal housing multi-unit type for railway signaling suitable for RE area TWO Aspects. Complete without lenses, lamps and signal transformer as per RDSO DRG. No. SA 23001/A/M Adv. Alt- S and as per SPEC. No. RDSO/SPN/194/2006 (Vol. 1.0) or latest and FRP material as per RDSO SPEC. No. RDSO / SPN / 151/ 1997 or latest.						
20	A	25.00	Numbers	27020.46	675511.50	AT Par	675511.50
	Description:- "Non Metallic (FRP) color light signal housing multi-unit type for railway signaling suitable for RE area THREE Aspects. Complete without lenses, lamps and signal transformer as per RDSO DRG. No. SA 23001/A/M Adv. Alt- S and as per SPEC. No. RDSO/SPN/194/2006 (Vol.1.0) or latest and FRP material as per RDSO SPEC. No. RDSO/SPN/151/1997 or latest."						
21	A	5.00	Numbers	33303.86	166519.30	AT Par	166519.30

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TENDER DOCUMENT**

Tender No: SnT-C-BRC-154R-2025-26

Closing Date/Time: 21/07/2026 15:00

			Description:- Non Metallic (FRP) color light signal housing multi-unit type for railway signalling suitable for RE area FOUR Aspects. Complete without lenses, lamps and signal transformer as per RDSO Drg.No. SA 23001/A/M Adv. Alt- Sand as per SPEC. No. RDSO/SPN/194/2006 (Vol.1.0) or latest and FRP material as per RDSO SPEC. No. RDSO/SPN/151/1997 or latest.				
22	A	5.00	Numbers	19071.77	95358.85	AT Par	95358.85
			Description:- Non Metallic (FRP) Junction route indicator unit 1 ways as per Drg. No. RDSO SA 23403 suitable for LED Signal Lighting Unit & as IRS: S-66/84 amndt-1 or latest.				
23	A	12.00	Numbers	19071.77	228861.24	AT Par	228861.24
			Description:- Non Metallic (FRP) Junction route indicator unit 2 ways as per Drg. No. RDSO SA 23403 suitable for LED Signal Lighting Unit & as IRS: S-66/84 amndt-1 or latest.				
24	A	10.00	Numbers	31859.21	318592.10	AT Par	318592.10
			Description:- Non Metallic (FRP) Junction route indicator unit 3 ways as per Drg. No. RDSO SA 23403 suitable for LED Signal Lighting Unit & as IRS: S-66/84 amndt-1 or latest.				
25	A	3.00	Numbers	21442.84	64328.52	AT Par	64328.52
			Description:- Non Metallic (FRP) Junction route indicator unit 4 way as per Drg. No. RDSO SA 23401 suitable for LED Signal Lighting Unit & as IRS: S-66/84 amndt-1 or latest.				
26	A	18.00	Numbers	2418.50	43533.00	AT Par	43533.00
			Description:- Calling ON Signal Unit with Brackets & Fixing accessories. Calling On Signal Unit shall conform to RDSO Drg no 24351(Adv.) Alt1 suitable to LED Signal Lighting Unit.				
27	A	33.00	Numbers	4104.24	135439.92	AT Par	135439.92
			Description:- "Position Light Shunt Signal Unit Complete with Post (made of GI Pipe of 80 mm Diameter Medium Class IS Spec. No. IS: 1239 Pt. 1/1990) Base, Hood, and Cover, etc. as per Drg. No. SA-23840, Signal Number Plate, suitable for LED Signal Lighting Unit. (Supply of LED Unit is not covered in this item)."				
28	A	21.00	Numbers	2943.13	61805.73	AT Par	61805.73
			Description:- Position Light Shunt Signal Unit Complete, with offset bracket, hood, Cover etc. as per Drg. No. SA-23840 suitable for LED Signal Lighting Unit. (Supply of LED Unit is not covered in this item).				
29	A	18.00	Set	1122.00	20196.00	AT Par	20196.00
			Description:- Fabrication and fixing of 'A' Marker (Drg No. CSTE/6180), 'AG' Marker (Drg No. CSTE/6181), 'P' Marker (Drg No. CSTE/6182), Arrow Marker (Drg No. CSTE/6183), 'G' Marker (Drg No. CSTE/6184), 'C' Marker (Drg No. CSTE/6185). Marker disk on signals as per standard practice All material required for this work shall be supplied by Contractor.				
30	Please see Item Breakup for details.				2465158.60	AT Par	2465158.60
			Description:- Supply of DC Track Circuit Accessories as follows -				
31	A	8.00	Numbers	282.46	2259.68	AT Par	2259.68
			Description:- Hydrometer, Exide make or similar for measuring the specific gravity of Battery Graded acid with mounting stand in location Boxes.				
32	A	3.00	Set	113806.58	341419.74	AT Par	341419.74
			Description:- Standard Tool kits, Test and Measuring instruments required for Installation, testing, commissioning & maintenance of SSDAC. Kit will includes all tools & measuring instruments as per ANNEXURE (Annexure shall be attached with CA).				
33	A	3.00	Set	130834.62	392503.86	AT Par	392503.86
			Description:- Supply of Tools Kit for Digital Axle Counter (Multi section/Single section). (MSDAC comply to the RDSO spec. No. RDSO/SPN/176/2013/Ver.3 or latest and manufacturer's specification and SSDAC comply to the RDSO/SPN/177/2012,Ver.3 or latest respectively). The tool kit shall be minimum equipped with the following equipments- (i) All mechanical tools shall be of reputed make like Taparia/Bosch etc. (ii) Digital multimeter true RMS type of make Fluke 189 or similar reputed make with probe set - 1 No. (iii) Adjustable torque wrenches 25-135 N/mtr with 13 mm and 19 mm inserts- 1 set (iv) Set of spanners screw drivers and soldering iron - 1 set (v) Dummy wheel - 1 No. (vi) Marking Jig - 1 No. (vii) Adapter card - 1 No. (viii) Extended wired socket to interface with diag No. stic plug - 1 No. (viii) Selector switch on panel base - 1 No. (ix) DAC EC card puller etc.				
34	A	180.00	Set	4732.53	851855.40	AT Par	851855.40
			Description:- Miniature, Plug in Type, M to C, DC Neutral ,Track relay, ACI, Style QTA2, 9 Ohm, 2F-1B contact, Code - FGHKX Spec : BRS :939-A & 966 (Appx-F2) & IRS : S-23, S- 23,S-34 & 60.				
35	A	45.00	Numbers	5231.87	235434.15	AT Par	235434.15
			Description:- Miniature, Plug in type, M to C, AC immunized, DC biased Track Relay, 2F-2B contacts, style QBAT-9 ohms. Code ABEJX Spec:- RDSO/SPN/84 Ver. 2 : IRS - S@ 45"44@IRS-S-23, IRS-S@ 45<45@ 78.				
36	A	10.00	Numbers	4749.25	47492.50	AT Par	47492.50
			Description:- Relay fail safe electronic time delay device mounted on Q series relay base and cover with fixed timing of 60/120 second confirming to IRS:S:61/2000(ver.1.0) (Amdt. 3) or Latest,IRS:S:34 and IRS:S:23 (as applicable). The Interlocking code for this unit shall be AFGKY.				

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Tender No: SnT-C-BRC-154R-2025-26

Closing Date/Time: 21/07/2026 15:00

37	A	50.00	Numbers	8535.72	426786.00	AT Par	426786.00	
	Description:- Key Lock Relay working on 24V DC, AC immunize with different ward combinations (Three ward plates to be supplied with each relay). Key ward shall be specified by engineer incharge as per requirement.							
38	A	200.00	Numbers	5123.64	1024728.00	AT Par	1024728.00	
	Description:- Miniature, Plug-in Type, DC Neutral Line AC Immunized Relay, Style QNA1, 24 V DC, 8F-8B/12F-4BContact, Code ABDGH/ABDFH Spec: BRS: 931A; IRS S 34; IRS S 23; IRS S 60-78.							
39	A	50.00	Numbers	6474.03	323701.50	AT Par	323701.50	
	Description:- Miniature, Plug-in Type, DC Neutral Line Magnetically Latched Relay, Style QL1, 24 V DC, 11F-4B Contact, Code ABDEG Spec: BRS:935A ; IRSS 34 ; IRS S 23.							
40	A	50.00	Numbers	4749.15	237457.50	AT Par	237457.50	
	Description:- Miniature, Plug in Type, DC Neutral ,Line Relay QSPA1, 24V DC, Slow to Pick up AC Immunized, 12F-4B/8F-4B Contact, Code ABDEJ Spec:BRS:933A ; IRS S 34 ; IRS S 23;IRS S 60-78.							
41	A	90.00	Numbers	5276.31	474867.90	AT Par	474867.90	
	Description:- Universal AC ECR of Q series, type "QECX61" suitable for AC LED all signal aspect, Front & back contact Metal to Carbon type complete with plug board retaining clip & connectors conforming to Spec STS/E/Relays/AC Lit LED Signal/09/2002, BRS: 941A, IRS: S34 and IRS: S23 (as applicable).							
42	A	60.00	Numbers	4027.41	241644.60	AT Par	241644.60	
	Description:- Miniature, Plug-in Type, DC Neutral Line, Non AC Immunized Relay, Style QN1, 24 V DC, 8F-8B/12F- 4BContact, Code ABCDF/ABCDE Spec: BRS: 930; IRSS 34; IRS S 23.							
43	A	90.00	Numbers	6476.86	582917.40	AT Par	582917.40	
	Description:- Plug in Type, Tractive Armature, A C Immunized, DC Biased Contactor Relay, Style QBCA1,2HF-4B Contact,24 V DC, Code BCEJK Spec:BRS:943 ; IRS S 34 ; IRS S 23 ;IRSS 60-78.							
44	A	5.00	Numbers	2799.45	13997.25	AT Par	13997.25	
	Description:- Supply of self supported aluminum flat step ladder (conforming to ISI) 5 ft. height. Ladder should be self- supported and it should be made up of rust proof Aluminum of Min 16 SWG. No plastic hinges/Step support should be used.							
45	A	5.00	Numbers	52575.88	262879.40	AT Par	262879.40	
	Description:- Supply of Smart Cabinet/Rack for Housing of Various S&T equipments like KLCR, Reset Box, IPS Indication Panel, CA VA Unit for FACS, SP AU for Point Reversal, Crank Handle, Quad Cable Earth Sensing Unit along with Fixing of KLCR (KLCR will be provided by Railway) as per instruction of Site Engineer, Make RITTAL, SANTEL, VERO , PRESIDENT, APC Schneider or similar reputed make.							
46	A	45.00	Numbers	21751.36	978811.20	AT Par	978811.20	
	Description:- Cable termination racks as per Drg. no. CSTE 5004, 5005, 5006 complete along with fitting arrangements and also with arrangement for fixing four 8-way terminal strips/ Screw less terminals on each row having 16 such rows. Supply of 8 way terminal strips/ Screw less terminals not covered under this item. Cable termination rack shall be Powder Coated.							
47	A	3.00	Numbers	11252.46	33757.38	AT Par	33757.38	
	Description:- Supply & installation of Test board (LED, Pin tool type) for relay Room as per as per Drg.No RST/C/105 A & B.							
48	A	11.00	Numbers	137326.85	1510595.35	AT Par	1510595.35	
	Description:- Earth Leakage Detector as per RDSO/SPN/256/2002 or latest with latest amendments. The basic detector unit shall comprise of 8 channels, for use on signaling circuits of 110V AC/DC and/or 60V/24V/12V DC as ordered by purchaser. If the detector is required for less number of channels, dummy plates shall be provided. For additional requirement a d d on /expendable cabinet may be used. The voltage specified shall be provided with + 25% and - 10% tolerance.							
49	A	10.00	Each Module	42073.05	420730.50	AT Par	420730.50	
	Description:- Fuse auto changeover system for use i n Railway Signaling System as per RDSO/SPN/209/2012 rev.1 with latest amendments. One Automatic changeover Unit comprises 24 nos. of external Non-Deteriorating Type or 'G' type fuses from 4 Amp to 10 Amp capacities which are in signaling circuits. The system shall have 6 cards with a monitoring arrangement of 4 fuses in one card.							
50	A	66.00	Each Module	24524.17	1618595.22	AT Par	1618595.22	
	Description:- Fuse auto changeover system for use i n Railway Signaling System as per RDSO/SPN/209/2012 rev.1 with latest amendments. One Automatic changeover Unit comprises 32 nos. of external Non-Deteriorating Type or 'G' type fuses from 0.6 Amp to 4 Amp capacities which are in signaling circuits. The system shall have 8 cards with a monitoring arrangement of 4 fuses in one card.							
	Please see Item Breakup for details.				1657633.20	AT Par	1657633.20	

51

**DYCSTE-C-BRC-S AND T/WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-BRC-154R-2025-26

Closing Date/Time: 21/07/2026 15:00

51	Description:- Disconnect Terminal Block, Screwless type, as per RDSO Spec. No.RDSO/SPN/189/2004. With the latest amendments.						
52	A	650.00	Numbers	245.38	159497.00	AT Par	159497.00
	Description:- Supply of 4 connection points single potential through screw less terminal block for 6 Sq.mm - 3 5 Sq.mm , 4 connection points 284-621/624 or superior, suitable for power cable connection.						
53	A	22.00	Numbers	6173.53	135817.66	AT Par	135817.66
	Description:- Fire Extinguisher CO2 type (capacity 5 kg).						
54	A	56.00	Numbers	108.83	6094.48	AT Par	6094.48
	Description:- SMC Booklets of each station register for SMC register. (1 Register to be read as 1 Number).						
55	A	840.00	Numbers	178.29	149763.60	AT Par	149763.60
	Description:- Pad locks Godrej make, Hardened NavTal 7 lever, 65mm Dia with common key or similar product having same feature & technical data.						
56	A	800.00	Numbers	2451.92	1961536.00	AT Par	1961536.00
	Description:- Earth Electrode as per Drg. No. CSTE / 6091.						
57	A	405.00	Numbers	9449.12	3826893.60	AT Par	3826893.60
	Description:- Maintenance Free Earth Electrode of length 3m, including supply of 3 bags of Earth enhancement material for earthing (10KGs /bag) for each electrode & other accessories as per Drg. No. SDO / RDSO/ E&B/001 and RDSO Spec No. RDSO / SPN/197/2008.						
58	A	26000.00	Numbers	68.92	1791920.00	AT Par	1791920.00
	Description:- ARA Terminal blocks with links made of PBT Spec No.s/75/2006 (Rev - 2) with latest amendments and RDSO Drg.No.SA-23741A Alt.4.						
59	A	10.00	Numbers	14254.64	142546.40	AT Par	142546.40
	Description:- Steel Plain Almirah with 4 adjustable slaves Size: 1980 mm height, 915 mm width and 485 mm depth. Make: Godrej Storewel Plain Large or Similar of reputed brand will be specified by Engineer in-charge.						
60	A	10.00	Numbers	2218.35	22183.50	AT Par	22183.50
	Description:- Office Chair makes Godrej CH-7B or similar of reputed brand will be specified by Engineer in-charge.						
61	A	10.00	Numbers	6905.39	69053.90	AT Par	69053.90
	Description:- Office Revolving Chair Godrej Make Model No.9u02r Bravo Or Similar of reputed brand will be specified by Engineer in-charge.						
62	A	10.00	Numbers	13063.90	130639.00	AT Par	130639.00
	Description:- Office table with laminated top with three drawers on left hand side and one locker on the right hand side. Olive brown with duplicate keys. Make: Godrej Model T-9 or Similar of reputed brand will be specified by Engineer in- charge.						
63	A	295.00	Numbers	13675.30	4034213.50	AT Par	4034213.50
	Description:- Apparatus Case Single NE Rly Type as per Drg. No. W. Rly/SW/47/68 Alt-A, fitted with two no.s of E Type lock (ward No will be specified by Engineer-in Charge) as per RDSO Drg. No. SA 3376/3473 and Key to Drg. No. 3377.Note- This item includes the supply & fixing of 2 No.s E Type Lock fitted on both doors, along with two Keys.						
64	A	115.00	Numbers	8667.14	996721.10	AT Par	996721.10
	Description:- Apparatus Case half NE Rly Type as per Drg. No. W. Rly/SW/47/68 Alt-A fitted two no.s E Type lock of (ward No will be specified by Engineer-in Charge) as per RDSO Drg. No. SA 3376/3473 and Key to Drg. No. 3377. Note: This item includes the supply & fixing of 2 No.s E Type Lock fitted on both doors, along with two Keys.						
65	A	4.00	Kilometre	139726.85	558907.40	AT Par	558907.40
	Description:- PVC insulated Railway Signalling multi-core Indoor Cable 60 core x 0.6mm Dia conforming to IRS:76/89 (Amd 3) or latest.						
66	A	5.00	Kilometre	119463.48	597317.40	AT Par	597317.40
	Description:- PPVC insulated Railway Signaling multi-core Indoor Cable 1mm x 24 mm x 1 mm Dia conforming to IRS:76/89(Amd3) or latest.						
67	A	4.00	Kilometre	110060.65	440242.60	AT Par	440242.60
	Description:- PVC insulated Railway Signaling multi-core Indoor Cable 1 mm x 40 mm x 0.6mm Dia conforming to IRS:76/89(Amd3) or latest.						
68	A	5.00	Kilometre	4693.20	23466.00	AT Par	23466.00
	Description:- Single core multi-strand wire 0.5 sq.mm. (16 conductor each dia. 0.2mm), as per IRS 76/89 (Amd3) or latest.						
	A	5.00	Kilometre	32601.83	163009.15	AT Par	163009.15

**DYCSTE-C-BRC-S AND T/WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-BRC-154R-2025-26

Closing Date/Time: 21/07/2026 15:00

69	Description:- Flexible cable (Power wire), multi-strand copper conductors cross-section 1x6 Sq.mm. (85 conductors each diameter 0.30 +/- 0.01) as per IS 694/1990 with insulation thickness of 0.80 mm nominal conductor resistance 3.30 ohms/km and test parameters are as per IRS(S)76/89 or latest.						
70	A	4.00	Kilometre	118220.17	472880.68	AT Par	472880.68
	Description:- Flexible cable (Power wire), multi-strand copper conductors cross section (1x16Sq.mm).101 Conductors each diameter 0.45 +/- 0.01 as per IS 694/2010 with insulation thickness of 1.2mm nominal conductor resistance 1.127 Ohms/Km and test parameters as per IRS(S) 76/89 or latest.						
71	A	4.00	Kilometre	124554.81	498219.24	AT Par	498219.24
	Description:- Flexible cable (Power wire), multi-strand copper conductor's cross section 25 Sq. mm (0.4x196) as per specn. IS 694/2010 with latest amendment, and test parameters as per IRS(S) 76/89.						
72	A	1250.00	Numbers	1757.06	2196325.00	AT Par	2196325.00
	Description:- Double Walled Corrugated (DWC) HDPE Pipe with associated collars etc. as per RDSO Specification No. RDSO/SPN/204/2011 or latest anti-rodent & anti-oxidant and non-flame propagating type in 6 meters straight length and of size 120 mm outer dia & 103.5 mm inner dia. One of the following coupling arrangements should also be supplied with each pipe as per the site requirement. (1) Suitable snap fit coupler with rubber 'O- Ring (2) Spacers (3) Tees (4) Bend, (5) End-cap (The total quantity of above items is equal to no. of pipes supplied.) DWC pipe shall be marked at every 1 mtr length in such a way that manufacturer's name, vender name and year of manufacture can be easily identified. Color -Bright Orange; Min Weight = 4kg. Test Check by Consignee & Sample check by JAG officer.						
73	A	455.00	Running Metre	1060.27	482422.85	AT Par	482422.85
	Description:- Medium Class G.I. Pipes to IS: 1239 (Pt.)-2004 or latest; 100 mm dia. (int. Dia) 3.65 mm thick or above with coupling. G.I. pipes shall have ISI mark on it and contractor should submit manufacturer's test certificate of G.I. pipes.						
74	A	5.00	Numbers	1109769.23	5548846.15	AT Par	5548846.15
	Description:- SMPS based Integrated Power Supply System for Station with MSDAC as per RDSO/SPN/165/2012 version -3 or latest and Drg No. CSTE/6155/ 8 of 8. This includes transportation, installation and Commissioning of Integrated Power Supply System.						
75	Please see Item Breakup for details.				3648235.50	AT Par	3648235.50
	Description:- Microcontroller based programmable static switching module (Auto changeover) of Reliance Electricals Make or similar, with an at a glance LCD display suitable for break-less switching between two DC supplies as per attached technical specifications.						
76	A	5.00	Numbers	12101.30	60506.50	AT Par	60506.50
	Description:- Supply of Digital Earth Resistance tester three terminal type with LED display, 1999 count, KOICO model 5600 or any reputed make approved by engineer in-charge.						
77	A	5.00	Numbers	7465.80	37329.00	AT Par	37329.00
	Description:- Supply of Digital Insulation Tester 100V/250V/500V range of Model Rish insu 20 Make-RISHABH or MECO or similar.						
78	A	5.00	Numbers	14773.80	73869.00	AT Par	73869.00
	Description:- Digital low current clamp meter to measure current leaks (parasitic draw down to 1 mA) and electric loads from 1mA to 100 Amp AC/DC, Voltages from 0 to 600V AC/DC, small jaw size to measure current in signalling circuit, 4 digit display. Make -Fluke, GTC/KEW, Scope or superior with better specification as mentioned with all accessories like test lead, batteries and carrying case, sample may be got approved from consignee before supply.						
79	A	5.00	Numbers	36356.91	181784.55	AT Par	181784.55
	Description:- Digital Multimeter of Fluke 287 Industrial, True RMS with temperature, Analog bar graph, Digital display, Backlight, 1000V AC/DC, measure up to 10A, 20A for up to 30 seconds or Superior.						
80	A	5.00	Numbers	10437.12	52185.60	AT Par	52185.60
	Description:- Professional AC/DC clamp meter 3 ¾ digit, true RMS measurement, For Measurement of DC/AC currents up to 1000A, Voltage up to 600V, resistance up to 40 M, and frequency up to 1 MHz with a set of leads & carrying case. Model - DCM39A or equivalent/ higher.Make- Motwane /Stanley /Fluke/ Megger.						
81	A	5.00	Set	35317.28	176586.40	AT Par	176586.40
	Description:- Supply of Standard Tools set.						
82	A	5.00	Numbers	4515.84	22579.20	AT Par	22579.20
	Description:- Road Measuring Cycle, made of Aluminum with 05 digit counter, foldable with the bag.						
83	A	5.00	Numbers	578945.76	2894728.80	AT Par	2894728.80

**DYCSTE-C-BRC-S AND T/WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-BRC-154R-2025-26

Closing Date/Time: 21/07/2026 15:00

85	Description:- Supply of Cable Fault locator as per specification attached. Make- Tempo/Stanley Communication Model Sidekick Plus Kit Standard (1155-5001) or equivalent.															
84	A	15.00	Numbers	64396.94	965954.10	AT Par	965954.10									
	Description:- Supply of Microcontroller based Quad Cable Conductor's Earth Resistance Sensing Unit, for 24 nos. conductors with metering facility for one conductor at a time															
85	A	6000.00	Numbers	325.00	1950000.00	AT Par	1950000.00									
	Description:- Half Round DWC pipe 200mm ID SN 8 - 2 MTR Half Round - AS PER IS 16098 PART II (additional property RRNFP - ANTI RODENT AND NON-FLAMBLE) ,Colour-Black															
86	A	5.00	Numbers	349650.00	1748250.00	AT Par	1748250.00									
	Description:- Supply and installation of active lightning arrestor of class-A for building protection of ERICO 3000 Make franklin rod type or similar with the approval of engineer incharge which shall work on controlled streaming principle along with counter as per technical specification enclosed. Installation to be done by OEM authorized firm/Vendors.															
87	A	25.00	Numbers	5460.61	136515.25	AT Par	136515.25									
	Description:- Supply & Fixing of Stop Board, Block section limit Board, goods warning board and all other boards with contractors own material. The work shall be done as per instruction of Rly. Engineer incharge as per IRSEM.															
88	A	1205.00	Numbers	629.53	758583.65	AT Par	758583.65									
	Description:- Supply of Fiber/PVC Earth chamber with locking arrangements/ Supply of Fiber/SMC/FRP/RCC Earth Chamber.															
89	A	11.00	Numbers	18882.68	207709.48	AT Par	207709.48									
	Description:- Supply of Point Motor for 110VDC with 400v AC immunity as per IRS S:37/82.															
90	A	6.00	Station	3383.71	20302.26	AT Par	20302.26									
	Description:- Translation of Station Working Rules from english to hindi and framing out in DIGLOT form (or similar software) as per extant Rly practice. The required SWR in english will be provided by the contractor and has been covered separately in item no. Sch B 12 (i) and (ii)															
91	A	150.00	Set	134.89	20233.50	AT Par	20233.50									
	Description:- Making photocopies & binding of the SWR literature in English/hindi/Diglot form as per Railway practice.Inspection:															
92	A	2.00	Numbers	731600.00	1463200.00	AT Par	1463200.00									
	Description:- " Micro controller based (direct in dB reading) High Frequency Quad cable test setup for NEXT and Fext measurement. This set consist 1. Cross talk meter Model EPAX-H 1948UC (Near/far end unit)- 1 nos 2. Cross talk meter Model EPAX-H 1948UC (Near/far end unit)- 1 no as per attached specification."															
S.No.								Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit	
Schedule () B-Execution items															127251089.87	Above/ Below/P ar
1	Please see Item Breakup for details.				33100225.40	AT Par	33100225.40		Description:- Modification/Alteration in existing EI (Electronic Interlocking) as per latest RDSO guidelines/TAN. It includes- Design and modification in existing Interface and Interlocking circuits and logic of EI system including modification in the VDU(Video Display Unit)/ LCP(Local Control panel)/ CCIP (Control cum Indication Panel), Maintenance terminal (MPC), Data Logger, Relay rack wiring. The complete work should comply with the latest RDSO specifications and guidelines and as per approved SIP and circuit diagrams. All the material (Interface cards / relays / wiring material / connectors / fuses/communication devices etc.) shall be provided by the contractor. The work also includes the supply of modified Selection table, InterfaceCircuits, VDU/ LCP/CCIP diagram etc. to suit the modified SIP. It also includes the carrying out of FAT, SAT (as applicable) jointly with Railways and satisfactory commissioning. All plans/drawings/circuits etc. should be prepared on AUTO CAD, soft copy to be supplied on Pen Drive and 06 sets of hard copies also to be supplied.							
	Please see Item Breakup for details.				54046.47	AT Par	54046.47		Description:- Design of ST/LT/TOC/Square sheet/RCC (Three copy) for approval.							
3	B	1000.00	Set	360.64	360640.00	AT Par	360640.00		Description:- Design of existing Circuit Diagrams consisting wiring/Logic diagram, contact analysis, fuse detail, Input/output bit chart, VDU diagram, Interface etc. (Alteration) submission of Three paper copies for approval.							
	Please see Item Breakup for details.				2862966.39	AT Par	2862966.39									

**DYCSTE-C-BRC-S AND T/WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-BRC-154R-2025-26

Closing Date/Time: 21/07/2026 15:00

4	Description:- Installation, wiring, programming, testing and commissioning of E I equipment supplied as per supply item in schedule 'A' including transportation from Consignee's depot to site. The works and materials for installation, wiring, testing and commissioning, grouting, cutting of floors, walls, refilling of the same, re-plastering, required CC/ masonry works, fixing/ placing/ laying of insulated ladders/ casing-capping/ cable trays/ RCC/GI pipes / Cables, termination of cables with lugs/ connectors, painting, / lettering are to be provided/ done by the contractor for the equipments supplied vide Item of Schedule "A" of this contract. This also covers the networking of built in EI Data loggers of all the stations to monitor the system to any other places where desired by Engineer-in-charge. Note: Installation shall be comply with RDSO Technical Advisory Note No STE/E/TAN/3012 dtd 28.08.2014 or latest. Installation, wiring, programming, testing and commissioning of Operator VDU in Hot stand-by with Redundancy. Any Equipments/cards/Modules required for Hot stand-by with Redundancy shall be supplied & Installed by the Contractor. This also include supply of one no Godrej make operator chair model PCH7001 or better , one no. of composite computer & printer table (Godrej work station table or better) for keeping MT , one n o Godrej make operator chair model PCH7001 or better. Termination of indoor/ PIJF cables in relay room on relays, tag blocks, CT racks as per approved wiring diagram including alterations/ modifications as required at site. Soldering to be done at all required termination. Dressing/ lacing of wiring shall be done neatly with help of dressing thread / plastic self-lock strip of suitable size. The tools/ equipments/ materials/ simulation boards required for testing shall b e supplied / fabricated by contractor. This included replacement of modules/ cards/ LEDs/ equipments going defective during testing. Necessary power supply boards with required capacity plugs, sockets, surge & lightning protection boxes shall be supplied and installed by the contractor. 230V supply shall be arranged by Railways. In case supplies are required to be extended, from Power room / relay room then same shall be extended by the contractor with his own materials such as 1X16 sq. mm wires, cables, lugs,RCC/GI pipes, insulated ladders etc. After ST/LT testing, Factory Acceptance Tests (FAT) & Square Sheet testing system should be fault free while submitting to Railways, otherwise suitable necessary action can b e taken by Engineer-in-charge.							
5	Please see Item Breakup for details.		833331.63		AT Par		833331.63	
	Description:- Design of Circuit Diagrams consisting Wiring/ Logic diagram, contact analysis, fuse detail, Input/output bit chart, VDU diagram, Interface etc. submission of Three paper copies for approval.							
6	Please see Item Breakup for details.		30907.36		AT Par		30907.36	
	Description:- Design of Miscellaneous diagram consist of Floor Plan of Relay Room, Battery Room, Power Equipment Room, Data logger room, Power Supply Diagrams along with power supply calculation, Earthing Diagram, Power panel diagram, IPS wiring diagram , Auto change over diagram , Block circuit wiring diagram, Digital Axle counter wiring diagram and all other relevant drawings (Three copy) for approval.							
7	B	5.00	Set	9404.03	47020.15	AT Par		47020.15
	Description:- Design of Cable Route Plan submission of Three paper copies for approval.							
8	Please see Item Breakup for details.		154630.87		AT Par		154630.87	
	Description:- Supply of Circuit Diagrams consisting wiring/Logic diagram, contact analysis, fuse detail, Input/output bit chart, VDU diagram, Interface in Auto CAD in Pen Drive and Six set of Copies after approval.							
9	Please see Item Breakup for details.		21543.75		AT Par		21543.75	
	Description:- Supply of diagrams consist of Floor Plan of Relay Room, Battery Room, Power Equipment Room, Data logger room, Power Supply Diagrams along with power supply calculation, Earthing Diagram, Power panel diagram, IPS wiring diagram, Auto change over diagram, Block circuit wiring diagram, Digital Axle counter wiring diagram and all other relevant drawing in original tracing along with AutoCAD in Pen Drive and six set copies after approval.							
10	B	5.00	Station	1504.95	7524.75	AT Par		7524.75
	Description:- Supply of final Cable Route Plan as per laid cable duly measured at every 30 m clearly indicating distance of laid cable from fixed point of reference & indicating all track crossings and tail cables in original tracing along with Auto CAD in Pen Drive and Six set copies after approval.							
11	Please see Item Breakup for details.		303361.75		AT Par		303361.75	
	Description:- Design and supply of cable courage plan, location particulars, Cable termination rack particulars, cable meggering report, earth resistance particulars, Traction bonding diagram, 1/2 wire count sheet and any other drawing in AutoCAD in A3/A4 size. The contractor shall initially supply 3 sets of circuits complete for approval of Railways. Railways will return one set to the contractor duly approved withalterations/corrections, if any. The contractor shall incorporate Railway's alterations/corrections in the tracings without any deviation and submit all tracings complete in all respects to the Railways along with PENDRIVE & 4 sets of final approved drawings. This includes designing of cable coreage plan based upon I.P in consultation with engineer-in-charge For small/medium yards.							
12	Please see Item Breakup for details.		211705.84		AT Par		211705.84	
	Description:- Design and supply SWR Diagram on standard tracing paper of 95grams for each station. Corrected version of SWR plans after checked & approved by Rly's 25 Ferro copies will be supply for each of the plans.							

**DYCSTE-C-BRC-S AND T/WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-BRC-154R-2025-26

Closing Date/Time: 21/07/2026 15:00

13	Please see Item Breakup for details.	291649.10	AT Par	291649.10	
	Description:- Preparation of SWR including supply of SWR booklets (25 Nos. per station).				
14	Please see Item Breakup for details.	617071.44	AT Par	617071.44	
	Description:- "Preparation of Cable Route Plan of buried S & T Cables using Radio Detector 8200 GS or Similar model GPS Model and DGPS for Per Trench per Km. For existing cables as per the instruction of Engineer in-charge. Submission of report in KMZ file format, Soft Copy Only."				
15	B	5.00	Set	20170.51	100852.55
	Description:- Installation, wiring, testing, and commissioning of Data logger complete along with accessories using Contractors' own wiring & fixing materials as per the following configuration. (It includes loading of NETWORKING software, networking of data logger, installation of FEP & Fault diagnosis system). The requisite communication cable/channel for networking will be arranged by Railway. 1024 digital & 32 analog inputs/ 4096 digital & 32 analog inputs. (All the Indoor & outdoor gears wiring in cataloged included in this along with laying 230V supply cable from IPS room, 12 core cable from auto change over for monitoring supplied.) Note- It included logging of all gears as per site incharge.				
16	Please see Item Breakup for details.	1413886.63	AT Par	1413886.63	
	Description:- Foundation, Erection & Installation of CLS without route indicator.				
17	B	20.00	Numbers	673.88	13477.60
	Description:- Fixing of Junction type Route Indication 1-Way/2-Way/3- Way on the top of the signal post.				
18	B	18.00	Numbers	2277.96	41003.28
	Description:- Fixing of Calling-on Signal/A-Sign/AG-Sign unit on signal post. The item includes fixing of Co- On signal /'A' sign/ 'AG' sign unit on signal post with bracket, hood etc. Item includes supply bracket & fixing materials etc. by the contractor. The item also includes termination of cables & wiring inside Co- On signal /'A' sign/'AG' sign unit as per standard practice. Note- This Item must be operated individually, Not to be operated in Installation/Erection of CLS.				
19	Please see Item Breakup for details.	330577.17	AT Par	330577.17	
	Description:- Foundation, Erection & Installation of Shunt Signal.				
20	B	21.00	Numbers	1761.15	36984.15
	Description:- Erection of Position Light shunt signal on Offset bracket on main signal.				
21	B	64.00	Numbers	20398.51	1305504.64
	Description:- Fixing of Electrical Point Machine on the extended sleepers at points as per std. practice and as per RDSO Drg No. SA 91 51-52 or 9710 or 9161 as per section of rails used. Item includes fixing switch extension bracket, providing insulation for switch extension bracket, fixing ground connection, adjusting opening of the switches and adjusting the point machine with crank handle. The item also includes - (i) Complete material for installation like ground-connections, switch extension brackets, point insulation material, I pipes, wiring materials, various fixing nuts & bolts including castle nuts, spring washers (ii) All smithy & fitting works required at site for complete installation. (iii) Installation of gauge tie plate & providing insulation for gauge tie plate (Insulation in William Stretcher Bar will be Provide by Railways). (iv) Wiring inside the point machine, insertion and termination of tail cable in point machine and junction boxes / location box /cable hut as per extant practice on WR and the instruction of Railway Engineer at site. (v) Supply and fixing of suitable size GI pipes with flange for taking cable into point machine. Note ; The ground connections shall be suitable to the Point Machines as specified by Engineer-in-charge and shall be suitable to the point lay out i.e. 60 Kg. / 52 Kg / 90R as per yard layout. Electrical Point Machine and M-6 / Screw less terminals will be supplied by Railways / covered in Schedule separately.				
22	B	35.00	Turn-out	2972.24	104028.40
	Description:- Refixing of electrical point machine, ground connection during phase working (No interlocked working) after removing the existing fitting if any, adjustment if necessary, cable termination, wiring, testing and commissioning of electrically operated point, fixing and connecting point indicator on derail switch if necessary. The work shall be done as per extant practice on WR & the instruction of Railway Engineer at site.				
23	B	163.00	Per Track Circuit	6083.66	991636.58
	Description:- Fixing and wiring of DC track circuit equipments i.e. track feed charger, resistance, track relay, battery, PPTC fuses etc., in the Apparatus Case and battery box as per standard practice. Termination of tail cable on M 6 / Screw less terminals WAGO or FINOLEX or similar approved make terminals/ fuse blocks / HRC fuse. Item includes testing /commissioning of track circuit. Complete wiring material (including PPTC fuses) which are not covered in Schedule will be supplied by contractor. (Supply of Track feed battery charger, track feed battery, resistances & 'B' type choke & Track relays will be supplied by Railways / covered in Schedule separately).				
	B	163.00	Set	6742.42	1099014.46

**DYCSTE-C-BRC-S AND T/WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-BRC-154R-2025-26

Closing Date/Time: 21/07/2026 15:00

24	Description:- Installation of DC track circuits covering points zones also. The item includes provision of continuity bonds of seven strand PVC jacketed wire/ GI wire 8 SWG on rail joints after drilling bond-hole of 7.0/7.1/7.2mm Dia (double bond with sleeves and rail clips are to be provided at each rail joint), insertion of insulated block joint, fixing of Track lead Junction box on MS angle two numbers of size 40X40X5 mm 1200 mm length for track feed/ jumper / track relay ends of track CCTs (as per double TLJB arrangements) and also for fixing jumper cables as per insulation diagram WR Drg No. CSTE/6055 and standard practice, making rail connections through suitable insulated sleeves from Track lead Junction box at TF, jumper & TR end with seven strand PVC jacketed wire /GI wire 8 SWG, rail clips for fixing bond wire on the TLJB as per standard practice, termination of tail cables on bootleg terminals etc. TF/TR wiring shall be fixed on the suitable arrangement on PRC sleepers with the help of hooks. Hooks shall be provided on PRC sleepers with the help of suitable steel bracket. This item also includes fixing & supply of channel pins etc. The item also includes supply of MS angles/ trestles, GI wire 8 SWG / seven strand PVC jacketed wire, hooks, rail clips etc.						
25	Please see Item Breakup for details.	783842.20	AT Par	783842.20	Description:- Provision of Field accessories of DC Track Circuits		
26	B	550.00	Numbers	346.01	190305.50	AT Par	190305.50
	Description:- Charging of Lead Acid Batteries (2V 80AH) with contractors' own battery grade sulphuric acid and distilled water with a minimum of two charge-discharge cycles, installation of charged batteries in groups & their connection & wiring. The work shall be done as per the extant practice of W.Rly & instruction of the Engineer-in-charge. Detailed measurements of initial charging shall be recorded jointly by the contractor & Rly's site-in-charge.						
27	B	165.00	Set	185.47	30602.55	AT Par	30602.55
	Description:- Provision of bonding with GI wire 4mm Dia (8 SWG) for track jumper & fish plate joints bonds. This will include drilling of 7.0/7.1/7.2 mm Dia holes in rails (4 Nos.) and provision of two jumpers for each bond, clipping of bonds etc. with contractors own tools as per instruction of Rly.Engineer at site.						
28	B	724.00	Numbers	1280.01	926727.24	AT Par	926727.24
	Description:- Erection, Fitting and Rail connection of Track Lead Junction Box on two supports (M.S.angle) with contractor's fixing material and PVC jacketed wire for track lead connection including angles of size 40 x 40 x 5 mm 1200 mm length This will include drilling of holes for track lead/side connections on rail. The work shall be done as per Drg. No. S&T/Const./JHS/T 115 & instructions of Rly engineer at site.						
29	B	10.00	Set	519942.20	5199422.00	AT Par	5199422.00
	Description:- Supply of Single Section Digital Axle Counter (SSDAC) with two detection point with reset arrangement and vital relay box as per RDSO/SPN/177/2012 Ver.03 or latest. Each set consist of the following - (a) High frequency TX coil and RX coil (Each set consist of web mounting type TX coils-2 Nos. RX coils-2 Nos. along with 10 mtr cable- 2 sets), (b) Track side digital axle counter unit-2 Nos. (c) 24V 6F/4B, 1000 ohm "Q" type relay box duly wired-2 Nos. (d) Clamp with deflector plates and hardware etc-4 Nos. (e) Reset Box-2 Nos. (f) Mushroom/Location Box suitable for housing Track side equipment (2 No.s). Transportation, Installation, Testing & Commissioning - Transportation, Installation, Testing & Commissioning of equipment field training (one man day per set) at site or as desired by Site Engineer. These includes - (a) Foundation and erection of Track side Equipment i.e. Mushroom/ Location Box (if required). This includes supply of all associated materials. (b) Individual Earthing of all detection Point for the OEM recommended earth value certified by OEM Site Engineer. This includes supply & installation of maintenance free earth materials and exothermic bonding and other connecting cable etc. as per Railway practice (As per RDSO Spec. No. RDSO/SPN/197/2008 or latest. Resetting equipment to be connected to the EI Ring earth. (c) Installation to be carried out by OEM certified Engineer. 3) Tool Kit consisting of - (a) Digital True RMS multi meter of suitable make for above Digital Axle Counter System with probe set-1 No. (b) Train Simulator (High frequency)- 1 No. (c) Extender Card-1 No. (d) Dummy wheel-1 No. (e) Different type of spanners suitable for above Digital Axle Counter- 1 Set. (f) Torque wrenches suitable for the above-1 No. (g) Screw driver set suitable for the above-1 Set. (h) Carrying Bag for Tools-1 No. (i) 6 Nos. Electrostatic Discharge Wrist Band for cards/ modules protection.						
30	B	240.00	Numbers	345.76	82982.40	AT Par	82982.40
	Description:- Fixing & wiring of QNA1 / QNA1K relays for GPR Circuit in apparatus case as per Standard practice. Fixing and wiring material shall be supplied by the contractor.						
31	B	29.00	Numbers	5186.41	150405.89	AT Par	150405.89
	Description:- Fixing of KLCR and its without this includes supply of MS sheet box for fixing of KLCR relay along with push button etc. (KLCR will be supplied by Railway).						
32	B	45.00	Numbers	8748.18	393668.10	AT Par	393668.10
	Description:- Installation of Cable Termination Racks Assembly complete including wall supports, scaffolding, 8 way/ARA terminals /Screw less connectors, Tag blocks & other necessary accessories etc. The work shall be done as per approved plan, extant practice on WR & the instruction of Rly engineer at site.						
	B	76.00	Each Module	871.94	66267.44	AT Par	66267.44

**DYCSTE-C-BRC-S AND T/WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-BRC-154R-2025-26

Closing Date/Time: 21/07/2026 15:00

33	Description:- Installation wiring testing and commissioning of Fuse changeover system (FACS). This includes the provision of a common Buzzer & indication at the ASM Room & ESM Duty Room and the painting of fuse details. This also includes the fabrication of a frame for the installation of FACS at the Station/ LC gate where the installation of relay racks is not feasible.						
34	B	8.00	Per Telephone	2139.20	17113.60	AT Par	17113.60
	Description:- Wiring, installing of Magneto / DTMF telephone in ASM office, at locations, Relay Room, Point locations on both directions and siding Point Control locations as per instructions of Engineer In-Charge for traffic purpose.						
35	B	1205.00	Numbers	5091.54	6135305.70	AT Par	6135305.70
	Description:- Installation of Earth Electrode including MS flat for clamp etc. and connection to signalling equipments, lever frames, apparatus cases, signal, relay rack, block instrument, etc. as per technical specification given. This item includes digging of pit in earth 3 M deep & fixing earth electrode pipe, casting of cement concrete enclosure & cover as per RDSO/SPN/197/2016. Soil treatment to be done as per std. practice. This item includes provision of MS Flat, Earth lead wires and Soldering of lead wires. The other end of the wire is to be connected to block equipment, power equipment, cable sheath, and signals etc. as per site requirements. 7 strand GI wire shall be used as earth lead wire. (Supply of earth electrode is covered in other Item).						
36	B	26000.00	Numbers	21.46	557960.00	AT Par	557960.00
	Description:- Fixing of ARA Terminals /Screw less connectors and fuse blocks on phenolic laminated sheets and fixing by stainless steel/brass nuts & bolts. This includes provision of two additional holes on the board on either side for cable conductor entry.						
37	B	14500.00	Numbers	22.35	324075.00	AT Par	324075.00
	Description:- Termination of outdoor cables, main cables laid in location boxes, Cable termination rack etc. at both ends on ARA terminal or on 8 way terminals or on screw less connectors. Both ends of a cable core terminated shall be counted as one terminal. This includes all associated works of pulling out the cable from underground, peeling off insulation, dressing of cable core supported on string rod with contractor's own material. The work shall be done as per instructions of Rly engineer at site.						
38	Please see Item Breakup for details.			82806.71	AT Par	82806.71	
	Description:- "Painting of two coats of synthetic enamel paint over one coat of primer on the following after scraping & cleaning surface wherever necessary with contractor's own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in- charge. Epoxy paint will be supplied by Railways. NOTE-The paint and primer should be from Asian Paints/ Nerolac / Dulux / Berger. The primer / enamel paints (Aluminum synthetic, black enamel, brilliant white and yellow) will be as per (IS 5660 of 1970) / (IS 2932 of 1974)."						
39	B	5.00	Station	3410.82	17054.10	AT Par	17054.10
	Description:- Lettering & Numbering of detail and description writing of on relay rack, relays, cable termination rack, battery & power equipments, IPS, operating panel, axle counter etc. constituting entire system with contractor's own paint and writing material. The work shall be done as per extant practice on W.R Rly & instruction of Rly engineer at site.						
40	B	50.00	cum	1968.19	98409.50	AT Par	98409.50
	Description:- "Providing brick masonry in ratio 1:6 cement and mortar including plastering with 1:4 cement and sand mixture both sides, 20 mm thick each with contractor's owned class II bricks, including excavation, curing, grouting, bolting etc. wherever required. Bricks sand and cement to be supplied by the contractor."						
41	B	50.00	cum	5976.09	298804.50	AT Par	298804.50
	Description:- Cement concrete work for miscellaneous items in the ratio 1 : 3 : 6. Item includes excavation, ramming, curing and plastering with cement & sand mixture (aggregate not exceeding 3.8 cm.) (Aggregate cement & sand to be supplied by the contractor).						
42	B	65.00	cum	147.17	9566.05	AT Par	9566.05
	Description:- Earthwork in filling in embankment, guide bunds, around buried type abutments, bridge gaps, trolley refuges, rain bunds if provided, platforms etc. with earth excavated from outside railway boundary entirely arranged by the contractor at his own cost as per RDSO's latest guidelines and specifications and special condition of contract including all leads, royalty, lifts, ascents, descents, crossing of nallahs or any other obstructions. The rates shall include all dressing of bank to final profile, demarcation and setting out of profile, site clearance, removing of shrubs, roots of vegetation growth, heavy grass, benching of existing slope of old bank, all handling/re-handling. Taxes, Octroi and royalty etc. as a complete job. Cut trees shall be property of railways and to be deposited in the railway godown unless specified otherwise in the Special conditions of contract.						
43	B	230.00	MT	431.08	99148.40	AT Par	99148.40
	Description:- Transportation of S&T material leading up to 1 Km including Loading from Starting point, unloading & Stacking at destination.						
	B	1000.00	Hour	1084.88	1084880.00	AT Par	1084880.00

**DYCSTE-C-BRC-S AND T/WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-BRC-154R-2025-26

Closing Date/Time: 21/07/2026 15:00

44	Description:- Hiring of JCB Machine (in good working condition) for leveling and dressing ground/dismantling structures including disposal of debris through dumpers etc. with contractor's labour, JCB machine, machine operator, fuel, etc. The contractor shall arrange road permit for vehicle for all the states of operation, as per instructions of engineer incharge and vehicle shall not be more than three years old.						
45	Please see Item Breakup for details.	2588215.30	AT Par	2588215.30			
45	Description:- Excavation and Casting of Apparatus Case foundation with contractor's own materials including cement and anchor bolts of standard size. The required scaffolding Ferma etc. for Casting of foundation will have to be brought by the contractor at his own cost.						
46	Please see Item Breakup for details.	370751.50	AT Par	370751.50			
46	Description:- Installation of Apparatus Cases with miniature 'E' type lock on C C foundation. This includes filling of location foundations with river bed sand and plastering on top of the sand. 'E' Type lock will be provided by Railway.						
47	B	600.00	Numbers	5118.52	3071112.00	AT Par	3071112.00
47	Description:- IS13410: Glass Reinforced Polyester Sheet Moulding Compounds (SMC) Size of Sheet - (1000x1000x8)						
48	Please see Item Breakup for details.	764769.70	AT Par	764769.70			
48	Description:- Fabrication and fixing of SMC sheet in location box by providing all fixtures as per Railway Drawing including fixing of PVC coated string rods at the back side for cable support with contractor's own materials. The work shall be done as per Drg and arrangement similar to SK 783-1/2. With latest alterations & as per instructions of Rly engineer at site. Note- SMC sheet will be taken in place of phenolic laminated sheet.						
49	Please see Item Breakup for details.	100870.05	AT Par	100870.05			
49	Description:- Painting of two coats of synthetic enamel paint over one coat of primer on the following after scraping & cleaning surface wherever necessary with contractor's own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in- charge. Epoxy paint will be supplied by Railways. NOTE-The paint and primer should be from Asian Paints/ Nerolac / Dulux / Berger. The primer / enamel paints (Aluminum synthetic, black enamel, brilliant white and yellow) will be as per (IS 5660 of 1970) / (IS 2932 of 1974).						
50	B	295.00	Numbers	121.92	35966.40	AT Par	35966.40
50	Description:- Lettering/ Numbering Termination particulars, equipments names etc., legibly and neatly inside location boxes. This includes supply of paints of Asian Paints/ Nerolac / Dulux / Berger make. (Full Case).						
51	B	115.00	Numbers	83.17	9564.55	AT Par	9564.55
51	Description:- Lettering/Numbering Termination particulars, equipments names etc., legibly and neatly inside location boxes. This includes supply of paints of Asian Paints/ Nerolac/ Dulux / Berger make. (Half Case)						
52	B	12000.00	cum	807.37	9688440.00	AT Par	9688440.00
52	Description:- Excavation of cable trench as per cable route plan, 1 Mtr. deep and of 0.3 Mtr. to 0.6 Mtr wide advised by Engineer-in-charge alongside the track in normal (all type) soil/strata, conforming to distances as per cable route plan and refilling. This work includes clearing of route from bushes etc., covering of cable laid in trench by loose soil for a layer of 50mm thickness approximately before covering by bricks. The work shall be done as per the extant practice on Western Railway and instructions of Railway Engineer at site. In case 1m depth of trench is not achievable due to site conditions, specific approval of JA grade officer will be required for each site where trench depth of 1m is not possible. Without the approval of JA Grade officer, no payment for trenching will be made for trench depth less than 1m.						
53	B	8460.00	cum	838.97	7097686.20	AT Par	7097686.20
53	Description:- Digging of trench 1.2 M deep from rail flange/ road level and, 0.3 Mtr to 0.6 Mtr wide and back filling after placing of DWC/ RCC/GI pipe. (Placing of DWC/RCC/GI pipe covered separately).The ballast disturbed be screened and dressed as required by Engineer-in-charge or his representatives and road tarred immediately. For track crossing, Drg. No. CSTE/3644 Pg.7 of 11 and for Road Crossing, Drg. No. CSTE/3644 Pg. 5 of 11 are to be followed.						
54	B	400.00	cum	488.40	195360.00	AT Par	195360.00
54	Description:- Digging of cable trench 0.3 Mtr. Deep and 0.3 Mtr. Wide on Asphalted Platform / Road / Hard rocky area. Refilling with earth leveling of trenches & restoring the original surface of trenches.						
55	B	190.00	cum	417.89	79399.10	AT Par	79399.10
55	Description:- Cutting of Hard rock in trenches /Preparation of cable way/Chase 150 mm wide at the bottom and 300 mm deep in hard rock (Drg prepared by contactor & approved by Engineer In charge) for laying of S&T cables where minimum required depth not possible & which is verified and agreed by Engineer In charge of the work or his representative shall be made as per Drg. No RE/S&T/ALD/SK/301/85. Refilling of th same with concrete mixture of 1:3:6 from top of the cable way/ chase. Payment of concrete will be made separately through a separate item in the schedule of work.						

**DYCSTE-C-BRC-S AND T/WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-BRC-154R-2025-26

Closing Date/Time: 21/07/2026 15:00

56	B	400.00	Running Metre	445.92	178368.00	AT Par	178368.00	
	Description:- Providing chase in hard rocky soil for laying of S&T cables where optimum depth (0.5m) is not possible and which is verified and agreed by engineer-in-charge. After laying of cables, it should be covered with PCC work in ratio of 1:3:6.							
57	B	5000.00	Metre	1120.38	5601900.00	AT Par	5601900.00	
	Description:- Horizontal direction drilling/boring without damage of surface road using Auger Machine. The bore shall be 150 mm Dia & shall be done at the depth of minimum 1200 mm from the ground level. The ground level shall be considered ignoring the bank height of the bank of the road. The length of the bore shall be minimum 4 Mtr long. The HDD with or without HDPE pipe as per direction of Engineer In charge. Note- HDPE pipe supply is taken as separate item. This item also includes cable laying (HDD boring).							
58	B	5.00	Numbers	11373.89	56869.45	AT Par	56869.45	
	Description:- Digging of cable pit (min2x2x1m) as per instruction of Site Engineer, supplying and filling of sand before and after coiling the cables, covering top of the cable pit with stones and providing brick masonry on all four sides of the cable pit and plastering thereafter.							
59	B	4200.00	Running Metre	31.33	131586.00	AT Par	131586.00	
	Description:- Placing of DWC/RCC pipes along with collars in trenches at places of track and road crossings, platform cuttings etc. also for straight cable laying. (Cable laying is covered separately.)							
60	B	390.00	Running Metre	378.35	147556.50	AT Par	147556.50	
	Description:- Laying and fixing of Medium class GI pipes 100 mm Dia (4.5 mm thickness) as per IS 1239 (Part 1) 2004 or latest with coupling on culverts/bridges, perforated at a distance of 20 cm or less with 10 mm Dia hole, or at any other locations as decided by Site Engineer. The GI pipe is to be filled with chattered compound. It includes supply of all material required for fixing arrangement. Contractor will also supply flexible/corrugated HDPE pipe at the end of GI pipe to protect the cables from sharp edges and sudden bends. The laying and fixing to be done as per RDSO drawings No. SDO/cable laying/011 and SDO/cable laying/012, issued vide RDSO document No. RDSO/SI/G/2010 Version 1.1 dated 04.02.2014, or latest.							
61	B	395000.00	Running Metre	8.84	3491800.00	AT Par	3491800.00	
	Description:- Laying of S&T Cables of various cores/ pairs/ quads in trenches/ GI pipes/ RCC pipes/ DWC pipes/ Trucking. This also includes laying of cables in track crossings & road crossings. Item includes provision of labels of colored plastic adhesive tapes or any other identifiable material on each cable to give the cable number at each G.P.(Cables will be daggered before and after its laying by contractor under supervision of Railway Representative and he will submit the meggering report of each testing). Length of the cable laid includes the length of the cable coiled for termination purposes.							
62	B	720.00	Numbers	394.01	283687.20	AT Par	283687.20	
	Description:- Supply and installation of RCC cable route marker engraved and painted on both side along the route every 50 mm and route diversion as per Drg. No 4014/00/CC4 or latest/ Stone marker.							
63	B	3.00	Set	954666.27	2863998.81	AT Par	2863998.81	
	Description:- Supply, Installation Testing and Commissioning of block proving by digital axle counter (BPAC) using UFSBI for Single line operation as per RDSO specn. No IRS/S/105/2012 (ver.0) it comprises of auto change over facility for quad and OFC working. Necessary modem for quad and ofc should be supplied along with auto changeover arrangement details are as follows. (i) Universal fail safe block interface (UFSBI) with complete accessories as per Rdso specn no. IRS/S/104/2012 (ii) block panel as per Rdso s-32019 (iii) relay rack with locking and sealing arrangement duly wired as per Rdso: s: 32020 along with complete relays. (iv) Block telephone with accessories as per Rdso/spn/191/2005. (v) Automatic media changeover along with additional modem as per manufactures specification for BPAC using ufsbi (item no i) for supply of above items. Unit will be in set consisting of 02 no.s of each items. Material to be supplied as per instruction of incharge.							
64	Please see Item Breakup for details.				519181.35	AT Par	519181.35	
	Description:- Installation, Wiring and testing of Integrated Power Supply System. This includes power distribution connection to bus bars and relay racks in the room with contractor's own wiring materials and fabrication and fixing of AC/DC power distribution board made on 8mm thick SMC sheets or any standard make with connections suitable for 32 A. Wiring to be done considering site requirement, depending upon the load with suitable wires, lugs & glands as per instructions of Engineer-in-charge. The work includes installation of ELD's, fixing & wiring of change over switch(program switch) for selection of DG set supply (DG1 & DG2) and wiring of change over switch (program switch) for selection of mains or DG supply. This item also includes supply & fixing of ladder along the wall for carrying power supply wires/cables from IPS room to Relay room/power room etc. Any masonry work required will be carried out by contractors own material.							
	B	120.00	KVA	1044.93	125391.60	AT Par	125391.60	

**DYCSTE-C-BRC-S AND T/WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-BRC-154R-2025-26

Closing Date/Time: 21/07/2026 15:00

65	Description:- Provision of Power supply arrangement, with contractors own Generating sets, capacity 10 KVA or above as per requirement of Station Signalling load, for testing of Signalling system in the case of irregular Local power supply /under capacity AT,s supply system at station.{per Set/Day}.						
66	B	70.00	Kg	115.85	8109.50	AT Par	8109.50
	Description:- Rubber Mat for Power Equipment room. (5mm thick).						
67	Please see Item Breakup for details.			5342687.08	AT Par	5342687.08	
	Description:- Supply, Installation, Testing and Commiioning of fire alarm system as per RDSO spec. No. RDSO/SPN/217/2021 version 2 or latest.						
68	B	15.00	Numbers	58955.58	884333.70	AT Par	884333.70
	Description:- Installation of Microcontroller based Quad Cable Conductor's Earth Resistance Sensing Unit, for 24 nos. conductors with metering facility for one conductor at a time						
69	B	55.00	Numbers	1062.82	58455.10	AT Par	58455.10
	Description:- Dismantling/Releasing of the existing outdoor signalling items such as CLS unit with posts alongwith base, lever frames (5 levers set), battery box with equipments, location box with equipments, block instruments, point machines, mechanical point, AFTC/DAC, Relay rack, CT Rack alongwith Relay rack. IDF with all accessories. All these unit will be counted as one no. along with their accessories. This includes the cost of transportation of released material from site to Railway Scrap Depot. (No. to be read as per Signal/Track device/Location/Point/CT Rack/RR etc)						
70	B	80000.00	Numbers	6.34	507200.00	AT Par	507200.00
	Description:- "Provision of ferrules on Cable, As per the latest guideline of Railways, which includes all associated work like printing, identifying, fixing, etc.(POLICY NO-02/2024/latest)"						
71	Please see Item Breakup for details.			1928973.84	AT Par	1928973.84	
	Description:- Supply and Installation of Solar Power system for 110volt/300AH battery bank load as IPS System. Each panel containing the following items.						
72	B	222.00	Per Detection Point (DP)	14940.71	3316837.62	AT Par	3316837.62
	Description:- Installation of track device (double rail contact) including digging of trench, track crossing, laying of anti-rodent, anti-oxidant & non-flame propagating type Double Walled Corrugated (DWC) pipe as per IS- 14930 part- I or II or latest and all other accessories as per site requirement to be for laying of transmitter and receiver cable. The item also includes installation of EJB / Track side Electronics including foundation & earthing as per OEM's guidelines and Technical requirement & specification with their own material. NOTE- Installation / programming / configuration / commissioning of Axle counter equipment to be carried out in accordance with latest guidelines issued by Railways/RDSO preferably by Authorized representative of OEM.						
73	B	12.00	Numbers	11442.32	137307.84	AT Par	137307.84
	Description:- Installation of Central Evaluator of axle Counter, wiring from CT rack to Central Evaluator, installation and wiring of the reset box, LV box (if required) and associated power supply wiring. This includes supply of shielded cable of required conductor size for wiring between CT rack to evaluator rack, all other wires, power supply cable and wiring materials. The power supply cable from power room to Central Evaluator should not be less than 10 sq.mm PVC wire. Earthing as per OEM's guidelines & specification with their own material. This also includes painting and writing work on evaluator as per site requirement. NOTE- Installation /programming / configuration / commissioning of Axle counter equipment to be carried out in accordance with latest guidelines issued by Railways/RDSO preferably by Authorised representative of OEM.						
74	B	20.00	Numbers	3379.72	67594.40	AT Par	67594.40
	Description:- Shifting of existing half location boxes coming in the alignment of new line. The work includes losing & removal of soil around location boxes by excavating soil around foundation, making of pit for shifting of location box horizontally opposite to railway This includes loosening of existing cable coils without any damage. The excavated soil shall be back filled after shifting of Location Boxes. Location box shall be shifted by push method with the help of jacks or by crane by contractors own expenditure under instructions of engineer in-charge at site. The work may affect train working hence the work shall be done as per margin only or during traffic block only.						
75	B	30.00	Numbers	4369.93	131097.90	AT Par	131097.90
	Description:- Shifting of existing full location boxes coming in the alignment of new line. The work includes losing & removal of soil around location boxes by excavating soil around foundation, making of pit for shifting of location box horizontally opposite to railway track up to 0.5 to 1.0 mtr. This includes loosening of existing cable coils without any damage. The excavated soil shall be back filled after shifting of Location Boxes. Location box shall be shifted by push method with the help of jacks or by crane by contractors own expenditure under instructions of engineer in-charge at site. The work may affect train working hence the work shall be done as per margin only or during traffic block only						
	B	30.00	Day	10400.00	312000.00	AT Par	312000.00

**DYCSTE-C-BRC-S AND T/WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-BRC-154R-2025-26

Closing Date/Time: 21/07/2026 15:00

76	Description:- Tracing & Securing buried under ground S&T Cable including OFC by team of minimum 5 persons with dedicated vehicle (MUV) in a team (minimum one technician/jointer), during Eng. Digging work by JCB's - to provide supervisory work like marking, shifting, securing, jointing, restoring etc. (Cable joints & termination taken as separate schedule item). Information for deputing team for above work will be provide by Railway Engineer in charge 08 ours prior to requirement. They will pre check route and will do chuna marking for digging work. Note - Necessary arrangement of Team / required material movement to the desired location as per instruction of engineer in charge to be provide by contractor. The contractor need to arrange "n" nos. of teams as per Railway Requirement. (Unit "Day" Means "Per Team Per Day")						
77	B	20.00	Per Unit	10414.00	208280.00	AT Par	208280.00
	Description:- Temporary restoration of Quad /PIJF Cable by way of providing Cable Joints at required location. (Thermo shrinkable joint kit used as per RDSO Spec no. IRS TC 77/2010 Rev - 2 or latest suitable to 6 -quad cable of spec no. IRS TC - 30/2005, Ver - 1, Amed - 4 or latest will be arranged by the contractor), The Joints needs to be safely placed under ground or as suitable to Engineer in charge. (a location means Two joints) Note: Exact location of joints in Reference to OHE Mast & Center of Track /Geo coordinates needs to be properly documented and reported to Engineer in charge. (Unit "Per Unit "means "Per location")						
78	Please see Item Breakup for details.			136800.00	AT Par	136800.00	
	Description:- Shifting & Termination of Signaling cables in S&T gears. It involves disconnection of Old main cable and connection of new main cable (during shifting /NI/Pre-NI).						
79	B	650.00	Per function	1218.24	791856.00	AT Par	791856.00
	Description:- Correspondence Test of Signalling Gears (Points, Signals, Track Circuits, ICC, BPAC etc.) during Rolling Block /Disconnections/ NI Note: Contactor/Firm should provide sufficient Manpower with Workable tools & Equipments. (Unit per Function to be read as 'Per Gear').						
80	B	50.00	Numbers	6462.71	323135.50	AT Par	323135.50
	Description:- Installation of Microcontroller based programmable static switching module (Auto changeover).						
81	B	8.00	Kilometre	5178.39	41427.12	AT Par	41427.12
	Description:- Transportation and Laying of HDPE pipe as per approved cable route plan in the excavated trench, taking due care while transporting and laying the same in the trenches or other protective works. Both the end of duct should be sealed with end plugs before laying and should remain sealed till blowing is done.Note- laying Duct as per HQ polcy dated 01.01.2025						
82	B	14.00	Kilometre	8009.88	112138.32	AT Par	112138.32
	Description:- Blowing of OFC through HDPE duct & protective work (elicited in above item) already provided. Where it is not feasible to blow OFC due to curves, road/track crossings, bridges or for any other reason, OFC shall be drawn /laid manually as per standard procedure. All the equipments and machinery required shall be arranged by the contractor at his own cost. In case OFC is to be laid adopting 'Direct in trench' method then this item shall be paid as per accepted rate of item no.(6 h) of this schedule. OFC and HDPE pipe shall be supplied by the railway.						
83	B	15.00	Numbers	5991.30	89869.50	AT Par	89869.50
	Description:- Splicing of laid under above items OFC cable and making the splice joint in dust free environment with contractor's own equipments and labour. Straight joint enclosure (SJC) is covered under schedule 'A' remaining all required materials, tools , plants shall be arranged by the contractor. splicing shall be started from one end and each splicing shall be monitored after splicing and after closing the enclosure for all the fibers from one central location by contractor's engineer with his own OTDR and optic Talk set with railway engineer , trace for the fibers shall be taken and signed jointly, if any fibred splice shows high loss/lossy event, the same shall be redone before completion of splicing work. The splice loss shall be as per the policy/technical circulars issued by the railways from time to time.						
84	B	6000.00	Running Metre	2140.71	12844260.00	AT Par	12844260.00
	Description:- Supply placing and covering of RCC duct Size 290 mm for signal cable laying as per RDSO No No.: STS/E/Cable-Laying Practices Vol-IV.						
85	B	2.00	Station	50000.00	100000.00	AT Par	100000.00
	Description:- Validation of new inputs, modification of database, updating of simulation software and exception reports						
86	Please see Item Breakup for details.			1277500.00	AT Par	1277500.00	
	Description:- Earthing of armour of quad cables on copper busbar for three layer earthing of quad cables , it included copper strip green earth wire from quad cable armory to copper strip and green earth wire from copper strip to earth rod along with suitable termination material and soldering						
	B	5.00	Numbers	69163.10	345815.50	AT Par	345815.50

**DYCSTE-C-BRC-S AND T/WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-BRC-154R-2025-26

Closing Date/Time: 21/07/2026 15:00

87	Description:- Manufacture and Supply of PowerDistribution Panel for IPS usingHylem sheet 10 mm as per siterequirement and erecting it usingMS angle clamp 65mm X 65mmX 8mm, HRC fuse block, Mainscontrol switch, ammeter by-passswitch, voltmeter, ammeter, PBTterminals 60mm and wiring thesame using wire PVC 7/1.40mmas per approved power diagram.This also includes termination ofpower cables using teakwoodclamp of size 25mm X 60mm X150mm on a base plank of 25mmthick 150mm width. (MS angles65mm X 65mm X 8mm, Hylemsheet of 10 mm Thickness, as persite requirement, bolt and nutsrequired for manufacture ofpower panel, HRC fuses, box and carriers, teak wood clamp, wire7/1.40mm, PVC casing andcapping and all othermiscellaneous materials will besupplied by the contractor,Supply of PBT terminals 60mm isnot included in the schedule.)							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () C-Execution items							54988648.20	Above/ Below/P ar
1	C	180.00	Per Detection Point (DP)	305492.49	54988648.20	AT Par	54988648.20	
	Description:- Supply of Multi Section Digital Axle Counter (MSDAC) for mentioned detection Point by the purchased & track Section as per SIP, complete with all accessories, cable required with each track device & card viz. Axle detectors, Track Side Electronics/DAC field units, Central Evaluator (Central Evaluator unit should be housed in a pre-fabricated rack to be supplied along with the system), reset unit, Relay unit, Event Logger & Diagnostic terminals, etc. Required for different Detection Points & Track Sections as per RDSO Specifications No. RDSO/SPN/176/2013, Ver.3 or latest and OEM/ manufacturer's specification and as per Annexures. (Quantity 01 No. = 01 DP) Inspection Authority: RDSO. Note - As per WR's Policy No 03/2024 Para No. 3.4.2 .e .iv "VDU/Reset box can be used for resetting. At Stations having more than 10 Track sections, the Railway propose to use a separate VDU-based resetting system. Such a VDU-based system if using a PC, it must be industrial grade".							

3. ITEM BREAKUP

Schedule	Schedule A-Supply of Items						
Item- 2	Supply, Installation and Commissioning of EI VDU (Visual Display Unit, 4K with all suitable accessories Compatible to EI Interlocking in Safe Mode 24x7 at controlling station. The item must comply minimum following specification- (a) Screen Size (Diagonal):- As below (b) Resolution :- 4K (c) Viewing angle degree: - 178x178 degree (d) Brightness :- 500 Nits (e) contrast ratio 4000:1 (f) Backlit :- Direct LED (g) Jack Interface: - HDMI -3 no. 1.2 DP, DVI USB 2.0 -2 no. CI Slot RF In AV In Component In (RCA5 Type) Digital Audio Out RGB In (D-sub 15pin)-PC PC Audio Input RS232C (D-Sub 9pin) RJ45 Stereo mini jack. (h) Optical Out :- Available Note- Screen size will be decided as per instruction of engineer incharge.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount	
1	2	Approximate Screen size 55 inch	Numbers	9.00	77150.25	694352.25	
					Total	694352.25	
Item- 11	Data logger system for Railway S&T installation As per spec. IRS: S-99 2006 (Amdt-3) or latest. Central Monitoring Unit (Hardware Configuration as per Annexure) with UPS minimum 06 hrs battery backup and required Software tools. This also includes the supply of one no composite computer & printer table (Godrej workstation table) for keeping the Processor module and one no Godrej make operator chair model PCH7001.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount	
1	1	1024 digital and 32 analog inputs.	Numbers	5.00	492021.65	2460108.25	
					Total	2460108.25	
Item- 17	Supply Color Light Signal Accessories.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount	

**DYCSTE-C-BRC-S AND T/WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-BRC-154R-2025-26

Closing Date/Time: 21/07/2026 15:00

1	1	(1) CI Base (As per IRS S-10 & RDSO Drg. No. 2011/M With latest assembly). (2) Pinnacle. (3) Ladder Assembly, as per RDSO Drg. No. SA-23156, with Base, Ladder Guards, Platform, Front Maintenance Platform, MS Supporting bracket to Support Ladder.(4) Signal Front Staging Complete Assembly for CLS Unit.(5) Signal back staging as per extent WR Practice.	Set	73.00	3153.79	230226.67
2	2	Supply of signal no plate as per Drg no CSTE Drg No CSTE/6186.	Numbers	123.00	539.26	66328.98
					Total	296555.65
Item- 30	Supply of DC Track Circuit Accessories as follows -					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Track feed battery chargers, 110V AC input, 2 to 6/10 V DC Output; as per Specn. No. IRS.S 89/ 2013 with latest amendments. Charger shall be suitable for charging 80 AH battery.	Numbers	180.00	3086.38	555548.40
2	2	Choke Coil for Single Rail Track Circuit on 25 KV 50 Hz AC Electrified Section as per Spec No IRS S 65/1983 with latest amendments.	Numbers	360.00	1865.47	671569.20
3	3	Low maintenance Lead acid secondary cell 2 V / 80 AH (Track feed Battery), shelf mounting type conforming to IRS:S- 88/2004 or latest (uncharged).	Numbers	550.00	1939.30	1066615.00
4	4	Adjustable Track Feed Resistance disc type 30 ohms as per RDSO Drg. No. SA 20166/M (Adv.) with latest amendments (with Phenolic molded base).	Numbers	200.00	857.13	171426.00
					Total	2465158.60
Item- 51	Disconnect Terminal Block, Screw less type, as per RDSO Spec. No.RDSO/SPN/189/2004. With the latest amendments.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Disconnect Terminal Block, Screw less type, 4-wire front entry (Two in-put & Two out-put) The color will be decided by Engineer - in - Charge. (Preferably In Blue, Red & Grey Colors in the ratio of 1:2:3). as per RDSO Spec. No. RDSO/SPN/189/2004. With latest amendments.Note- Make to be approved by Railway before supply.	Numbers	30000.00	53.16	1594800.00
2	2	Supply of End plate 2.5mm/0.091 in thick as per site requirement.	Numbers	3000.00	10.05	30150.00
3	3	Supply of End Stopper 10mm/0.0394 in width as per site requirement.	Numbers	3000.00	9.86	29580.00
4	4	Supply of Carrier Rails for above 35 mm x 7.5mm, 1mm/0.039 in thickness un-slotted type as per site requirement.	Numbers	30.00	103.44	3103.20
					Total	1657633.20
Item- 75	Microcontroller based programmable static switching module (Auto changeover) of Reliance Electricals Make or similar, with an at a glance LCD display suitable for break-less switching between two DC supplies as per attached technical specifications.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Upto 40A for 20-110VDC. Model No: RE-SDSM-40.	Numbers	20.00	67886.58	1357731.60
2	2	Upto 70A for 20-110VDC. Model No: RE-SDSM-70.	Numbers	15.00	81962.80	1229442.00
3	3	Upto 40A for 110VAC. Model No: RE-SASM-40.	Numbers	15.00	70737.46	1061061.90
					Total	3648235.50
Schedule	Schedule B-Execution items					

**DYCSTE-C-BRC-S AND T/WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-BRC-154R-2025-26

Closing Date/Time: 21/07/2026 15:00

Item- 1	Modification/Alteration in existing EI (Electronic Interlocking) as per latest RDSO guidelines/TAN. It includes- Design and modification in existing Interface and Interlocking circuits and logic of EI system including modification in the VDU(Video Display Unit)/ LCP(Local Control panel)/ CCIP (Control cum Indication Panel), Maintenance terminal (MPC), Data Logger, Relay rack wiring. The complete work should comply with the latest RDSO specifications and guidelines and as per approved SIP and circuit diagrams. All the material (Interface cards / relays / wiring material / connectors fuses/communication devices etc.) shall be provided by the contractor. The work also includes the supply of modified Selection table, InterfaceCircuits, VDU/ LCP/CCIP diagram etc. to suit the modified SIP. It also includes the carrying out of FAT, SAT (as applicable) jointly with Railways and satisfactory commissioning. All plans/drawings/circuits etc. should be prepared on AUTO CAD, soft copy to be supplied on Pen Drive and 06 sets of hard copies also to be supplied.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	3	Alteration more than 20 routes.	Per Route	110.00	300911.14	33100225.40
					Total	33100225.40
Item- 2	Design of ST/LT/TOC/Square sheet/RCC (Three copy) for approval.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Upto four line station	Set	3.00	18015.49	54046.47
					Total	54046.47
Item- 4	Installation, wiring, programming, testing and commissioning of EI equipment supplied as per supply item in schedule 'A' including transportation from Consignee's depot to site. The works and materials for installation, wiring, testing and commissioning, grouting, cutting of floors, walls, refilling of the same, re-plastering, required CC/ masonry works, fixing/ placing/ laying of insulated ladders/ casing-capping/ cable trays/ RCC/GI pipes / Cables, termination of cables with lugs/ connectors, painting, / lettering are to be provided/ done by the contractor for the equipments supplied vide Item of Schedule "A" of this contract. This also covers the networking of built in EI Data loggers of all the stations to monitor the system to any other places where desired by Engineer-in-charge. Note: Installation shall be comply with RDSO Technical Advisory Note No STE/E/TAN/3012 dtd. 28.08.2014 or latest. Installation, wiring, programming, testing and commissioning of Operator VDU in Hot stand-by with Redundancy. Any Equipments/cards/Modules required for Hot stand-by with Redundancy shall be supplied & Installed by the Contractor. This also include supply of one no Godrej make operator chair model PCH7001 or better , one no. of composite computer & printer table (Godrej work station table or better) for keeping MT , one no Godrej make operator chair model PCH7001 or better. Termination of indoor/ PIJF cables in relay room on relays, tag blocks, CT racks as per approved wiring diagram including alterations/ modifications as required at site. Soldering to be done at all required termination. Dressing/ lacing of wiring shall be done neatly with help of dressing thread / plastic self-lock strip of suitable size. The tools/ equipments/ materials/ simulation boards required for testing shall be supplied / fabricated by contractor. This included replacement of modules/ cards/ LEDs/ equipments going defective during testing. Necessary power supply boards with required capacity plugs, sockets, surge & lightning protection boxes shall be supplied and installed by the contractor. 230V supply shall be arranged by Railways. In case supplies are required to be extended, from Power room / relay room then same shall be extended by the contractor with his own materials such as 1X16 sq. mm wires, cables, lugs,RCC/GI pipes, insulated ladders etc. After ST/LT testing, Factory Acceptance Tests (FAT) & Square Sheet testing system should be fault free while submitting to Railways, otherwise suitable necessary action can be taken by Engineer-in-charge.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	without Object Controller	Numbers	3.00	954322.13	2862966.39
					Total	2862966.39
Item- 5	Design of Circuit Diagrams consisting Wiring/ Logic diagram, contact analysis, fuse detail, Input/output bit chart, VDU diagram, Interface etc. submission of Three paper copies for approval.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Upto 50 Routes	Station	3.00	138747.21	416241.63
2	2	50 to 100 Routes	Station	2.00	208545.00	417090.00
					Total	833331.63
Item- 6	Design of Miscellaneous diagram consist of Floor Plan of Relay Room, Battery Room, Power Equipment Room, Data logger room, Power Supply Diagrams along with power supply calculation, Earthing Diagram, Power panel diagram, IPS wiring diagram , Auto change over diagram , Block circuit wiring diagram, Digital Axle counter wiring diagram and all other relevant drawings (Three copy) for approval.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCSTE-C-BRC-S AND T/WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-BRC-154R-2025-26

Closing Date/Time: 21/07/2026 15:00

1	1	Upto four line	Station	3.00	5171.12	15513.36
2	2	More than four line station	Station	2.00	7697.00	15394.00
					Total	30907.36
Item- 8	Supply of Circuit Diagrams consisting wiring/Logic diagram, contact analysis, fuse detail, Input/output bit chart, VDU diagram, Interface in Auto CAD in Pen Drive and Six set of Copies after approval.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Upto four line station	Station	3.00	28208.29	84624.87
2	2	More than four line station	Station	2.00	35003.00	70006.00
					Total	154630.87
Item- 9	Supply of diagrams consist of Floor Plan of Relay Room, Battery Room, Power Equipment Room, Data logger room, Power Supply Diagrams along with power supply calculation, Earthing Diagram, Power panel diagram, IPS wiring diagram, Auto change over diagram, Block circuit wiring diagram, Digital Axle counter wiring diagram and all other relevant drawing in original tracing along with AutoCAD in Pen Drive and six set copies after approval.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Upto four line station	Station	5.00	2820.35	14101.75
2	2	More than four line station	Station	2.00	3721.00	7442.00
					Total	21543.75
Item- 11	Design and supply of cable courage plan, location particulars, Cable termination rack particulars, cable meggering report, earth resistance particulars, Traction bonding diagram, 1/2 wire count sheet and any other drawing in AutoCAD in A3/A4 size. The contractor shall initially supply 3 sets of circuits complete for approval of Railways. Railways will return one set to the contractor duly approved withalterations/corrections, if any. The contractor shall incorporate Railway's alterations/corrections in the tracings without any deviation and submit all tracings complete in all respects to the Railways along with PENDRIVE & 4 sets of final approved drawings. This includes designing of cable coreage plan based upon I.P in consultation with engineer-in-charge For small/medium yards.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Station	Station	5.00	60672.35	303361.75
					Total	303361.75
Item- 12	Design and supply SWR Diagram on standard tracing paper of 95grams for each station. Corrected version of SWR plans after checked & approved by Rly's 25 Ferro copies will be supply for each of the plans.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	For stations having up to 4 lines	Numbers	5.00	22650.96	113254.80
2	2	More than four line station	Numbers	2.00	49225.52	98451.04
					Total	211705.84
Item- 13	Preparation of SWR including supply of SWR booklets (25 Nos. per station).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	For stations having up to 4 lines	Numbers	2.00	31710.97	63421.94
2	2	For stations having more than 4 lines	Numbers	3.00	76075.72	228227.16
					Total	291649.10
Item- 14	"Preparation of Cable Route Plan of buried S & T Cables using Radio Detector 8200 GS or Similar model GPS Model and DGPS for Per Trench per Km. For existing cables as per the instruction of Engineer in-charge. Submission of report in KMZ file format, Soft Copy Only."					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	In Yard Section	Kilometre	12.00	51422.62	617071.44
					Total	617071.44
Item- 16	Foundation, Erection & Installation of CLS without route indicator.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCSTE-C-BRC-S AND T/WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-BRC-154R-2025-26

Closing Date/Time: 21/07/2026 15:00

1	1	Excavation and Casting of foundation for main signal post as per CSTE/3122 (WR) with contractor's own materials including cement and anchor bolts of standard size. The required scaffolding Ferma etc. for Casting of foundation will have to be brought by the contractor at his own cost.	Numbers	73.00	11759.55	858447.15
2	2	Erection of CLS Post with base and signal unit on top or on OFF set Bracket, fixing of front and back staging, ladder and guards with contractor's own brackets and fixing materials. This also includes erection of auxiliary signals like calling on, shunt signal if any. The work shall be done as per instructions of Rly engineer at site. It also includes provision & fixing of maintenance platform as per design given by Engineer -In-Charge at site. It also includes supply of padlock for signal units and cable termination box. X' arms to be provided by the contractor till the signals are introduced. The Item includes cutting of Signal post if required by Site Incharge. 2/3/4 aspect signal unit mounted directly on signal post.	Numbers	73.00	7608.76	555439.48
					Total	1413886.63
Item- 19 Foundation, Erection & Installation of Shunt Signal.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Excavation and Casting of foundation for Shunt Signal as per Drg. No. CSTE/6090 with Contractor's own materials including Cement and Anchor Bolts of Standard Size. The required scaffolding, Ferma etc. for Casting of foundation will have to be brought by the Contractor at his own cost.	Numbers	33.00	5848.12	192987.96
2	2	Erection of Position Light Shunt signal with Base, Post, and Signal unit. Wiring & Fixing of Number Plate. The work shall be done as per instructions of Rly engineer at site.	Numbers	33.00	4169.37	137589.21
					Total	330577.17
Item- 25 Provision of Field accessories of DC Track Circuits						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Track Lead Junction Boxes as per C.Rly Drg. No.RST 11509 m a d e f r o m fiber glass/SMC/FRP along with terminal blocks.	Numbers	725.00	1031.00	747475.00
2	2	GI wire 8 SWG (4mm Dia) suitable for track circuit rail bonding.	Kg	110.00	62.72	6899.20
3	3	Channel Pins MS (Galvanized) single groove, 7 mm suitable for 4mm Dia bonding wire as per spec No IRS S 17 & RDSO Drg No. S-69/M.	Numbers	5300.00	5.56	29468.00
					Total	783842.20
Item- 38	"Painting of two coats of synthetic enamel paint over one coat of primer on the following after scraping & cleaning surface wherever necessary with contractor's own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in- charge. Epoxy paint will be supplied by Railways. NOTE-The paint and primer should be from Asian Paints/ Nerolac / Dulux / Berger. The primer / enamel paints (Aluminum synthetic, black enamel, brilliant white and yellow) will be as per (IS 5660 of 1970) / (IS 2932 of 1974)."					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Main Signal Post with Signal Units, Surface base and complete fittings as per Western Railways standard practice.	Numbers	73.00	348.73	25457.29
2	2	Shunt signal post with signal unit, surface base as per Western Railway's Standard Practice.	Numbers	33.00	209.06	6898.98

**DYCSTE-C-BRC-S AND T/WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-BRC-154R-2025-26

Closing Date/Time: 21/07/2026 15:00

3	3	Track Lead Junction Box. (Black enamel outside only).	Numbers	725.00	60.52	43877.00
4	4	Point Machine with ground connections complete (Point Machine with Black enamel only outside and ground connections with Red Oxide).	Numbers	64.00	102.71	6573.44
					Total	82806.71
Item- 45	Excavation and Casting of Apparatus Case foundation with contractor's own materials including cement and anchor bolts of standard size. The required scaffolding Ferma etc. for Casting of foundation will have to be brought by the contractor at his own cost.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Single Case as per Drg No SK 748 or CSTE/5074 or SS Location	Numbers	295.00	6755.79	1992958.05
2	2	Half Case as per Drg No SK 747 or CSTE/5074 or SS Location.	Numbers	115.00	5176.15	595257.25
					Total	2588215.30
Item- 46	Installation of Apparatus Cases with miniature 'E' type lock on CC foundation. This includes filling of location foundations with river bed sand and plastering on top of the sand. 'E' Type lock will be provided by Railway.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Single Case	Numbers	295.00	1015.16	299472.20
2	2	Half Case	Numbers	115.00	619.82	71279.30
					Total	370751.50
Item- 48	Fabrication and fixing of SMC sheet in location box by providing all fixtures as per Railway Drawing including fixing of PVC coated string rods at the back side for cable support with contractor's own materials. The work shall be done as per Drg and arrangement similar to SK 783-1/2. With latest alterations & as per instructions of Rly engineer at site. Note- SMC sheet will be taken in place of phenolic laminated sheet.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Single Case	Numbers	295.00	2306.46	680405.70
2	2	Half Case	Numbers	115.00	733.60	84364.00
					Total	764769.70
Item- 49	Painting of two coats of synthetic enamel paint over one coat of primer on the following after scraping & cleaning surface wherever necessary with contractor's own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in- charge. Epoxy paint will be supplied by Railways. NOTE-The paint and primer should be from Asian Paints/ Nerolac / Dulux / Berger. The primer / enamel paints (Aluminum synthetic, black enamel, brilliant white and yellow) will be as per (IS 5660 of 1970) / (IS 2932 of 1974).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Apparatus Case Full Size. (Outside & inside)	Numbers	295.00	252.63	74525.85
2	2	Apparatus case Half Size. (Outside & inside)	Numbers	115.00	229.08	26344.20
					Total	100870.05
Item- 64	Installation, Wiring and testing of Integrated Power Supply System. This includes power distribution connection to bus bars and relay racks in the room with contractor's own wiring materials and fabrication and fixing of AC/DC power distribution board made on 8mm thick SMC sheets or any standard make with connections suitable for 32 A. Wiring to be done considering site requirement, depending upon the load with suitable wires, lugs & glands as per instructions of Engineer-in-charge. The work includes installation of ELD's, fixing & wiring of change over switch(program switch) for selection of DG set supply (DG1 & DG2) and wiring of change over switch (program switch) for selection of mains or DG supply. This item also includes supply & fixing of ladder along the wall for carrying power supply wires/cables from IPS room to Relay room/power room etc. Any masonry work required will be carried out by contactors own material.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	For Station	Numbers	5.00	103836.27	519181.35
					Total	519181.35
Item- 67	Supply, Installation, Testing and Commiioning of fire alarm system as per RDSO spec. No. RDSO/SPN/217/2021 version 2 or latest.					

**DYCSTE-C-BRC-S AND T/WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-BRC-154R-2025-26

Closing Date/Time: 21/07/2026 15:00

S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Power supply Unit 24VDC, 5 Amps, with two batteries.	Numbers	4.00	26619.33	106477.32
2	2	Control Module to address sounder cum strobe.	Set	4.00	8900.24	35600.96
3	3	Relay module to connect the Data logger to the panel.	Numbers	4.00	9959.64	39838.56
4	4	Zone Interface module.	Numbers	4.00	4542.48	18169.92
5	5	Cable EOL.(1 Nos =30m)	Numbers	20.00	3422.83	68456.60
6	6	Aspirating type (air sampling) for relay room with inbuilt fault isolator.	Numbers	4.00	270082.14	1080328.56
7	7	Copper pipe with 25mm Dia and 1mm thickness.	Numbers	800.00	1389.77	1111816.00
8	8	U L / E N / F M / V D S / L P C B approved Microprocessor based Networkable Analog addressable and modular type of Fire Alarm Control panel with display, in built changing facility and provision of GSM module suitable to send SMS to configured mobile numbers.	Numbers	4.00	99467.29	397869.16
9	9	Resettable, addressable multisensory (heat and smoke) which is fully compatible with analogue addressable protocol, electronically addressed.	Numbers	64.00	4051.96	259325.44
10	10	Analogue Addressable, resettable Manual Call point with inbuilt integral short circuit isolator having status LED for alarming & standby mode, Electronically addressed.	Numbers	64.00	4990.33	319381.12
11	11	Analogue type Linear heat sensing (LHS) Cable.	Numbers	1600.00	914.37	1462992.00
12	12	Liner heat sensing (LHS) interface module. (01 Number = 1 Meter)	Numbers	4.00	96553.80	386215.20
13	13	Addressable loop powdered sounder cum Strobe with inbuilt fault isolator.	Each Module	4.00	8149.32	32597.28
14	14	Hooter cum Strobe.	Numbers	4.00	5904.74	23618.96
					Total	5342687.08
Item- 71	Supply and Installation of Solar Power system for 110volt/300AH battery bank load as IPS System. Each panel containing the following items.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	i. Supply, installation, testing and commissioning of Solar photovoltaic Module as per IRS: S:84/92 (Amendment -2) or latest, 12Volt-80 Watt Peak, 72 Nos. in each set) series & parallel combinations (Preferably 9 series X 8 Parallel) will be as per site requirements & instruction of Engineer-in-Charge.	Set	2.00	852443.90	1704887.80
2	2	ii. Supply, installation, testing and commissioning of charge controller of 110V, 60 Amp. compatible with solar panel installed with digital meter. The charger controller should have provision of over voltage protection and low voltage protection , Blocking Diode fitted in the charge controller unit as per RDSO/SPN/187/2004 Amnd-1 or latest	Set	2.00	21685.52	43371.04
3	3	iii. Supply, installation, testing and commissioning of Array junction Box (02 Nos par set) & Main junction Box (01 No par set) fitted with MOV's etc. to safeguard the system from surges and suitable for above item as per instruction of Engineer-in-Charge.	Set	2.00	7228.08	14456.16

**DYCSTE-C-BRC-S AND T/WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-BRC-154R-2025-26

Closing Date/Time: 21/07/2026 15:00

4	4	iv. Supply , installation , testing and commissioning of theft proof mounting frame of angle iron MS Galvanized with adequate strength & weather -proof for solar panel (4-Module & 5- Module structure) as with suitable tilting arrangement to be fixed on roof top of building or any other location as per approved drawing and as per instruction of Engineer in charge. In addition to holes provided for fixing on the mounting structure, extra holes are to be provided suitably in the frame for cable routing. 1 No/ Set Installation must have proper earth terminals and shall be properly earthed as per instruction of Engineer in charge.	Set	2.00	50600.35	101200.70
5	5	v. Supply, and installation, of power cables with conduit pipes and grouting bolts/Hardware. This includes 1X2.5 sq. mm (minimum 50 mtr) , 2X2.5 sq.mm (minimum 250 mtr) for series and parallel connection of module. 2X10sq mm (minimum 200 mtr), copper cable of RDSO approved supplier between junction charge controllers.	Set	2.00	28914.82	57829.64
6	6	Supply, installation, testing and commissioning of Earthing kit for solar Panel system. (1 No./set) as per instruction of Engineer-in-Charge.	Set	2.00	3614.25	7228.50
					Total	1928973.84
Item- 78	Shifting & Termination of Signaling cables in S&T gears. It involves disconnection of Old main cable and connection of new main cable (during shifting /NI/Pre-NI).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Main Signal	Numbers	40.00	739.00	29560.00
2	2	Shunt Signal	Numbers	50.00	370.00	18500.00
3	3	Point	Numbers	60.00	1479.00	88740.00
					Total	136800.00
Item- 86	Earthing of armour of quad cables on copper busbar for three layer earthing of quad cables , it included copper strip green earth wire from quad cable armory to copper strip and green earth wire from copper strip to earth rod along with suitable termination material and soldering					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Half location box	Numbers	80.00	8000.00	640000.00
2	2	Full location box	Numbers	75.00	8500.00	637500.00
					Total	1277500.00

4. ELIGIBILITY CONDITIONS

Important All documents uploaded and remarks / confirmation entered by the bidders against any : eligibility condition shall be opened as part of technical bid only

Special 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 Crore 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.	No	No	Allowed (Mandatory)

**DYCSTE-C-BRC-S AND T/WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-BRC-154R-2025-26

Closing Date/Time: 21/07/2026 15:00

Special Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The tenderer must have successfully completed or substantially completed anyone of the following categories of work(s) during last 07 (seven) years, ending last day of month previous to the one in which tender is invited:(i)Three similar works each costing not less than the amount equal to 30% of advertised value of the tender .(ii) Two similar works each costing not less than the amount equal to 40% of advertised value of the tender(iii) One similar work costing not less than the amount equal to 60% of advertised value of the tender	No	No	Allowed (Mandatory)
2	Any RI or EI or CLS or ABS or IBS work involving Indoor and Outdoor work (Cable laying & termination)	No	No	Allowed (Mandatory)

Bidders shall confirm and certify on the behalf of the tenderer including its constituents as under:

S.No.	Description
1	I/we the tenderer (s) am/are signing this document after carefully reading the contents.
2	I/We the tenderer(s) also accept all the conditions of the tender and have signed all the pages in confirmation thereof.
3	I/we hereby declare that I/we have downloaded the tender documents from Indian Railway website www.ireps.gov.in . I/we have verified the content of the document from the website and there is no addition, no deletion or no alteration to the content of the tender document. In case of any discrepancy noticed at any stage i.e. evaluation of tenders, execution of work or final payment of the contract, the master copy available with the railway Administration shall be final and binding upon me/us.
4	I/we declare and certify that I/we have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements.
5	I/We also understand that my/our offer will be evaluated based on the documents/credentials submitted along with the offer and same shall be binding upon me/us.
6	I/We declare that the information and documents submitted along with the tender by me/us are correct and I/we are fully responsible for the correctness of the information and documents, submitted by us.
7	I/we certify that I/we the tenderer(s) is/are not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of submission of bids, either in individual capacity or as a HUF/ member of the partnership firm/LLP/JV/Society/Trust.
8	I/we understand that if the contents of the certificate submitted by us are found to be forged/false at any time during process for evaluation of tenders, it shall lead to forfeiture of the Bid Security and may also lead to any other action provided in the contract including banning of business for a period of upto two year. Further, I/we and all my/our constituents understand that my/our offer shall be summarily rejected.
9	I/we also understand that if the contents of the certificate submitted by us are found to be false/forged at any time after the award of the contract, it will lead to termination of the contract, along with forfeiture of Bid Security/Security Deposit and Performance guarantee and may also lead to any other action provided in the contract including banning of business for a period of upto two year.
10	I/We have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India and certify that I am/We are not from such a country or, if from such a country, have been registered with the competent Authority. I/We hereby certify that I/we fulfil all the requirements in this regard and am/are eligible to be considered (evidence of valid registration by the competent authority is enclosed)

Partnership firm/Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc.

S.No.	Description
1	Partnership firm/Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc. Please submit a certificate in the prescribed format (please download the format from the link given below). 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 Certification)

5. COMPLIANCE

Important : All documents uploaded and remarks / confirmation entered by the bidders against any compliance condition shall be opened as part of technical bid only.

Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
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**DYCSTE-C-BRC-S AND T/WESTERN RLY
TENDER DOCUMENT**

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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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General Instructions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per " Tender Documents" Attached	No	No	Not Allowed

Special Conditions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per " Tender Documents" Attached	No	No	Not Allowed

Technical-Compliances

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per " Tender Documents" Attached	No	No	Allowed (Mandatory)

6. Documents attached with tender

S.No.	Document Name	Document Description
1	Tenderdocument154R_compressed.pdf	tender document
2	07BRC-SC-YRD-SIP-DB_GC_MYG-DB-SMLA_V6-Correctedon05.05.2025.pdf	SIP DB
3	GMW-WR-SIPS-CONWR-WGR-862-2025-V1-R0-A0-SSE-C-SIG-DRG-VIII-CCG-PDF.pdf2.pdf	SIP waghodiya
4	GMW-WR-SIPS-CONWR-JD-1408-2025-V1-R0-A0-SSE-C-SIG-DRG-VIII-CCG-PDF.pdf.pdf	SIP Jarod
5	SIP-LOTNALTN.pdf	SIP Lotna
6	SIP-SMLA.pdf	SIP Samlaya

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: HEMANT KUMAR MAHAWAR

Designation : Dy.CSTE/C/BRC