

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

**Dy. CSTE/PROJECT/JBP** acting for and on behalf of The President of India invites E-Tenders against Tender No **JBP-SnT-Proj-Tender-06** Closing Date/Time 10/02/2026 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**

<b>Name of Work</b>	Composite work of supply, Installation, Testing & Commissioning of Indoor and Outdoor Signaling Equipments, Power Supply Equipments, MSDAC, Track Circuit, Point Machines etc. along with construction of S&T service buildings, Provision of AT Supply for S&T Equipments and associated Electrical works in connection with the provision of Distributed Electronic Interlocking with one main cabin and one end cabin (OC) at KATNI JUNCTION Station of JABALPUR Division of WCR.		
<b>Bidding type</b>	Normal Tender		
<b>Tender Type</b>	Open	<b>Bidding System</b>	Two Packet System
<b>Tender Closing Date Time</b>	10/02/2026 15:00	<b>Date Time Of Uploading Tender</b>	12/01/2026 18:24
<b>Pre-Bid Conference Required</b>	No	<b>Pre-Bid Conference Date Time</b>	Not Applicable
<b>Advertised Value</b>	216786610.53	<b>Tendering Section</b>	WORKS
<b>Bidding Style</b>	Single Rate for Tender	<b>Bidding Unit</b>	Above/Below/Par
<b>Earnest Money (Rs.)</b>	1233900.00	<b>Validity of Offer ( Days)</b>	90
<b>Tender Doc. Cost (Rs.)</b>	0.00	<b>Period of Completion</b>	12 Months
<b>Contract Type</b>	Works - General	<b>Contract Category</b>	Expenditure
<b>Bidding Start Date</b>	27/01/2026		
<b>Are JV allowed to bid</b>	Yes	<b>Number of JV Member Allowed</b>	4
<b>Are Consortium allowed to bid</b>	No	<b>Number of Consortium Member Allowed</b>	0
<b>Ranking Order For Bids</b>	Lowest to Highest	<b>Expenditure Type</b>	Capital (Works)

**2. SCHEDULE**

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule ( ) A-Supply &amp; Installation of Electronic Interlocking</b>							65964472.87	
1		1.00	Station	60948521.32	60948521.32	AT Par	60948521.32	
<b>Description:-</b> Design, manufacture & supply of HOT stand-by Architecture Electronic Interlocking(EI)system complete as per RDSO SPN Electronic No.RDSO/SPN/203/2011 or Ver.1.0 with latest amendment, as per technical requirement & tentative approved Signalling Plans & Diagrams. Electronic interlocking (EI) system should be of 01+01 distributed architecture with mainly consisting of central processing equipment, interface equipment /relays etc. as per Electronic Interlocking requirements, Dual operator Industrial Grade VDU Panel (85"LED or better) with Redundancy (HOT stand-by dual VDU normally one system on line and other system in Hot stand-by mode). (Note: - This includes supply and installation of VDU for Dual panel and MTC and Embedded PC). All interfacing relays suitable for EI, interconnecting cables & Jumper wires, Industrial grade maintenance Terminals (Similar size as VDU), required power supply converters for EI equipments, VDU, protocol Converter for Data Logger, Housing for EI equipments including VDU, Maintenance terminal & relay racks, fuses ,screw less disconnecting type terminals, fixture mounting arrangements & accessories necessary to make the EI system functional as per approved signaling plan. The tenderer should furnish complete details of cards/modules/sub-modules connectors etc. for each station. Supply of 15% essential spares of the EI equipments subject to minimum one of each type mainly consisting of processor, cards/ module, interface relay etc. Item wise detailed break up with unit and quantity to be provided in separate annexure. Drawing for housing of VDU shall be as per IRSEM Drg.No.-21-D3 with suitable modifications required for 85" VDU size. EI Should Have KAVACH Enabled Port and KLCR RELAY with different type of wards as instructed by site In Charge and one set of KEY BOARD & MOUSE given as spare for VDU operations. Inspection Agency RDSO for EI and associated relays, converters, Protocol converters for data logger etc, Inspection Agency TPI for other than above (VDU, optg and Maintenance PC, their housing etc) Note:-The EI system, including all its equipment, and subsystems,shall be under warranty for a period of three (03) years from the date of commissioning of the complete system. The PC and VDU shall be covered under an additional warranty period of two (02) years from the supplier, other than the OEM.								

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2	2	1.00	Station	1828281.00	1828281.00	AT Par	1828281.00	
	<b>Description:-</b> "Modification/alteration/augmentation of existing electronic interlocking (EI)system at NKJ A Cabin(Make: Kyosan K5BMC) as per RDSO SPNNo. RDSO/SPN/192/2019 Ver 2.0 with latest arrangement as per approved signalling plans and selection table/locking tableof stations( For phase working/ modification, LC removal etc.) technical specification as per special condition of contract. Thisalso include necessary supplies for alteration/ modification in VDU's software. This also include necessary alteration inearthing, datalogger wiring, programming, software modification, preparation of ST/LT/RSP/PD/YDU diagram and necessarywiring ,testing and commissioning of the system."Alteration involving modification in up to 10 routes							
	3	1.00	Set	95540.69	95540.69	AT Par	95540.69	
	<b>Description:-</b> Supply of "Instruments and tool kits required for Trouble Shooting and repair of hardware and software for EI system should be supplied for stations as per schedule item 1 of EI above. (This includes all tools required for EI maintenance and trouble shooting.Refer Annexure-P attached Note:- Any other Tools required for trouble shooting and repair and recommended by OEM shall be supplied by contactor free of cost Note: Tool kit supplied by contractor will have to be certified by OEM that these tools are sufficient for maintenance/ Repair/ Troubleshooting. Per Unit = Per Station." Inspection by TPI							
	4	2.00	Numbers	28789.38	57578.76	AT Par	57578.76	
	<b>Description:-</b> Supply of Protocol converter for interface the data logger and the EI system suitable for above data logger. Any other equipment/Connector/Cable required to connect EI to datalogger will have to be supplied by Contractor at his own cost. Inspection by Consignee							
	5	1.00	Station	2639664.00	2639664.00	AT Par	2639664.00	
5	<b>Description:-</b> Installation, wiring, testing and commissioning of EI System with 'Hot standby architecture' as supplied under EI item No. 1 of schedule 'A'. It includes transportation of material from consignee's depot to the site, erection and grouting of EI Relay Racks, CT Rack fixing and wiring of all the interfacing relays (Vital & Non-Vital), installation and wiring of Microprocessor equipments, interface equipments, power supply equipments and all other associated accessories to make complete EI system to be functional. Note: (i) Technical Requirements are attached here with (ii) Contractor has to arrange simulator/simulation testing panel for testing and commissioning by Selection Table and Square Sheet for each Signaling function. (iii) Installation, wiring, testing and commissioning of EI system will be done by OEM after following all the guidelines/ directives issued by RDSO from time to time."							
	6	100.00	Man-Days	3558.81	355881.00	AT Par	355881.00	
6	<b>Description:-</b> Training of Sr. Engineers/Engineers/Technicians/Jr. Engineers for Installation, testing, Commissioning, Maintenance, Repair and trouble shooting of EI system. Certification by Consignee/Engineer-in-charge							
	7	2.00	Numbers	19503.05	39006.10	AT Par	39006.10	
7	<b>Description:-</b> Supply of E1 to serial converter as per specification given (for reconfiguring the data logger net works as per RDSO guidelines No. STS/E/Data logger/vol. XX dated 12.09.2011) from station to test room at JBP. Inspection by TPI							

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TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> ( ) B-Supply (MSDAC, UFSBI, OFC, Point Machine, LED, IPS etc.)							48219324.04	
8	1	15.00	Set	120913.44	1813701.60	AT Par	1813701.60	
	<b>Description:-</b> Supply of Electric Point Machine (Rotary locking Type) , 110VDC operation (AC immunity 160V) as per RDSO drg. S-11000 with ground connection and clamp lock arrangement suitable for 220mm throw for thick web switches as per IRS-S-24/2025 REV.3.0 with amendment 1 or latest. Note: Ingress Protection rating should be IP-67. INSPECTION BY RDSO							
9	2	60.00	Set	100402.50	6024150.00	AT Par	6024150.00	
	<b>Description:-</b> Supply of Electric Point Machine IRS make 110V DC operation (AC immunity 160V) NON TRAILABLE, complete with lock, detector, cable termination box and slides for lock and detector (Rotary locking) asper specification no. IRS: S-24/2025 REV.3.0 amendment-1 or latest, requirement of point machine is 143 mm throw only as per RDSO Drg. No RDSO/S-10800. Note: Ingress Protection rating should be IP-67. INSPECTION BY RDSO							
10	3	1.00	Set	1150000.00	1150000.00	AT Par	1150000.00	
	<b>Description:-</b> "Supply of Block Proving with Digital Axle Counter using Block Panel & UFSBI for Double Line operation as per RDSO Specification No. IRS:S-105/2025 Ver.1 with solid state Dual Redundant EBLM, consisting of following: a) Universal Fail-Safe Block Interface as per RDSO Spec. No.IRS:S-104/2012 Ver.0 (or Latest Amendments) - (1 Set or 2 nos.) b) SM's Panel (RDSO/S/32019) for DOUBLE Line or SM's Panel (RDSO/S/32017) Double Line - (1 Set or 2 nos.) c) Electronic Block logic Modules (EBLM) Type DESBPACBBLM (for Double Line) absolute Block Working - (1 Set or 4 nos.) complete with 10 Relays as - BIPR1, BIPR2, TGTR, TCFR & ASCR, 2 nos. each (1 no. at each station) d) Block Telephone (1 Set or 2 nos.) e) Alarm Panel (Audio & Visual) - (1 Set or 2 nos.) Note: Supply Item no. (a) to (e) Inspection by RDSO f) Automatic Media Changeover of modems working on redundant channels for data transmission of OFC/Quad(Annexure-B). (1 Set or 2 nos.) g) Modem for secondary/backup media (1 Set or 2 nos.) (either 4-wire voice or 2 Mbps E1 channel or single mode dark Fiber as specified by Railway) Note: Supply Item no. (f) to (g) Inspection by the TPI.							
11	4	1.00	Pair	576895.04	576895.04	AT Par	576895.04	
	<b>Description:-</b> Supply of dual redundant arrangement of UFSBI electronics for exchange of vital relay state exchange pertaining to IB signalling etc. The system comprises for following sub system. Supply of Electronics for UFSBI interface as per IRS spec no IRS-S-104/2012 Ver 0 (Latest Amendment). Inspection RDSO							
12	5	1.00	Pair	166191.92	166191.92	AT Par	166191.92	
	<b>Description:-</b> Supply of dual redundant arrangement of UFSBI with error logger electronics for exchange of vital relay state exchange pertaining to IB signalling etc. The system comprises for following sub system :: Supply of pre wired 36-U floor mounting MS Cabinet suited to fit 2 sets of UFSBI Electronics with Seimens grey/Smoke grey powder coating (Rust proof and long life), tinted 3-4 mm thick tinted Acrylic/ Poly carbonated/ Glass sheet fitted on front door and metal back door, with double lock and bottom cable entry facility. INSPECTED BY TPI							
13	6	1.00	Set	88500.00	88500.00	AT Par	88500.00	
	<b>Description:-</b> "UFSBI-Installation, Testing, & Commissioning Charges for supplies against Item No.10,11 & 12 as mention above in supply items.							
14	7	35.00	Numbers	7440.62	260421.70	AT Par	260421.70	
	<b>Description:-</b> Supply of main LED signal UNIT 110V/AC as per RDSO specification No RDSO/SPN/199/2025 Rev.1.2 WITH latest amd. latest. Suitable for existing CLS housing unit . RED Aspect Inspection: RDSO (NOTE: Item should be supply with minimum warranty period of 5 years)							
15	8	35.00	Numbers	7440.62	260421.70	AT Par	260421.70	
	<b>Description:-</b> Supply of main LED signal UNIT 110V/AC as per RDSO specification No. RDSO/SPN/199/2025 Rev.1.2 WITH latest amdt. latest. Suitable for existing CLS housing unit . YELLOW Aspect Inspection: RDSO (.NOTE: Item should be supply with minimum warranty period of 5 years)							
16	9	10.00	Numbers	8440.77	84407.70	AT Par	84407.70	
	<b>Description:-</b> Supply of main LED signal UNIT 110V/AC as per RDSO specification No. RDSO/SPN/199/2025 Rev.1.2 WITH latest amdt.. Suitable for existing CLS housing unit. GREEN Aspect Inspection: RDSO.(NOTE: Item should be supply with minimum warranty period of 5 years)							
17	10	140.00	Numbers	4577.08	640791.20	AT Par	640791.20	
	<b>Description:-</b> Route LED Signal Lighting 110 V Ac in existing CLS housing and compatible with AC LED ECR as per RDSO Spec RDSO/SPN/153/2023 REV 5.0OR LATEST Inspection: RDSO. (NOTE: Item should be supply with minimum warranty period of 5 years)							
18	11	120.00	Numbers	4577.08	549249.60	AT Par	549249.60	
	<b>Description:-</b> Shunt LED Signal Lighting 110 V Ac in existing CLS housing and compatible with AC LED ECR as per RDSO Spec RDSO/SPN/153/2023 REV 5.0OR LATEST Inspection: RDSO.(NOTE: Item should be supply with minimum warranty period of 5 years)							

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TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

19	12	2.00	Numbers	42216.14	84432.28	AT Par	84432.28	
	<b>Description:-</b> Supply of Multi Lamp Route indicator(LED (single/Double Digit) from 1 to 19 with white LED (With housing)specification. Make Efftronics or similar. OEM Warranty certificate along with Test report to be submitted at the time of supply.Material inspected by RDSO. .(NOTE:Item should be supply with minimum warranty period of 5 years)							
20	13	115.00	Per Detection Point (DP)	317566.62	36520161.30	AT Par	36520161.30	
	<b>Description:-</b> "Supply, Installation, wiring, testing & commissioning of high frequency digital axle counter multi section type complete system including central evaluator and final track clearance relay for each section detection points. Track side electronics with accessories including deflector plates. Housing for track side electronics equipped for minimum 23 track section and 30 detection points and the axle counter system should be as per specification no RDSO/SPN/176/2013(ver-3.0) with latest amendments with Supply of essential 10% spares covering all types of cards, wheel sensors for MSDAC. Supply of Diagnostic system for Remote diagnostics Tool set for wheel sensor mounting and maintenance of MSDAC consisting of torque wrench, ratchet, testing plate, measuring tape, screw driver, gloves and multimeter fluke 115 (1 Nos. per 14 DP)(Description Attached as Annexure-C for per 30DP). Remote diagnostic system to be provided with system. Note:- axle counter to be supplied as per latest specification with up to date amendment & with specific configuration of DPs in station. Inspection By RDSO. Installation, wiring, testing & commissioning of track device of SSDAC/MSDAC with all system including digging of trench, track crossing , laying of Double walled anti rodent corrugated pipe or other pipe required for completed installation of system from track device to location box and making its terminations. Fixing of deflector plates. (Double walled anti rodent corrugated pipe made up of High Density Polyethylene of required diameter and all other accessories as per site requirement to be supplied by the firm) & Casting of foundation(by contractor own material of track side housing & erection of track side housing if required. Installation of EJB / Trackside Electronics inside the location (if required), reset box for system, etc. including supply of wires and other accessories. Pre-commissioning checklist to be submitted prior to the commissioning asper RDSO specification. Rate- Per DP. SUPPLY PORTION INSPECTION BY RDSO." Note:- A minimum of 04 (Four) Diagnostic PCs, as per the attached Annexure-D, shall be provided to cater to the information requirements of 30 DPs. If any additional Diagnostic PCs are required for satisfactory system performance, the same shall be supplied by the contractor free of cost, and no extra payment shall be admissible on this account.04 Nos. of Portable Operator Consoles are required for on-site programming of MSDAC, as per the attached Annexure-F(additional relay rack & relay for MSDAC should be supply, installation,wiring and testing by contractor) Note:- Diagnostic PC and Portable Operator Console should covered warranty Period of 3 years.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> ( ) C-Supply Other than Sch-A & Sch-B							29316543.13	
21	1	10.00	Numbers	1616.01	16160.10	AT Par	16160.10	
	<b>Description:-</b> Supply of Tag Blocks 200 way with cover as per IRS: S- 77/2006 (Rev. 1) with latest amendment. Inspection by RDSO.							
22	2	2.00	Numbers	611982.84	1223965.68	AT Par	1223965.68	
	<b>Description:-</b> Supply of Data logger for monitoring status of important relay, complete with processor module to monitor 1024digital and 48 analog inputs as per RDSO spec. IRS -S-99/2006 with latest amendments including power supply for adequate capacity, battery, fault diagnostic for failure analysis and modem card for monitoring DATALOGGER , complete data logger and processor module ( as per Annexure E)shall be placed in precedent rack of suitable size to be supplied by the contractor. INSPECTION BY RDSO Note:- Diagnostic PC should covered warranty Period of three Years.							
23	3	2.00	Numbers	117858.08	235716.16	AT Par	235716.16	
	<b>Description:-</b> Supply of Data concentrator (Additional T port connectivity in between existing rings). (Inspection by TPI) Refer Annexure-S							
24	4	250.00	Numbers	665.80	166450.00	AT Par	166450.00	
	<b>Description:-</b> Supply, Testing & Commissioning of PVC pipe having 25 mm dia for aspiration detection supply portion (Number = 03 Meter length) INSPECTED by Consignee							
25	5	500.00	Metre	8.41	4205.00	AT Par	4205.00	
	<b>Description:-</b> Supply of PVC conduit Pipe having Diameter 25mm. INSPECTED BY CONSIGNEE.							
26	6	1500.00	Metre	83.85	125775.00	AT Par	125775.00	
	<b>Description:-</b> "Supply, Testing & Commissioning of 2CX 1.5 sq mm twisted shielded armored copper cable. INSPECTED BY TPI							
27	7	12.00	Numbers	7556.76	90681.12	AT Par	90681.12	

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

		<b>Description:-</b> Supply of CO2 type fire extinguisher capacity 4.5 Kg capacity ISI Mark IS:15683:2006 operating temperature (-30) °to (50) ° for class 13 B type of fire with 1 mtr. Hose pipe fitted with PVC bend horn complete in all respect. Inspection by TPI.					
28	8	250.00	Numbers	9.17	2292.50	AT Par	2292.50
	<b>Description:-</b> Supply of Resettable fuse, type Polymeric Positive Temperature Coefficient (PPTC) fuse of make Littlefuse/ Fuzetec/Tyco/Bourn/Raychem, Or batter suitable fuses with trip current shall be supplied as per requirement given below. (i) 2-10V/2A INSPECTED BY TPI						
29	9	800.00	Numbers	11.33	9064.00	AT Par	9064.00
	<b>Description:-</b> Supply of Resettable fuse 24-32V/2A, 24-32V/6A, 60-66V/2A, 60-66V/4A,110V/4A, type Polymeric Positive Temperature Coefficient(PPTC)fuse of make Little fuse/Fuzetec/Tyco/Bourn/ Raychem Or batter ,suitable fuses with trip current shall be supplied as per requirement. INSPECTION BY TPI						
30	10	1.00	Set	166989.25	166989.25	AT Par	166989.25
	<b>Description:-</b> Supply of as made documents (Manuals for Installation, Testing, and maintenance of the system)(One set consists of 6 set of following drawings per station). (i) Manual for installation, Testing, Commissioning and maintenance of the system for Technicians/Jr. Engineers. (Installation and maintenance level ) (ii) Functioning and system overview (Higher Management Level) (iii) Completion documents as per special conditions of contract. (iv)Design & supply of circuits and plans to suit layout given in the signalling plan for Hot Stand by Architecture Electronic Interlocking (EI) system. All Electronic plan and wiring diagram shall be prepared on Autocad Drawing and supplied with USB drive. This will include supply of VDU diagram, MSDAC ACE distribution plan, Fiber distribution plan, Power Equipment layout, Power Distribution diagram, Square sheet, wiring diagrams, Application Logic and Interface circuits, Fuse Analysis, Contact Analysis, Tag Block Analysis, Power supply Distribution / Power Equipment arrangement (with program switch)Diagram, Auto changeover diagram (if supplied by the contractor), and all other relevant drawings. All documentation and drawings for obtaining TSAA approval shall be prepared and supplied by the contractor.NOTE :The contractor shall initially supply 1 set of documents(Paper Prints) for approval of Railways. He shall ensure that each sheet has a block for signature of Railway official as well as a block for signature of firm, duly signed by the authorized signatory of the firm. The name of the work as given by Railways shall be written on every sheet under the work column. All the drawing shall be supplied in a good quality folder foreach station. After approval of comments by Railways, the Contractor will make copies of the approved documents and return the approved documents to Railways. The contractor will then make necessary correction to Application Logic Software duly incorporating Railways' alterations/corrections/comments, if any. After complete testing/ commissioning of the station, Soft Copy of completion documents in one Pen Drive as mentioned above will be submitted to Railways for approval. Along with the completion application logic, difference report(showing addition & deletion in different colours) as compared to earlier approved application logic should also be submitted (in Boolean as well as equivalent circuits or as required by the Railways). After approval of completion application logic by Railways, 5 sets of copies of duly approved soft copy will be submitted to Railways.						
31	11	2.00	Numbers	1023.77	2047.54	AT Par	2047.54
	<b>Description:-</b> Supply of Limit Switches New Top Roller Type with 2 NO +2 NC Contacts suitable for. OEM/Authorized vendor warranty certificate along with authorization letter of OEM to be submitted before supply of material. INSPECTED BY CONSIGNEE						
32	12	200.00	Numbers	5435.90	1087180.00	AT Par	1087180.00
	<b>Description:-</b> Supply of QNA1 (AC immunised relay), 8F-8B, 24VDC along with plug board (Base plate), retaining clips and connectors conforming to BRS:931A, IRS:S34 & IRS:S23. Inspection: BY RDSO.						
33	13	75.00	Numbers	5830.60	437295.00	AT Par	437295.00
	<b>Description:-</b> Supply of Track Relay QTA2 (AC immunized relay), 9 Ohm, 2F/1B, along with plug board (Base plate), retaining clips and connectors conforming to BRS:939A, IRS:S34 & IRS:S23. Inspection: RDSO						
34	14	12.00	Numbers	6600.56	79206.72	AT Par	79206.72
	<b>Description:-</b> Supply of Track Relay QBAT (AC immunized relay), 9 Ohm,4F/2B or 2F/2B along with plugboard (Base plate), retaining clips and connectors conforming to BRS:939A, BRS:938, BRS:966, IRS:S34 & IRS:S23.As required at site INSPECTION BY RDSO						
35	15	10.00	Numbers	4952.68	49526.80	AT Par	49526.80
	<b>Description:-</b> Supply of QNA1K (AC immunized relay), 6F-6B, 24VDC along with plug board (Base plate), retaining clips and connectors conforming to BRS:931A, IRS:S34 & IRS:S23. Inspection: RDSO						
36	16	30.00	Numbers	3322.14	99664.20	AT Par	99664.20
	<b>Description:-</b> Supply of Twin Neutral Line Relay QNNA1, 24V DC, 4F-4B/6F-2B contacts, complete with plug board, retaining clip and connectors. Conforming to BRS: 930A, IRS:S60,, IRS:S34& IRS:S23. (No of each configuration will be decided by Engineer In-charge. (Inspection: RDSO)						
37	17	6.00	Set	125484.08	752904.48	AT Par	752904.48
	<b>Description:-</b> Supply of universal earth leakage detector for 8 channel ( channel 110 V AC/24 VDC /60V Dc/110 v Dc) as per RDSO spec RDSO/SPN/256/2025 VER.2.0 Inspection by RDSO						

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38	18	40.00	Sqm	2579.70	103188.00	AT Par	103188.00	
	<b>Description:-</b> Insulating rubber mat for electrical purpose, Class B, nominal thickness 3.0 mm, size 2000 mm x 1000 mm, suitable for use on 3.3 kV to 11 kV systems, conforming to IS:15652-2006.. INSPECTED BY TPI							
39	19	2.00	Kilometre	65204.91	130409.82	AT Par	130409.82	
	<b>Description:-</b> Supply of flexible cable single core multistrand copper conductors, 1x6 sq.mm confirming to RDSO specification IRS:S: 76/89 with latest amendments. Inspection by RDSO							
40	20	0.50	Kilometre	9059.53	4529.77	AT Par	4529.77	
	<b>Description:-</b> Supply of Jumper wire 1X1mm dia. as per RDSO spec, IRS:S-76/89 with latest amendments of various colours. Inspection: Consignee							
41	21	2.00	Kilometre	22909.95	45819.90	AT Par	45819.90	
	<b>Description:-</b> Supply of flexible cable single core multi stand copper conductors, 1x2.5 sq.mm confirming to RDSO specification IRS:S: 76/89 with latest amendments. Inspection: RDSO							
42	22	2.00	Kilometre	2990.27	5980.54	AT Par	5980.54	
	<b>Description:-</b> Supply of PVC insulated railway signalling indoor single core [ tinned jumper wire] 1X 0.6 mm dia. as per RDSO spec. Nos. IRS:S-76/89 with latest amendments of various colors. Inspection by RDSO							
43	23	4.00	Kilometre	8393.14	33572.56	AT Par	33572.56	
	<b>Description:-</b> Supply of PVC insulated flexible wire 16/ 0.2 mm dia. as per RDSO spec. Nos. IRS:S-76/89 with latest amendments of various colours. Inspection: RDSO							
44	24	1.00	Kilometre	142275.38	142275.38	AT Par	142275.38	
	<b>Description:-</b> Supply of flexible cable single core multistrand copper conductors, 1x10 sq.mm confirming to RDSO specification IRS:S: 76/89 with latest amendments. Inspection by RDSO							
45	25	0.50	Kilometre	322629.13	161314.57	AT Par	161314.57	
	<b>Description:-</b> Supply of flexible cable single core multistrand copper conductors, 1x25 sq.mm confirming to RDSO specification IRS:S: 76/89 with latest amendments. Inspection by RDSO							
46	26	1.00	Kilometre	210409.38	210409.38	AT Par	210409.38	
	<b>Description:-</b> Supply of flexible cable single core multi stand copper conductors, 1x16 sq.mm confirming to RDSO specification IRS:S: 76/89 with latest amendments. Inspection by RDSO							
47	27	160.00	Numbers	1020.47	163275.20	AT Par	163275.20	
	<b>Description:-</b> Supply of earth electrode assembly as per IRSEM DRG.NO. 19-D 6 . Inspection by Consignee.							
48	28	150.00	Numbers	4670.88	700632.00	AT Par	700632.00	
	<b>Description:-</b> Supply of Phenolic Laminated sheet, resin bonded 10mm thick, grade P3 in standard size of 1.22X1.22 Mtr as per spec. Nos IS 2036 of 1974.INSPECTED BY TPI							
49	29	125.00	Numbers	117.23	14653.75	AT Par	14653.75	
	<b>Description:-</b> Supply of lamp holders , switches, two pin (Backelite type) and bulbs (110V) LED for location boxes (Anchor make or ISI mark SWITCHES & BULB -phillips, surya or similar) Inspection: Consignee							
50	30	35000.00	Numbers	88.84	3109400.00	AT Par	3109400.00	
	<b>Description:-</b> Supply of two in two out (4 conductor) Knife edge disconnect terminal block set as per RDSO/SPN/189/2004 VER.3.0 with latest amendment. Inspection: RDSO							
51	31	3500.00	Numbers	12.26	42910.00	AT Par	42910.00	
	<b>Description:-</b> Supply of end plate suitable for disconnect terminal. Inspection: TPI							
52	32	600.00	Metre	152.55	91530.00	AT Par	91530.00	
	<b>Description:-</b> Supply of steel carrier Din rail suitable for fixing disconnect terminal 1 meter long of dimension 35mm X 7.5 mm, 1mm thickness, unslotted. Inspection: TPI							
53	33	7500.00	Numbers	10.71	80325.00	AT Par	80325.00	
	<b>Description:-</b> Supply of end stop suitable for disconnect terminal block Inspection: TPI							
54	34	6.00	Numbers	11403.31	68419.86	AT Par	68419.86	
	<b>Description:-</b> Supply of Pre-wired Crank Handle cum key lock relay box along with LEDs, TEKNIC/SIEMENS make push buttons, wago terminal, string rod, etc. as per Drawing Nos.RST.C.111A. Inspection by Consignee							
55	35	1800.00	Metre	1192.69	2146842.00	AT Par	2146842.00	
	<b>Description:-</b> Supply of GI pipe as per Specn. No. IS 1239 (Part-1)/1990 medium class normal bore of 100 mm, nominal mass of Tube 12.5 Kg (+/-) 10% per meter and complying parameters of specification. Inspection by TPI.							
56	36	15.00	Numbers	10895.41	163431.15	AT Par	163431.15	
	<b>Description:-</b> Supply of Main Signal Post 140 mm outer dia. 5.6 Mtr. Length as per spec Nos IRS S 6/81 with latest amendments. Inspection by TPI							

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

57	37	30.00	Numbers	7719.48	231584.40	AT Par	231584.40	
	<b>Description:-</b> Supply of Main Signal Post 140 mm outer dia. 4.5 Mtr Length as per spec Nos IRS S 6/81 with latest amendments. Inspection by TPI							
58	38	40.00	Numbers	3217.07	128682.80	AT Par	128682.80	
	<b>Description:-</b> Supply of Shunt Signal Post with Base (GI Pipe of 80 mm Dia. Medium class 49 IS Specification IS:1239 Pt-1/1990). Inspection by TPI.							
59	39	32.00	Numbers	10021.08	320674.56	AT Par	320674.56	
	<b>Description:-</b> Supply of Cast Iron Main signal surface base 140mm as per spec Nos IRS S 10 and Drg Nos 2011/M with latest amendments, with CLS Ladder assembly complete for CLS signal 5.5 50 Mtrs long as per RDSO Drg. Nos. SA- 23156. & signal front staging complete assembly. Inspection by TPI.							
60	40	62.00	Numbers	583.67	36187.54	AT Par	36187.54	
	<b>Description:-</b> "Supply of Signal Nos. plates. as per IRSEM Drg . NO.19-D 10 enclosed. Inspection: Consignee( all are epoxy coated enameled number plate/board) Inspection: Consignee							
61	41	10.00	Numbers	638.81	6388.10	AT Par	6388.10	
	<b>Description:-</b> "Supply of A/AG/C/P/G board as per IRSEM Drg. Nos. 19-D10(Sheet 1 to 5) as applicable (all are epoxy coated enameled number plate/board) Inspection by Consignee.							
62	42	3.00	Numbers	2221.44	6664.32	AT Par	6664.32	
	<b>Description:-</b> Supply of Block Section Limit Board as per RDSO Drg. No. SA-2375 (Adv.), with paint and retro-reflective arrangement conforming to Signal Engineering Manual (IRSEM), Drg. No. 12-D1. The board/number plate shall be epoxy-coated and enamelled. Inspection by Consignee.							
63	43	4.00	Numbers	2090.97	8363.88	AT Par	8363.88	
	<b>Description:-</b> Supply of Stop Board as per RDSO Drg No. 7235/B. (Material inspected by Consignee) all are epoxy coated enamelled number plate/board) Inspection by Consignee							
64	44	1.00	Numbers	3327.64	3327.64	AT Par	3327.64	
	<b>Description:-</b> Supply of Goods warning Board as per Drg Nos. JBP/S&T/10/001. Paint and retroreflective arrangement as per IRSEM standard. (all are epoxy coated enameled number plate/board)INSPECTED BY CONSIGNEE							
65	45	150.00	Numbers	318.64	47796.00	AT Par	47796.00	
	<b>Description:-</b> Supply of Hand Cuff Locks / Godrej Navtal lock with common key. Inspection by Consignee.							
66	46	25.00	Numbers	22307.07	557676.75	AT Par	557676.75	
	<b>Description:-</b> Non Metallic (FRP) colour light signal housing multi unit type for railway signalling 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 (Ver. 1.0) or latest and FRP material as per RDSO SPEC. No. RDSO/SPN/151/1997 or latest. Inspection: TPI							
67	47	5.00	Numbers	24254.99	121274.95	AT Par	121274.95	
	<b>Description:-</b> Non Metallic (FRP) colour 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.) and as per SPEC. No. RDSO/SPN/194/2006 Rev.2.0 or latest and FRP material as per RDSO SPEC. No. RDSO/SPN/151/1997 or latest. Inspection: TPI							
68	48	12.00	Numbers	24962.68	299552.16	AT Par	299552.16	
	<b>Description:-</b> Supply of '4 aspect" Signal Unit in FRP body without lenses and transformers as per RDSO Specification RDSO/SPN/194/2006/Rev.2.0 or latest complete and to suit LED signal Lamps and suitable for 140 mm dia. post saves pigment finish on the back side of the and inside. white pigment finish inside the 4 aspect unit to avoid any extra paint cost Inspection: TPI.							
69	49	15.00	Numbers	1188.78	17831.70	AT Par	17831.70	
	<b>Description:-</b> Supply of Off-Set bracket 5-1/2 "for Signals & Routes as per Specification No. IRS: S-10/78 and Drg no. SA-23080(Adv) Alt-1 or with latest amendment. Inspection by Consignee.							
70	50	15.00	Numbers	641.88	9628.20	AT Par	9628.20	
	<b>Description:-</b> Supply of Offset Bracket 3-1/2" for shunt signal. Inspection: Consignee							
71	51	40.00	Numbers	11385.36	455414.40	AT Par	455414.40	
	<b>Description:-</b> Supply of position light shunt signal Unit. as per RDSO Nos. SA23840. Inspection: TPI							
72	52	8.00	Numbers	20189.40	161515.20	AT Par	161515.20	
	<b>Description:-</b> Supply of 1 Way Junction Type Route Indicators as per RDSO Nos.SA23401-6 as perIRS:S-66/84 or latest. INSPECTION BY TPI							
73	53	3.00	Numbers	28435.07	85305.21	AT Par	85305.21	
	<b>Description:-</b> Supply of 2 Way Junction Type Route Indicators as per RDSO Nos.SA23401-6 as perIRS:S-66/84 or latest. INSPECTION BY TPI							
74	54	3.00	Numbers	24823.97	74471.91	AT Par	74471.91	

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

				<b>Description:-</b> Supply of 3 way junction Route Indicator in FRP body without lenses and transformers as per RDSO Specification RDSO/SPN/194/2006/Rev. 2.0 or latest complete and to suit LED signal Lamps Inspection by TPI			
	55	4.00	Numbers	52459.68	209838.72	AT Par	209838.72
75				<b>Description:-</b> Supply of 4/5 way junction Route Indicator in FRP body without lenses and transformers as per RDSO Specification RDSO/SPN/194/2006/Rev. 2.0 or latest complete and to suit LED signal Lamps Inspection by TPI.			
	56	20.00	Numbers	3034.77	60695.40	AT Par	60695.40
76				<b>Description:-</b> Supply of Calling-on Unit with as per RDSO Drg Nos 24351(Adv.) Alt1 INSPECTED BY-TPI			
	57	85.00	Numbers	3247.10	276003.50	AT Par	276003.50
77				<b>Description:-</b> Supply of Track feed battery chargers of 10A rating to spec. nos. IRS:S.89/2025 Ver 2.0 with latest amendment. Charger shall be suitable for charging 80 AH battery. Inspection: RDSO			
	58	350.00	Numbers	1479.36	517776.00	AT Par	517776.00
78				<b>Description:-</b> Supply of track lead junction boxes as per Drg. Nos. RST11509 made from fiber glass along with terminal blocks. The TLJB should be BLACK in colour. Inspection: TPI			
	59	160.00	Numbers	5135.30	821648.00	AT Par	821648.00
79				<b>Description:-</b> Supply of B type choke to specn.Nos.IRS.S.65/83 with latest amendments. Inspection: RDSO			
	60	80.00	Numbers	1816.98	145358.40	AT Par	145358.40
80				<b>Description:-</b> Supply of adjustable Track Feed Resistance, 30 ohms as per RDSO Drg. Nos. SA-20161-66M/M with latest amendments (with Phenolic moulded base). Inspection: RDSO			
	61	250.00	Numbers	1891.61	472902.50	AT Par	472902.50
81				<b>Description:-</b> Supply of low-maintenance Lead Acid Secondary Cells, 2V / 80 Ah, conforming to IRS: 88/2004 with latest amendments, with transparent container made of PPCP (Polypropylene Co-polymer). Inspection by RDSO.			
	62	5000.00	Metre	57.98	289900.00	AT Par	289900.00
82				<b>Description:-</b> Supply of PVC jacketed wire rope for Track Lead connections. PVC jacketed wire rope should be of Galvanised steel wire rope 6 mm dia (6x19 stranded wire with steel core of 6 mm dia) sheathed with PVC 2mm wall thickness, overall thickness being 10 mm. PVC sheath should be made of type 6 compound as per IS 5831 of 1970. Reclaimed or recycled material should Not be used. Inspection by TPI			
	63	150.00	Numbers	289.54	43431.00	AT Par	43431.00
83				<b>Description:-</b> Supply of Hydrometer, Exide make or similar for measuring specific gravity of Battery Graded acid with mounting stand in location Boxes. Consignee inspection under manufacturer certificate. Inspection by Consignee			
	64	1200.00	Metre	454.82	545784.00	AT Par	545784.00
84				<b>Description:-</b> Supply of DWC pipe 120 mm(Orange Colour) outer dia 103.5 mm inner dia. made of polyethylene in 6 mtrs. straight lengths along with one coupler for every 6 mtr.as per specn. Is14930 or latest anti rodent and flame retardant. Or as per site requirement. INSPECTION BY TPI			
	65	5000.00	Numbers	117.01	585050.00	AT Par	585050.00
85				<b>Description:-</b> Supply of ARA Terminal Blocks with links made of PBT specn. No. IRS-75/2006 (Rev.2) with latest amendments and RDSO Drg. No. S-23741. INSPECTION BY RDSO			
	66	500.00	Numbers	180.44	90220.00	AT Par	90220.00
86				<b>Description:-</b> Supply of cartridge fuse block made of PBT as per RDSO Drg. Nos. SA - 23748 Alt. 4 and Spec. Nos. IRS-S-75/2006 with latest amendment. Fuse block shall be suitable for round head type fuses. Inspection: RDSO			
	67	600.00	Numbers	80.24	48144.00	AT Par	48144.00
87				<b>Description:-</b> "Supply of non-deteriorating type low voltage cartridge fuse rate current 2Amp (qty (30%) / 4A( qty. 40%) /6A(qty. 10%) /10 A(qty 20%) in equal proportion round head type as per spec No IRS-S-78/2006 with latest amendment.(Inspection by RDSO)"			
	68	85.00	Numbers	18556.37	1577291.45	AT Par	1577291.45
88				<b>Description:-</b> Supply of Apparatus Case with miniature 'E' type locks with keys (1 key per 5 location boxes) of ward Nos. 41 (E type lock & key as per spec. Nos IRS S 30/1964 & RDSO Drg.Nos. SA 3376/M & 3377/M respectively with latest Amendment) on both the doors, duly painted with red oxide. Single case as per Drg No. SK-783(Sheet-1/2) with latest alteration. Inspection:TPI			
	69	40.00	Numbers	14816.90	592676.00	AT Par	592676.00
89				<b>Description:-</b> Supply of Apparatus Case with miniature 'E' type locks with keys (1 key per 5 location boxes) of ward Nos. 41 (E type lock & key as per spec. Nos IRS S 30/1964 & RDSO Drg. Nos. SA 3376/M & 3377/M respectively with latest Amendment) on both the doors, duly painted with red oxide. Half case as per Drg No.SK-783(Sheet-2/2) with latest alteration. Inspection: TPI			
	70	60.00	Set	8670.00	520200.00	AT Par	520200.00

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

				<b>Description:-</b> Supply of Ground Connection complete set suitable for IRS type Point machine for ordinary turnout of 60 Kg rails as per RDSO Drg.RDSO-S-3361.INSPECTED BY TPI				
91	71	70.00	Numbers	384.49	26914.30	AT Par	26914.30	
				<b>Description:-</b> Supply of "S" shape GI bend pipe Medium class, 50 mm dia. and of 1.2 mtrs length, for cable entry in point machines as per Dy CSTE/C/BPL/011 . Inspection:TPI				
92	72	300.00	Set	378.55	113565.00	AT Par	113565.00	
				<b>Description:-</b> Supply of William stretcher nylon insulation set suitable for ground connections per RDSO drg Nos T-10367, , T-10384 as applicable and to the spec IRS S 23 & 40/84 with latest amendment. INSPECTED BY TPI				
93	73	150.00	Set	172.91	25936.50	AT Par	25936.50	
				<b>Description:-</b> Supply of Gauge Tie plate nylon insulation as per RDSO Drg. No.(T-10372- 1 no., T-10368- 3 nos.,T-10371- 6 nos. in each set) and to the Specification IRS: S-23 & 40with latest Amendment as applicable. INSPECTED BY CONSIGNEE				
94	74	150.00	Numbers	290.50	43575.00	AT Par	43575.00	
				<b>Description:-</b> Supply of Tongue attachment nylon insulation set consisting of one insulating plate as per Drg no: RST-106961 & 3 nos of Ferrules with collars to suit rodding supplied as per RDSO spec & Drg.no: RST-10692 (Insp Agency- Consignee				
95	75	30.00	Numbers	3067.89	92036.70	AT Par	92036.70	
				<b>Description:-</b> Supply of Desk type Electronic Magneto Telephone as per spec No IRS TC79/2000 AMDT.4.0 or with latest Amendments. INSPECTED BY CONSIGNEE				
96	76	200.00	Litre	144.88	28976.00	AT Par	28976.00	
				<b>Description:-</b> Supply of Chlorinated rubber Paint as per IS 13467 : 1992 suitable for applying on insulated rail joint. Colour:- Grey. Packing-In 20 liter Drum/cane. ( Warranty Period : Upto 12 months from the date of supply) INSPECTED BY CONSIGNEE				
97	77	2.00	Set	14741.47	29482.94	AT Par	29482.94	
				<b>Description:-</b> Supply of SPT phone for IBS. (which shall be installed on IBS post) along with one no. of slave unit being installed in SM'S office (both master and slave unit must work on 24V DC and must be suitable for 25 KV AC RE area). as per instructions of site in charge , ACES make or similar . Note : The contractor shall ensure that there is no interference in communication between the master and slave units owing to power hump due to RE induction. Cable from IB signal unit to the cable termination board in SM's room/relay room will be provided by the Railways. It shall work on OFC or quad cable & it shall ensured by contractor before supply of the item. INSPECTION BY CONSIGNEE				
98	78	10.00	Numbers	45233.56	452335.60	AT Par	452335.60	
				<b>Description:-</b> "Supply of digital multi meter digital type, three & three forth digit (3&3/4 digit).. Make - Fluke 111 or better . INSPECTION BY CONSIGNEE				
99	79	2.00	Numbers	8577.51	17155.02	AT Par	17155.02	
				<b>Description:-</b> Supply of Digital Cable Insulation Tester for measurement of cable insulation resistance with auto range 0-500 V DC. Motwani or from any reputed make. INSPECTION BY CONSIGNEE				
100	80	20.00	Pair	25288.28	505765.60	AT Par	505765.60	
				<b>Description:-</b> Supply of LAN Extender(range up to 5 Kms) as per RDSO Specifications RDSO/SPN/TC/82/2020 Rev.2.0. or latest. Make/Model Team Engg/Vayu 3002 or similar.(Provided with 3 years warranty) INSPECTION BY TPI				
101	82	25.00	Numbers	5002.24	125056.00	AT Par	125056.00	
				<b>Description:-</b> Calling on signal LED Signal Lighting unit 110 V AC in existing CLS housing and compatible with AC LED ECR as per RDSO Spec RDSO/SPN/153/2023 REV 5 or latest. (NOTE: Item should be supply with minimum warranty period of 5 years) . INSPECTION BY RDSO				
102	83	8.00	Numbers	3915.42	31323.36	AT Par	31323.36	
				<b>Description:-</b> Supply of 24F straight joint enclosure(SJC) complete with all accessories as per TEC Specification TEC/GR/TX/ OJC-002/03/ APR/2010 or latest of reputed make like Raychem, Birla VXL, 3M, shakti or similar.INSPECTION BY CONSIGNEE				
103	84	10.00	Numbers	2412.75	24127.50	AT Par	24127.50	
				<b>Description:-</b> Supply of Thermo shrink Jointing Kit for jointing underground 0.9mm dia. cond. 4/6 quad cables asper specn No. IRS: TC-77/2012(Rev.3.0) with Amend. 1, 2 & 3 or latest. INSPECTION BY RDSO				
104	85	6.00	Numbers	14670.05	88020.30	AT Par	88020.30	
				<b>Description:-</b> Supply of Table size length 1800mm width 900mm height 760mmC-Frame leg 200mm wide made up of aluminum profile and CRCA Formed section having provision for wire management top of 25mm thick pre laminated plywood(Fire Resistant and Water resistant), Edge bending of edge by through feed machine. Dotted embossed cable duct and perforated steel modesty panel on visitors side. All steel components are epoxy powder coated after seven tank anti corrosion treatment of surface with three drawer. Godrej or similar .INSPECTION BY CONSIGNEE				

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

105	86	10.00	Numbers	4620.49	46204.90	AT Par	46204.90	
	<b>Description:-</b> Supply of VISITING Chair WITH ARM(PERFECT) (PERFECTSHOOQ) or similar INSPECTION BY CONSIGNEE							
106	87	5.00	Numbers	17850.08	89250.40	AT Par	89250.40	
	<b>Description:-</b> Supply steel Almira of size 1980 mm height, 915 width & 485 depth of gauge22 with 5 shelves Almira shall be made from CRCA stool sheet of 20 gauge (for panel portion) best brand Almira shall be100% epoxy powder coated. Godrej ,GEE-KEN make or similar model. INSPECTION BY CONSIGNEE							
107	88	5.00	Numbers	1882.12	9410.60	AT Par	9410.60	
	<b>Description:-</b> Supply of One Quad V.F. 2-T Transformer joint assembly of VF Transformers /1120:470 as per IRS/TC/76/2021.INSPECTED BY CONSIGNEE							
108	89	6.00	Numbers	935.16	5610.96	AT Par	5610.96	
	<b>Description:-</b> Supply of isolation cylindrical type for 2T joint as per RDSO specification transformer as per IRS/TC//76/2021 of impedance ratio 1120/470. INSPECTED BY CONSIGNEE							
109	90	15.00	Numbers	1578.37	23675.55	AT Par	23675.55	
	<b>Description:-</b> Supply of VF tapping transformer as per IRS/TC/22/2021 Ver.1.1 of impedance ratio 600:470 . INSPECTED BY Consignee							
110	91	6.00	Numbers	6751.63	40509.78	AT Par	40509.78	
	<b>Description:-</b> Supply of Office Revolving Chair Godrej Make Model No.9u02r Bravo Or Similar of reputed brand. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply. INSPECTED BY CONSIGNEE							
111	92	3.00	Numbers	14278.69	42836.07	AT Par	42836.07	
	<b>Description:-</b> Supply of Wooden block closet of size700 mm x 700 mm X 900 mm made of teak wood frame and 10 mm thick water proof Phonolic hylam sheet and all four sides having two compartment inside and two doors on opposite sides as per Drg No RST.C.110. INSPECTED BY CONSIGNEE							
112	93	10.00	Numbers	13678.00	136780.00	AT Par	136780.00	
	<b>Description:-</b> Supply of Rack Mounted Fiber Management System (Fully loaded) 19" rack mountable for 24 fiber FMS of SC adapters of reputed make as per specification attached. INSPECTED BY TPI							
113	94	15.00	Set	23598.95	353984.25	AT Par	353984.25	
	<b>Description:-</b> Supply of maintenance free earth asper RDSO specification No. RDSO/SPN/197/2016 ver. 1.0consisting of single earth pit which includes supply of 35 mm <sup>2</sup> /16mm <sup>2</sup> /10 mm <sup>2</sup> multistrand single core PVC insulated copper cable as per IS694 for connecting main earth electrode to MEEB in the equipment room in duplicate as per manufacturers recommendations and as per RDSO specifications as follows: A. Copper bonded steel electrode of 3.0 meters long, 17 mm diameter with copper bonding thickness of minimum 250 microns and UL listed and marked: 1 No. B. Earth enhancement compound of RDSO approved brand supplied in sealed bag of minimum 10 KG: 3 No.C. Copper strip of 150mm X 25 mm X6 mm to terminate earth rod: 1 No.D. Copper strip of 300mm X 25 mm X6 mm (MEEB): 1 No. (Material inspected by RDSO) (WARRANTY- 5 YEARS) (Also Refer Annexure- G)							
114	95	10.00	Kilometre	53849.29	538492.90	AT Par	538492.90	
	<b>Description:-</b> Supply of HDPE duct(Colour:- Orange/Blue/Green,Except Black) 40/33 MM as per TECGR/CDS/08-02 NOV- 04 and as per RDSO/SPN/TC/45/2013 REV.2.0 WITH amendment 3.0and latest along with following accessories with End Plugs, Cable Sealing Plugs and Plastic Couplers as per standard practice.Material inspected by TPI							
115	96	1.00	Numbers	337710.00	337710.00	AT Par	337710.00	
	<b>Description:-</b> Supply of RFID Electronic Marker Locator System(As Per annexure-H) for locating S&T/Power Cables with the help of RFID Marker. Make - Stanlay/3M or better. It shall capable to either built in GPS module/system or app based GPS tracking system for GPS marking of RFID Marker INSPECTED BY TPI							
116	97	350.00	Numbers	24.55	8592.50	AT Par	8592.50	
	<b>Description:-</b> Supply of "MOV, 20mm dia, for 25V AC/31V DC supply with maximum clamping voltage of 77V at 20A and peak single pulse(8/20us) rating of 2KA. EPCOS, Bourns or Little fuse make.(S20K25:24VDC)INSPECTED BY TPI							
117	98	300.00	Numbers	25.50	7650.00	AT Par	7650.00	
	<b>Description:-</b> Supply of "MOV, 20mm dia, for 40V AC/56V DC supply with maximum clamping voltage of 135V at 20A and peak single pulse(8/20us) rating of 2KA. EPCOS, Bourns or Little fuse make.(S20K40:48VDC)INSPECTED BY TPI							
118	99	300.00	Numbers	24.78	7434.00	AT Par	7434.00	
	<b>Description:-</b> Supply of "MOV, 20mm dia, for 11V AC/14V DC supply with maximum clamping voltage of 36V at 20A and peak single pulse(8/20us) rating of 2KA. EPCOS, Bourns or Little fuse make.(S20K11:12VDC)INSPECTED BY TPI"							

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

119	100	250.00	Numbers	24.85	6212.50	AT Par	6212.50	
	<b>Description:-</b> Supply of "MOV (S20K50:60VDC) 20mm dia, for 50V AC/65V DC supply with maximum clamping voltage of 135V at 100A and peak single pulse(8/20us) rating of 6.5KA. EPCOS, Bourns or Little fuse make. Inspection by TPI							
120	101	250.00	Numbers	24.68	6170.00	AT Par	6170.00	
	<b>Description:-</b> Supply of "MOV (S20K95:110VDC)20mm dia, for 95V AC/125V DC supply with maximum clamping voltage of 250V at 100A and peak single pulse(8/20us) rating of 6.5KA. EPCOS, Bourns or Little fuse make. Inspection by TPI							
121	102	250.00	Numbers	27.01	6752.50	AT Par	6752.50	
	<b>Description:-</b> Supply of "MOV (S20K115:110VAC) 20mm dia, for 115V AC/150V DC supply with maximum clamping voltage of 300V at 100A and peak single pulse(8/20us) rating of 6.5KA. EPCOS, Bourns or Little fuse make. Inspection by TPI							
122	103	150.00	Numbers	39.85	5977.50	AT Par	5977.50	
	<b>Description:-</b> Supply of TVS Diodes 1.5 KE10. INSPECTED BY TPI							
123	104	3.00	Numbers	6992.33	20976.99	AT Par	20976.99	
	<b>Description:-</b> Supply of hand operated track drill machine for drilling bond wire holes of size 9/32 inch in railway track suitable for 52 kg or 60 kg.(Supply with 10 nos. of drill Bit of JK MAKE OR BATTER)INSPECTION BY CONSIGNEE							
124	105	2.00	Numbers	106459.96	212919.92	AT Par	212919.92	
	<b>Description:-</b> Supply of tool box complete with megger asper Annexure A.INSPECTION BY consignee.							
125	106	3.00	Set	304282.60	912847.80	AT Par	912847.80	
	<b>Description:-</b> "Supply of 2V/300 AH CAPACITY VRLA BATTERY AS PER RDSO SPECN. NO. IRS-S-93/96 (A) WITH AMD.1 OR LATEST. QUANTITY 1 SET = 55+(5 NOS SPARE) = 60 NOS CELL (ITEM ID : 3100158011). MAKE:- EXIDE, COSLIGHT INDIA TELECOM PVT. LTD./UNA, Amaraja OR SIMILAR (Warranty Period : Up to 30 months from the date of delivery.) Inspection: RDSO							
126	107	2.00	Numbers	36409.59	72819.18	AT Par	72819.18	
	<b>Description:-</b> TELECOM-PORITION Supply of covered 19" Racks of size 2200 mm X 600 mm X 600 mm (WQ/Vero President/Rittal/APC make) complete with all fittings including DC Fans (48 V) -2 Nos, separator sheet/plate to keep testing equipments - 1 No and AC Power distribution panel (horizontal fitting) with power sockets and fuse/MCB protection (minimum 6 Nos of 230V- 15A/5A. combined) and other accessories. Rack should have compatibility with all equipment conforming to DIN 41494 or equivalent EIA/ISO/EN standard, Manufacturer must certify that products are complied with DIN41494 or equivalent EIA/ISO/EN/CEA/UL standards (Inspection by TPI)							
127	108	3050.00	Metre	19.26	58743.00	AT Par	58743.00	
	<b>Description:-</b> Supply of UTP indoor cable CAT 6 , to support 10/100/1000 Mbps .The category 6 cable should consists of 4 pair of solid insulated copper 23 AWG(0.57mm) pairs separated with a central slit film, insulation -polyethylene. Make Voltaic Cable Pvt Ltd, Havells India Limited, Delton Cables,OTS Cable, Finolex Cables or Similar. INSPECTED BY Consignee.							
128	109	2.00	Numbers	185119.91	370239.82	AT Par	370239.82	
	<b>Description:-</b> Supply of OFC integrated access device 1U height or1.5 U height/19" rack mountable for LVCD/Digital Axle Counter purpose with four tributary slots & four potential free contacts to know quad status , front panel Quad indication status vide LEDs, Optical support vide 4 SFP port supporting TDMoIP in the unit supporting dual core OFC and 04 100/1000 mbps Ethernet port (POE or NON POE as required at site ) for surveillance/smoke detector, optical SFP ports provided distance support to be 20 KMs, unit to support one E&M card supporting four 2W/4W configurable & four quad port 2W/4W. Each port configurable to support axle counter/UFSBI/control phone/EC/RTU and one telnet/SNMP port, unit to support 04 E1 ports in addition to 04 SFP ports of TDMoIP, dual DC power supply 18 to 72 VDC support , unit to support change over mechanism automatic between E&M (V.21) to E1 port & optical fiber TDMoIP (SFP) & quad path for E&M interface option, one number cable to be provided along with E&M. Equipment should be able to integrate with STM E1 & IPMPLS 1Gbps ports FABIO 2CX+/OFC/ DC & module 2W/4W four port E&M (1+1) protection Make: TEAM ENGG/FABIO or equivalent. Supply inspection by TPI Note:Item Should supply with minimum warranty Period of 3 years.							
129	110	1.00	Numbers	21880.76	21880.76	AT Par	21880.76	
	<b>Description:-</b> SUPPLY OF 4 port x10G SFP module card ( 2 No's of 2 Port x 10G SFP module card )INSPECTED BY TPI Note:Item Should supply with minimum warranty Period of 3 years							
130	111	1.00	Numbers	25653.31	25653.31	AT Par	25653.31	
	<b>Description:-</b> SUPPLY OF 8 port x 1GbE module card.( 2 No's of 4 Port x 1Gb SFP module card )INSPECTED BY TPI Note:Item Should supply with minimum warranty Period of 3 years							
131	112	1.00	Numbers	54701.90	54701.90	AT Par	54701.90	
	<b>Description:-</b> SUPPLY OF 16 port channelized E1 interface card ( 2 No's of 8 port channelized E1 interface card )INSPECTED BY TPI Note:Item Should supply with minimum warranty Period of 3 years							
	113	8.00	Numbers	7771.44	62171.52	AT Par	62171.52	

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

132	<b>Description:-</b> SUPPLY OF SFPs for 1Gbe (optical ) / RJ 45 ports as per the site requirement INSPECTED BY TPI. Note:Item Should supply with minimum warranty Period of 3 years						
133	114	4.00	Numbers	19239.98	76959.92	AT Par	76959.92
	<b>Description:-</b> SUPPLY OF SFP + 10G (40 Km) SMF, 1550nm for 40KM transmission working on single or dual fiber as per site requirement INSPECTED BY TPI. Note:Item Should supply with minimum warranty Period of 3 years						
134	115	1.00	Numbers	2017.56	2017.56	AT Par	2017.56
	<b>Description:-</b> Supply of DDF(120 Ohms) for terminating 16 E1s of wrapping type and mountable on 19" rack . (Maximum width 2U size)INSPECTED BY Consignee.						
135	116	1.00	Numbers	298515.28	298515.28	AT Par	298515.28
	<b>Description:-</b> "Supply of Standard 19"" Rack - mountable, -48V DC Working, Add Drop STM-4 SDH Equipment conforming to TEC GR No.GR/SDH/-010/03 JA 2011 (with the latest amendment) complete with redundant power supply, 2 Nos. STM 4 of Aggregate L 4.2 Optical interface Modules/Cards, one each for East and West side TX/RX, and 2 nos. of STM-1 S1.1 or L1.1 Optical interface modules complete with 5-meter long Optical Patch Cords, 63 E1s cards with DDFs and Cable assembly for termination to DDF, and minimum 8 nos. of 10/100 Base-T Ethernet Ports/Fast Ethernet on SDH (EoS) 10/100 Base-T interface Module/Card supporting with LCAS and GFP, Order wire sub-rack, DDF installation Material, Manuals, and other accessories along with Complete Engineering Order Wire (EOW) arrangement. Note: i) It should have the necessary software/Firm ware for Local/remote Monitoring/Configuration of the equipment through NMS. ii) Two no MCBs of appropriate rating along with necessary connecting cords and cables for the Power Supply Module/Card should be supplied and installed as per instruction on the site in charge. INSPECTED BY TPI						
136	Please see Item Breakup for details.			26684.64		AT Par	26684.64
	<b>Description:-</b> Station Working Rules (SWR) and Station Working Rule Diagram						
137	118	1.00	Numbers	2521.57	2521.57	AT Par	2521.57
	<b>Description:-</b> Supply of DC Power distribution panel to cater DC power requirements of IPMPLS/STM Multiplexers/PD Muxes / EOW / FANS to be fixed in 19"" rack. (Minimum 8 Nos of DC distribution arrangement with MCB's of suitable rating for -ve. Connecting copper strip for +ve)INSPECTED BY CONSIGNEE						
138	119	3.00	Numbers	14160.18	42480.54	AT Par	42480.54
	<b>Description:-</b> Supply of L 2 Manageable non-POE 24 port switch with minimum 02 SFP ports. As per RDSO Specification No.RDSO/SPN/TC/83/2020 Rev2.0 or latest. Make- CISCO/HPE/Juniper or equivalent. Inspection by TPI.						
139	120	5.00	Numbers	20047.74	100238.70	AT Par	100238.70
	<b>Description:-</b> Supply of Control IP telephones without hands free and gooseneck operation for way side station as per clause 11 of RDSO specification No. RDSO/SPN/TC/99/2012 Rev.2 or latest. IP phone should be compatible with the existing make(Existing Make:Yealink) working in section INSPECTED BY TPI. Note:Item Should supply with minimum warranty Period of 3 years						
140	121	4.00	Numbers	15058.44	60233.76	AT Par	60233.76
	<b>Description:-</b> "Supply of 8 port gigabit L2 managed switch as per RDSO Spec no RDSO/SPN/TC/83/2020 Rev 2.0 or above with 8 nos 10/100/1000 base-T and 2 nos SFP ports loaded with SFP module INSPECTED BY TPI Note:Item Should supply with minimum warranty Period of 3 years						
141	122	1525.00	Metre	29.03	44270.75	AT Par	44270.75
	<b>Description:-</b> Supply of STP Cat 6 cable. It should be compliant with latest EIA/TIA-568-B.2-1 standard Make Voltaic Cable Pvt Ltd, Havells India Limited, Delton Cables,OTS Cable, Finolex Cables or Similar.INSPECTED BY CONSIGNEE						
142	123	1.00	Numbers	12896.40	12896.40	AT Par	12896.40
	<b>Description:-</b> Supply of Rack 24U with all accessories Make- Comrack, Rittal, D-Link or similar INSPECTED BY CONSIGNEE						
143	124	1000.00	Metre	23.40	23400.00	AT Par	23400.00
	<b>Description:-</b> Supply of PVC Cable 5 pair 0.5mm dia. Copper conductor of reputed .Make- Finolex/RR Kabel/ L&T or equivalent. INSPECTED BY CONSIGNEE						
144	125	10.00	Numbers	2774.68	27746.80	AT Par	27746.80
	<b>Description:-</b> Supply of SFP-BaseT 1G Small form-factor pluggable transceiver compatible with managed L2 switches as per specification attached Annexure-Q. Inspection by TPI Note:Item Should supply with minimum warranty Period of 3 years						
145	126	10.00	Numbers	19239.98	192399.80	AT Par	192399.80
	<b>Description:-</b> Supply of SFP + 10G (40 Km) SMF, 1550nm for 40KM transmission working on single or dual fiber as per site requirement INSPECTED BY TPI Note:Item Should supply with minimum warranty Period of 3 years						
146	127	20.00	Numbers	1537.80	30756.00	AT Par	30756.00

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

	<b>Description:-</b> Supply of PIJF CABLE JOINTINGKIT as per RDSO Spec. No. RDSO/SPN/TC/57/2015 Rev.1Amdt-1 or latest (TSF-3). (For 20 pair or 50 pair cable)INSPECTED BY TPI						
147	128	500.00	Metre	56.37	28185.00	AT Par	28185.00
	<b>Description:-</b> Supply of PVC insulated flexible 3 core X 2.5 sq.mm multi strand power cable as per specification no.IS 694: 1990 reaffirmed 1995 or latest. Make: Polycab/Anchor/Havells or equivalent. INSPECTED BY TPI						
148	129	20.00	Numbers	772.45	15449.00	AT Par	15449.00
	<b>Description:-</b> Supply of Analog push button telephone phone with CLI facility. Make-Beetle/BPL or similar. INSPECTED BY CONSIGNEE						
149	130	10.00	Numbers	5583.17	55831.70	AT Par	55831.70
	<b>Description:-</b> "Supply of GSM 4G FCT phone with 4G connectivity (Fixed Cellular phone) with built in battery and extendable battery charger as per specifications attached. Nlake - Visiontek, Beetel, Binatone or similar or latest. Accepted Make: Beetal Model F-3-4G. INSPECTED BY CONSIGNEE						
150	131	500.00	Metre	26.25	13125.00	AT Par	13125.00
	<b>Description:-</b> "Supply of 2 Core PVC insulated shielded wire PA cable 24 strand copper conductor of 0.20 mm(24/0.20 mm) as per IS Spn. No.694/1900. Make-Brimson/Deltron /Network or equivalent. Inspection By Consignee						
151	132	4.00	Numbers	1884.99	7539.96	AT Par	7539.96
	<b>Description:-</b> Supply of column speaker 10/15 watt. Make Ahuja(SCM-15T) or equivalent. Inspection By Consignee						
152	133	4.00	Numbers	2893.00	11572.00	AT Par	11572.00
	<b>Description:-</b> Supply of Horn speaker Make: Ahuja (SUH-40) or equivalent. INSPECTED BY CONSIGNEE						
153	134	1.00	Numbers	21498.99	21498.99	AT Par	21498.99
	<b>Description:-</b> Supply of PA amplifier Make: Ahuja SSA-250DP or equivalent. INSPECTED BY CONSIGNEE						
154	135	1.00	Numbers	3925.00	3925.00	AT Par	3925.00
	<b>Description:-</b> "Supply of Wired Cardioid Microphone Make :HITONE( BCM-66) or equivalent. INSPECTED BY CONSIGNEE						
155	136	10.00	Numbers	1986.34	19863.40	AT Par	19863.40
	<b>Description:-</b> Supply of One Quad V.F. 2-T Transformer joint assembly of VF Transformers /1120:470 as per IRS/TC/76/2000 With Amd-1.INSPECTED BY CONSIGNEE						
156	137	10.00	Numbers	986.93	9869.30	AT Par	9869.30
	<b>Description:-</b> Supply of isolation cylindrical type for 2T joint as per RDSO specification transformer as per IRS/TC//76/2000 With Amd-1 of impedance ratio 1120/470. INSPECTED BY TPI						
157	138	1.00	Numbers	18343.49	18343.49	AT Par	18343.49
	<b>Description:-</b> Supply of Ultra isolation transformer 230/230-1.5 KVA with MOV protection on either side to provide "X" protection and supply of crow bar surge protection circuit for 48 V DC side to provide "y" protection. INSPECTED BY TPI						
158	139	10.00	Numbers	499.58	4995.80	AT Par	4995.80
	<b>Description:-</b> Supply of push button telephones suitable for connecting with way side equipment as per TEC specification no. GR/TEL-02/04 Sept 2002 with latest amendment from DOT/TEC. Inspection by Consignee.						
159	140	1.00	Numbers	162769.42	162769.42	AT Par	162769.42
	<b>Description:-</b> Supply of 2 Mb programmable primary digital drop insert multiplexer operating 48 volts DC complete as per specification RDSO/TC- 68/2012Puncan make or similar with latest amendment with conference facility and other stipulations of tender document fully wired and equipped for 30 channel complete with power supply card, remote control, supervision facility to accommodate data interface card in multi drop mode and should be able to support card needed for video conferencing and ISDN. It shall also support NMS operations from local/remote location. The chassis shall support 4 E1 card. The Mux should be equipped with following configuration. (i)2/4 wire E&M card for 8 circuits (ii) Subscriber loop card for minimum 8 circuit (iii) Exchange Interface card for minimum 12 circuit. MUX shall be compatible with existing link/NMS of Make: Webfil. Inspection by TPI Note:Item Should supply with minimum warranty Period of 3 years						
160	141	1.00	Numbers	138997.90	138997.90	AT Par	138997.90
	<b>Description:-</b> Supply of VRLA fully charged battery 48 V DC /300 AH (stackable) as per IRS: S-93/96(A)(amd-1) or latest. INSPECTED BY RDSO						
161	142	1.00	Numbers	131250.00	131250.00	AT Par	131250.00
	<b>Description:-</b> "Supply of SMPS based Battery chargers [Float Cum Boost Charger] (48 V DC 50 Amps) consisting of 25A modules in (N+2) configuration conforming to RDSO Specification No. RDSO/SPN/TL/23/99 (Ver.-4) Amd 1 or later. mentioned in Annexure-O of tender documents [Inspection by RDSO]"						

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

162	143	60.00	Metre	150.00	9000.00	AT Par	9000.00	
	<b>Description:-</b> Supply of Paramite Battery Wire / Cable Colour Black Redand Green. conforming to RDSO Specn. No. RDSO/PE/Spec/TL/0027- 2002 (Rev 0) or later.Inspection by TPI							
163	144	1000.00	Metre	9.31	9310.00	AT Par	9310.00	
	<b>Description:-</b> "Supply of Cable (D-8 wire ) conductor composite conductor of 4 tinned copper and 3 Galvanized high tensile wire (to give strength) of at least size of 0.29 mm dia . wire insulation HDPE insulation of 2.35mm dia twisting having 150mm patch. Each bundle 500 Meters .INSPECTED BY CONSIGNEE							
164	145	20.00	Numbers	339.20	6784.00	AT Par	6784.00	
	<b>Description:-</b> "Supply of small sized regulated LMLA Battery-IS 16046, Nominal voltage of battery 6.0 Volt, Rated capacity at C20 discharge 4.5 (AH), material container polypropylene. Make Exide, HBL,Amaron or similar.INSPECTED BY TPI							
165	146	30.00	Metre	2198.10	65943.00	AT Par	65943.00	
	<b>Description:-</b> Supply of self support mast/Complete Triangular 11" or higher Lattice(Guyies) Mast assembly along with mast monting unit consists of: (a)Supply of Triangular 11"or higher Lattice (Guyies)Mast/ Self Supported Mast Assembly with sections of approx 03 mtr.each (b) MS pipes with IS certification of outer diameter of 1" or higher should be used. INSPECTED BY TPI							
166	147	1.00	Numbers	82399.40	82399.40	AT Par	82399.40	
	<b>Description:-</b> "Supply of Lightning Protection System consist of: 1.) Class D 48V SPD -1 Nos. 2.) Copper Lightning Arrestor - 1Nos. 3.) LPU - 1 Nos. 4.)Aviation Lamp - 1 Nos. 5.)RF Surge Arrestor - 1Nos. As per latest TAN STS/E/TAN/3006 ver3.0 dated:08/01/2025 of RDSO Inspection Authority: TPI							
167	148	2.00	Numbers	14631.29	29262.58	AT Par	29262.58	
	<b>Description:-</b> "Supply of 6 TB Hard Disk (SATA HDD or compatible with NVR speed up to 800MB/s) Make Seagate/Toshiba/WD. Inspected by Consignee Note:Item Should supply with minimum warranty Period of 3 years							
168	149	100.00	Metre	11.04	1104.00	AT Par	1104.00	
	<b>Description:-</b> "Supply of 6 core metal strengthened outdoor unarmoured optical fiber cable as per ITU-T-G652-D Make Himalaya, Finolex, KEC, Sterlite or better. INSPECTION BY CONSIGNEE"							
169	150	5.00	Numbers	1758.82	8794.10	AT Par	8794.10	
	<b>Description:-</b> "Supply of HDMI CABLE 10 METER WITH CONNECTORS AT BOTH ENDS. INSPECTION BY CONSIGNEE							
170	151	2.00	Numbers	8248.11	16496.22	AT Par	16496.22	
	<b>Description:-</b> Supply and testing of Digital clock with GPS Synchronization for office area as per RDSO Spec No. RDSO/SPN/TC/ 62 /2008 Rev3.0 or latest. INSPECTED BY CONSIGNEE							
171	152	20.00	Numbers	7430.13	148602.60	AT Par	148602.60	
	<b>Description:-</b> Supply of Walkie talkies set 5W (turned for rated power of5Watts)Synthesized with 2200 MAH Ni-MH Battery pack, Configuration VH-3Band 136-174 MHz full band along with one spare Battery pack of capacity 2200MAH capacity and rapid charger as per specification enclosed. The VHF walkie-talkie shall comply MIL standard. INSPECTION BY RDSO							
172	Please see Item Breakup for details.				926730.00	AT Par	926730.00	
	<b>Description:-</b> Supply and provision of MS cable tray of thickness 1.5mm, including top cover for closing for installation. Installation to be carried out as per the instruction of Engineer at site. MS cable tray including cover should be powder coated with siemens gray colour. INSPECTED BY CONSIGNEE							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> ( ) D-Execution for Sch-B & Sch-C							15758115.48	
173	1	2.00	Numbers	20919.58	41839.16	AT Par	41839.16	
	<b>Description:-</b> Installation, wiring, testing and commissioning of Data logger complete along with accessories with contractors own wiring & fixing material as per following configuration. (It includes loading of NETWORKING software and networking of data logger. The requisite communication cable/channel for networking will be arranged by Railway.							
174	2	1.00	Lot	9327.00	9327.00	AT Par	9327.00	
	<b>Description:-</b> Installation, wiring & Testing of Control cum Indication Panel, KLR boxes, Group phone, ELD, Fuse Indication system & test board etc. This includes laying & termination of cable, if any from Panel Room To Relay Room in GI/HDPE pipe.							
	3	3.00	Set	35071.54	105214.62	AT Par	105214.62	

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

175	<b>Description:-</b> Installation, Wiring and testing from Integrated Power Supply System including Connection to change-over unit. This includes transportation, loading and unloading of IPS system complete and batteries from depot to the site of installation. The all supplies shall be wired right from IPS to power supply distribution board / rack with contractor's own wiring materials except 25sq mm wire (which is included in supply of IPS). The wiring shall be done with single core multistrand flexible copper wire of 10 Sq mm, 16 Sq mm, 25 sq mm etc. as per IS:694 of 1990 or latest as per RDSO recommendation of IPS installation. This also includes installation of CT rack in IPS Room, fixing of ARA/Wago terminals. with connections suitable for 32 A. The 25 sq mm wire shall be used for connecting Batteries from IPS, 16 sq. mm power cable is to be used for wiring of 110V DC, 110V AC & 60V DC (internal) and for balance power supply 10 sq, mm power cable is to be used. All connectors, wiring material, ladders, DWC pipes etc as per site requirement are to be arranged by contractor as per instructions of railway engineer at site. This also includes fixing and wiring of one exhaust fan in the IPS room. Fan will be supplied by the railway.						
176	4	5000.00	Numbers	14.51	72550.00	AT Par	72550.00
	<b>Description:-</b> Termination of cable cores on ARA terminal/8-way/ Wago/ Phoenix terminals in the cable termination rack. This includes all associated works of pulling out the cable from under ground, peeling off insulation, dressing of cable core supported on sting rod with contractor's own material. The work shall be done as per instructions of Rly engineer at site.						
177	5	2.00	Station	4821.01	9642.02	AT Par	9642.02
	<b>Description:-</b> "Lettering & Numbering of detail and description writing of particulars of terminations & equipments 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 ("Asian" make or similar enamel paints or similar paint only to be used). Also, Ferrules with Printed letters/PVC sleeve with printed details of cores shall also be provided on each cable conductor, Supply by contractor. Supply and fixing of teflon strips 3mm thick and 25 mm wide for each row of relays and cable terminations. The work shall be done as per RB's instructions issued vide letter no. 2023/Sig/17-Sig Equip Maintenance/Part dated 06.11.2023 and extant practice on W.C.Rly & instruction of Rly engineer at site. Unit-per station"						
178	6	2.00	Lot	24969.05	49938.10	AT Par	49938.10
	<b>Description:-</b> Preparation of Cable Route Plan, Cable Courage Plan, Location Particulars, Cable Meggering Report (Before laying and after laying), OTDR report, power board distribution diagram, Earth resistance particulars, Track Circuit jumper/bonding Diagram, Traction Bonding diagram, MSDAC DP Plan, SSDAC DP Plan, and any other drawing on Auto- CAD in A2/A3/A4, etc. size (as per instruction of engineer incharge). The basic rough sheets shall be prepared by Site Engineer of contractor in consultation with Railway Supervisor for preparation of above mentioned plans/reports. There after the contractor shall prepare the same in Auto- CAD in A2/A3/A4, etc. Size (as per instruction of engineer incharge). Initially contractor shall supply 2 sets of documents complete for approval of Railways. Railways will return one set to the contractor duly approved with alterations/ corrections if any. The contractor shall in corporate Railways alterations/corrections in the tracings without any deviation and submit all tracings complete in all respects along with its soft copies and 4sets of final completion drawings properly bound in steel clip jaw with cushion cover to railways.						
179	7	6.00	Kilometre	83581.26	501487.56	AT Par	501487.56
	<b>Description:-</b> Excavation of trench as per cable route plan, 1.2 mtr deep, 300mm wide at the bottom along main line in normal soil, This work includes covering of cable laid in trenches by loose soil for a layer of 50 mm thickness approximately before covering by shahabad stone/bricks, clearing of route, bushes etc and refilling of the trench by excavated soil and ramming after laying of the required quantity of cables as per instructions of Engineer at site. If it is not possible to reach the required depth at any location, then the contractor shall obtain prior approval of Engineer-in-charge before commencement of cable laying process and only then shall the proportionate payment be made to the contractor.						
180	8	1.00	Kilometre	12588.62	12588.62	AT Par	12588.62
	<b>Description:-</b> Excavation of trench as per cable route plan, 1 mtr deep, 300 mm wide at the bottom along main line in hard soil / murum, This work includes covering of cable laid in trenches by loose soil for a layer of 50 mm thickness approximately before covering by Shahabad stone/bricks, clearing of route, bushes etc and refilling of the trench by excavated soil and ramming after laying of the required quantity of cables as per instructions of Engineer at site. If it is not possible to reach the required depth at any location, then the contractor shall obtain prior approval of Engineer-in-charge before commencement of cable laying process and only then shall the proportionate payment be made to the contractor.						
181	9	1000.00	Metre	823.84	823840.00	AT Par	823840.00
	<b>Description:-</b> Preparation of cable duct 150mm x 300mm deep for laying of cable in rocky area and refilling the duct (after cable laying) with concrete mixture of proportion 1:3:6 and grouting the ends at either side of the rocky portion using concrete mixture with contractors own cement and other materials.						
182	10	750.00	Metre	191.04	143280.00	AT Par	143280.00

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

	<b>Description:-</b> Excavation of cable trench 1m deep and 300mm wide across the track, for track crossing and refilling after laying of DWC/RCC/GI pipes. The work shall be done as per extant practice on W.C. Rly & instruction of Rly engineer at site.						
183	11	300.00	Metre	224.41	67323.00	AT Par	67323.00
	<b>Description:-</b> Cutting of all types of platforms, trenching & excavation to depth of 300 mm x 300 mm wide approx. and refilling after lying of GI pipes and repairing the platform to restore to original condition. The work shall be done as per extant practice on W.C.Rly and as per instructions of Rly. Engineer at site.						
184	12	150.00	Metre	224.41	33661.50	AT Par	33661.50
	<b>Description:-</b> Cutting of all types of Roads preparatory to trenching & excavation to depth of 1 Mtr X 300 mm wide approximately and refilling, after laying of GI pipe and to restore the road to original condition. The work shall be done as per extant practice on W.C.Rly & instruction of Rly engineer at site.						
185	13	185.00	Kilometre	5833.46	1079190.10	AT Par	1079190.10
	<b>Description:-</b> Laying of signalling/Power/Telecom cable of various cores/sizes in trenches. The work shall be done as per extant practice followed on W.C.Railway and as per the instructions of Railway Engineer at site.						
186	14	2500.00	Metre	63.07	157675.00	AT Par	157675.00
	<b>Description:-</b> Transportation & Laying of GI/DWC/RCC pipes along with collars in trenches at places wherever required as per the instruction of the engineer at site.						
187	15	20.00	cum	3628.70	72574.00	AT Par	72574.00
	<b>Description:-</b> Cement ,concrete work in the ratio of 1:3:6 with contractor's own material as per instruction of site engineer						
188	16	30000.00	Numbers	10.71	321300.00	AT Par	321300.00
	<b>Description:-</b> Fixing of ARA /WAGO Terminals and fuse blocks with provision of holes on hylem sheets and fixing by galvanised nuts & bolts.This includes provision of two additional holes on the hylam board on either side for cable conductor entry. The work shall be done as per Engg. at site.						
189	17	40000.00	Numbers	14.51	580400.00	AT Par	580400.00
	<b>Description:-</b> Termination of cable cores on ARA/ disconnecting type terminal, fuse blocks, 8 way terminals block in the apparatus cases. This includes all associated works of pulling out the cable from underground, dressing of cable, making wiring tree etc. This includes soldering of armour tree/ring of cables and connecting to copper plate through GI wire bus bar in location boxes. The work shall be done as per location plans and instructions of Rly engineer at site.						
190	18	85.00	Numbers	10673.01	907205.85	AT Par	907205.85
	<b>Description:-</b> Excavation, casting and plastering (above ground level) of Apparatus case foundation with contractors own Metal Sheet frame, cement, anchor bolts and other materials. Single case as per Drg No JBP/S&T/C/084						
191	19	40.00	Numbers	10286.96	411478.40	AT Par	411478.40
	<b>Description:-</b> Excavation, casting and plastering (above ground level) of Apparatus case foundation with contractors own Metal Sheet frame, cement, anchor bolts and other materials. Half case as per Drg No JBP/S&T/C/085						
192	20	85.00	Numbers	1119.84	95186.40	AT Par	95186.40
	<b>Description:-</b> Erection of apparatus cases. This includes filling of location foundation with river bed sand and plastering on top of the sand. Single case						
193	21	40.00	Numbers	856.34	34253.60	AT Par	34253.60
	<b>Description:-</b> Erection of apparatus cases. This includes filling of location foundation with river bed sand and plastering on top of the sand. Half Case.						
194	22	85.00	Numbers	1748.21	148597.85	AT Par	148597.85
	<b>Description:-</b> Fabrication and fixing of phenolic board 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. Lasing & dressing of cables/wires terminated with contractors own supply of lasing thread. The work shall be done as per instructions of Rly engineer at site. Single case						
195	23	40.00	Numbers	1575.47	63018.80	AT Par	63018.80
	<b>Description:-</b> Fabrication and fixing of phenolic board 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. Lasing and dressing of cables/wires terminated with contractors own supply of lasing thread. The work shall be done as per instructions of Rly engineer at site. Half Case.						
	24	85.00	Numbers	1880.29	159824.65	AT Par	159824.65

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

196	<b>Description:-</b> Installation of Eqpt. (Relays, resistance, chargers & batteries etc.) & wiring of the same in apparatus cases as per location & circuit diagrams with contractor's own PVC wires and wiring material. The work shall be done as per instruction of Rly engineer at site and approval of wiring material ( from RDSO approved firms) being used and extant practice in W.C. Rly). Wiring of relays should be with 16/0.2mm wire and all other equipments wiring by 2.5 sq mm multi strand wire of IS 394 of 1990 or latest. Single case						
197	25	40.00	Numbers	1308.27	52330.80	AT Par	52330.80
	<b>Description:-</b> Installation of Eqpt. (Relays, resistance, chargers & batteries etc.) & wiring of the same in apparatus cases as per location & circuit diagrams with contractor's own PVC wires and wiring material. The work shall be done as per instruction of Rly engineer at site and approval of wiring material ( from RDSO approved firms) being used and extant practice in W.C. Rly). Wiring of relays should be with 16/0.2mm wire and all other equipments wiring by 2.5 sq mm multi strand wire of IS 394 of 1990 or latest. Half case						
198	26	30.00	Numbers	10317.48	309524.40	AT Par	309524.40
	<b>Description:-</b> Excavation, casting and plastering (above ground level) of main signal foundation as per Drg. No. WCR/S&T/SIG/01 and IRSEM DRG. NO. 19-D3 (For Signal foundation between two tracks) with contractor's own materials including cement and galvanised anchor bolts of standard size. The hole for cable entry should be kept as per site requirement and instruction of Rly engineer at site. The required scaffolding Ferma etc. for casting of foundation will have to be brought by the contractor at his own cost.						
199	27	30.00	Numbers	3561.75	106852.50	AT Par	106852.50
	<b>Description:-</b> Erection of CLS Post with Surface base and signal unit on top or on OFF set Bracket, fixing of front and back staging, ladder and guards, signal name plates and A/AG/C/P/G marker board , protective screen, blanking of ladder (0.6 mm MS sheet) if any with contractors 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. Wooden white cross- arms (1000 x 100 mm) to be provided by the contractor till the signals are commissioned with contractor's own material.						
200	28	20.00	Numbers	3061.99	61239.80	AT Par	61239.80
	<b>Description:-</b> Excavation and Casting of shunt signal foundation as per Drg.No. SK 749 based on drawing no .RST-11173 with contractor's own materials including cement and anchor bolts of standard size. The hole for cable entry should be kept as per site requirement & instruction of railway engineer at site. The required scaffolding, Ferma, etc for Casting of foundation will have to be brought by the contractor at his own cast						
201	29	20.00	Numbers	493.28	9865.60	AT Par	9865.60
	<b>Description:-</b> Erection of shunt signal with Surface Base, Post, Signal unit and fixing of No. plates. The work shall be done as per instructions of Rly engineer at site. Wooden white cross-arms (1000x100 mm) to be provided by the contractor till the signals are commissioned with contractor's own material.						
202	30	20.00	Numbers	403.27	8065.40	AT Par	8065.40
	<b>Description:-</b> Termination of tail cable on Shunt signal units and wiring with contractor own material, fixing of LED signal unit etc. Flexible Single core copper wire 2.5 sq.mm (50/0.25) conforming to IS-694:2010 copper wire as per Rly. Standard and lugs etc. will be supplied by the contractor. This includes insertion of tail cables from ground to signal unit. The work shall be done as per instruction of Rly engineer at site.						
203	31	14.00	Numbers	850.55	11907.70	AT Par	11907.70
	<b>Description:-</b> Fixing of Jn. Route Indication1-Way/2-Way/3-Way/ 4 Way/5 Way on the top of the signal post.						
204	32	30.00	Numbers	1234.74	37042.20	AT Par	37042.20
	<b>Description:-</b> Termination of tail cable on main & auxiliary signal units and wiring with contractor own material, fixing of LED signal units etc. Flexible Single core copper wire 2.5 sq.mm (50/0.25) conforming to IS-694:2010 (as per aspect colour) and lugs etc. will be supplied by the contractor. This includes insertion of tail cables from ground to signal unit. The work shall be done as per instruction of Rly engineer at site.						
205	33	15.00	Numbers	6146.30	92194.50	AT Par	92194.50
	<b>Description:-</b> Provision of screen on signal when they fall within 2 meter from the live conductor by expanding metal size20mm x 60 mm (stand 3.25mm wide and 1.6mm thick) as per instructions of Rly engineer at site. This includes supply of all materials related to mesh loop/protection screen to be supplied by contractor and connected rope wire from signal top to earth electrode with nuts & bolts & earth electrode supplied by railway.						
	34	160.00	Numbers	2190.52	350483.20	AT Par	350483.20

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

206	<b>Description:-</b> Installation & fixing of earth electrode assembly as per drg. No. CR/SK-753 including earth wire connected through GI wire 8 SWG supported on M.S. flat of size 6 mm x 40 mm to earth electrode for signaling Equipment such as lever frames, apparatus cases, signals, relay racks, block instruments etc. as per RE manual. The earth value should be less than 10 ohms including the lead wire. It should be documented and painted on earth enclosure made of concrete (only earth electrodes will be supplied by Rly.) Contractor will bring Earth enclosure and all other material required for provision OF Installation.						
207	35	15.00	Numbers	9377.21	140658.15	AT Par	140658.15
	<b>Description:-</b> Installation of maintenance free earth as per item -94 C supplied against this work with contractors own materials required for the same. This includes I) Digging/Auguring/Boring of single earth pit of 100mm to 125mm dia to the depth of approximate 2.8M II) Insertion of 3 Mtr electrode and penetrating it at least 0.2 Mtr. By pushing gently with sledge hammer where the neutral soil is assumed. III) Filling of earth pit with earth enhancement compound (EEC) inslurry form and back filling. IV) Carrying out exothermic weld connection of single earth electrode to a copper tape of 150 x 25 x 6 mm. V) Filling of earth pit with earth enhancement compound (EEC) in slurry form and back filling. VI) Carrying out exothermal weld connection on the copper tape of 150x 25 x 6 mm on earth electrode for connecting two 35 Sq.mm cable for redundancy VII) The exothermic welding material for bonding the earth system shall be procured from RDSO approved firms which include graphite moulds, clamps, weld metal powder. VIII) 300 mm X 300 mm X300 mm (inside dimension) concrete earth pit with a concrete lid approximately 50 mm thick with pulling hooks shall be provided to cover the pit. Back side of the cover will be painted in black and date of testing and average earth resistance value shall be written.						
208	36	250.00	Per Unit	82.18	20545.00	AT Par	20545.00
	<b>Description:-</b> Charging of Low Maintenance Lead Acid Batteries with contractors own battery grade sulphuric acid and distilled water with minimum two charge - discharge cycles, installation of charged batteries in groups & their connection & wiring. The work shall be done as per extant practice on W.C. Rly & the instruction of site engineer. The sulphuric acid & distilled water to be used for charging shall conform to specification IS 266- 1961 & IS 1070-1960 respectively. Per Unit = Per 200AH/80 AH						
209	37	350.00	Numbers	1163.24	407134.00	AT Par	407134.00
	<b>Description:-</b> Erection, Fitting and Rail connection of Track Lead Junction Box with contractor's fixing material and jacketed wire rope including 7mm single groove galvanized channel pin for track lead connection including angle of size 40 x 40 x 5 mm 1200 mm length. This will include drilling of holes in rails for track lead connections as per instructions of Rly engineer at site. PVC jacketed galvanized steel wire ropes of 6mm dia (7 x 19 strands) sheathed with PVC of 2mm wall thickness and over all thickness of 10mm for connection between the TLJB and the rails are to be used and to be supplied by the contractor. PVC sheath should be made of type 6 compound as per IS 5831 of 1984. Double wire ropes are to be connected between each rail and TLJB.						
210	38	2800.00	Numbers	133.44	373632.00	AT Par	373632.00
	<b>Description:-</b> Provision of bonding with contractor's materials including 7mm single groove galvanized channel pin. This will include drilling of 7.2 mm dia holes in rails (4 Nos) and provision of two jumpers for each bond, clipping of bonds etc. with contractors own materials and tools as per instruction of Rly engineer at site GI wires of 4mm dia (8 SWG) are to be used for jumpers across fish plates which should be supplied by the contractor free of cost.						
211	39	15.00	Numbers	4809.97	72149.55	AT Par	72149.55
	<b>Description:-</b> Fixing of point machine on newly laid turnout on Wooden/MBC/Steel sleepers & fixing of ground connections. Adjustment and testing with crank handle operations. This will include fixing of bend pipes with welded frame for cable entry to machine. This will also includes necessary adjustment and smithy work, drilling of Holes to tongue rails, gauge plate & steel sleeper, fitting of insulation for tongue attachment, gauge plate & William stretcher. This also includes cable entry to the point machine and termination of tail cable in point machine on ARA terminals and wiring of point machine (Necessary wiring modification for independent detection) using 2.5 sq mm insulated copper wire as per IS 696 of 1990 with suitable lugs. ARA terminals are to be suitably fixed on channels inside point machine .Supply & filling of SAE 30 lubricating oil (500ml approx). The work shall be done as per extant practice on W.C. Rly & the instruction of Rly engineer at site. Per Unit = Per Turnout						
212	40	15.00	Set	17311.02	259665.30	AT Par	259665.30

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

212	<b>Description:-</b> Fixing of Electrical high thrust (220mm) point machine on the extended sleepers at thick web point as per section of rails used. Item included fixing of switch extension bracket, fixing ground connection, adjusting opening of the switches and adjusting of the point machine with crank handle .The item also includes (i) Complete material for installation of point machines and fixing of ground connection/switches extension bracket like point insulator materials, S pipe, wiring materials Various fixing nuts & bolts including casting nuts, spring washers, etc. (ii) All smithy & fitting works required at site for complete installation. (iii) Installation of gauge tie plate & providing insulation for gauge tie plate. (iv)Wiring inside the point machine, insertion and termination of tail cable in point machine and junction box /cable hut as per extent practice of WCR and the instruction of railway Engineer at site. (v) Supply and fixing of suitable Size GI pipes with flange for taking cable in to point machine. Electricals point machine, ground connection and M6 Screw less terminals will be supplied by Railways, covered in Schedule separately. This also includes removal of existing point machine, ground connection, (If required)						
213	41	70.00	Numbers	4697.53	328827.10	AT Par	328827.10
	<b>Description:-</b> Fixing/ Refixing of electrical point machine on existing layout, ground connection during phase working(NI/ Pre-NI) after removing the electrical point detector, FPL assembly and mechanical or any other fittings including existing Point Machine fitting if any, adjustment if necessary, wiring of point machine testing and commissioning of electrically operated point, fixing and connecting point indicator on derail switch if necessary. This will include fabrication and fixing of Glbend pipes for cable entry to the point machine and termination of tail cable in point machine and wiring servicing of point machine & supply and filling of SAE-30 lubrication oil . This also includes installation of William stretcher nylon insulation set(complete), Tongue attachment nylon insulation set and Gauge Tie plate nylon insulation set as per RDSO specification. The work shall be done as per extant practice on W.C. Railway and the instructions of Railway Engineer at site. Internal wiring of Point machine & cable termination suitable for EI/PI/RRI installation, 2.5 sq.mm(50/0.25) conforming to IS:694:1990 flexible copper wire of different colours & lug will be supplied by contractor. Point Machine, ground connection, insulation sets will be supplied by Railways. This includes drilling of holes in tongue rail, provision of high di-electric varnish on contact assembly and wiring during NI period. This also include rewiring of point machine if required as per type of point machine & circuit(independent detection) & as per instruction of site engineer. To reduce the no. of days of NI, the existing point machines may be replaced with new point machines and operated from existing panel. During pre-NI / NI, rewiring at MCTB/location box/point machine shall be carried out as per the requirement without any additional cost." This item unit will be "per point						
214	42	85.00	Numbers	500.77	42565.45	AT Par	42565.45
	<b>Description:-</b> Painting two coats of enamel paint over one coat of Red Oxide primer on the following items after scrapping and cleaning of the surface wherever necessary. Primer and Paints both Asian paints / Berger / Shalimar are to be supplied by Contractor. The work shall be done as per instructions of Rly engineer at site and extant practice on W.C Rly on location boxes, signal posts, TLJB. This includes lettering/Numbering of signals, point machine, TLJB, Block joints, apparatus cases also Termination particulars, equipment names etc. legibly and neatly inside location boxes etc. Apparatus case full size						
215	43	40.00	Numbers	374.62	14984.80	AT Par	14984.80
	<b>Description:-</b> Painting two coats of enamel paint over one coat of Red Oxide primer on the following items after scrapping and cleaning of the surface wherever necessary. Primer and Paints both Asian paints / Berger / Shalimar are to be supplied by Contractor. The work shall be done as per instructions of Rly engineer at site and extant practice on W.C Rly on location boxes, signal posts, TLJB. This includes lettering/Numbering of signals, point machine, TLJB, Block joints, apparatus cases also Termination particulars, equipment names etc. legibly and neatly inside location boxes etc. Apparatus case Half size						
216	44	30.00	Numbers	848.65	25459.50	AT Par	25459.50
	<b>Description:-</b> Painting two coats of enamel paint over one coat of Red Oxide primer on the following items after scrapping and cleaning of the surface wherever necessary. Primer and Paints both Asian paints / Berger / Shalimar are to be supplied by Contractor. The work shall be done as per instructions of Rly engineer at site and extant practice on W.C Rly on location boxes, signal posts, TLJB. This includes lettering/Numbering of signals, point machine, TLJB, Block joints, apparatus cases also Termination particulars, equipment names etc. legibly and neatly inside location boxes etc. Main Signal post with signal unit, surface base and complete fittings as per W.C.Rly. Standard practice.						
217	45	20.00	Numbers	202.60	4052.00	AT Par	4052.00
	<b>Description:-</b> Painting two coats of enamel paint over one coat of Red Oxide primer on the following items after scrapping and cleaning of the surface wherever necessary. Primer and Paints both Asian paints / Berger / Shalimar are to be supplied by Contractor. The work shall be done as per instructions of Rly engineer at site and extant practice on W.C Rly on location boxes, signal posts, TLJB. This includes lettering/Numbering of signals, point machine, TLJB, Block joints, apparatus cases also Termination particulars, equipment names etc. legibly and neatly inside location boxes etc. Shunt Signal post with signal unit, surface base as per W.C. Rly. Standard practice.						
	46	75.00	Numbers	175.83	13187.25	AT Par	13187.25

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

218	<b>Description:-</b> Painting two coats of enamel paint over one coat of Red Oxide primer on the following items after scrapping and cleaning of the surface wherever necessary. Primer and Paints both Asian paints / Berger /Shalimar are to be supplied by Contractor. The work shall be done as per instructions of Rly engineer at site and extant practice on W.C Rly on location boxes, signal posts, TLJB. This includes lettering/Numbering of signals, point machine, TLJB, Block joints, apparatus cases also Termination particulars, equipment names etc. legibly and neatly inside location boxes etc. Point machine with ground connection complete. ( Point machine with black enamel only out side and ground connection with red oxide)						
219	47	30.00	Numbers	67.49	2024.70	AT Par	2024.70
	<b>Description:-</b> Lettering numbering of signals, point machine, track lead junction boxes, block joint, appratas cases etc ( each item to be taken as one unit )						
220	48	85.00	Numbers	303.90	25831.50	AT Par	25831.50
	<b>Description:-</b> "Lettering numbering termination particulars, equipments names etc legibly and neatly inside location boxes. Also, Ferrules with Printed letters/PVC sleeve with printed details of cores shall also be provided on each cable conductor. The work shall be done as per RB's instructions issued vide letter no. 2023/Sig/17-Sig Equip Maintenance/Part dated 06.11.2023 and extant practice on W.C.Rly & instruction of Rly engineer at site. Single case"						
221	49	40.00	Numbers	172.03	6881.20	AT Par	6881.20
	<b>Description:-</b> "Lettering numbering termination particulars, equipments names etc legibly and neatly inside location boxes. Also, Ferrules with Printed letters/PVC sleeve with printed details of cores shall also be provided on each cable conductor. The work shall be done as per RB's instructions issued vide letter no. 2023/Sig/17-Sig Equip Maintenance/Part dated 06.11.2023 and extant practice on W.C.Rly & instruction of Rly engineer at site. Half case"						
222	50	8.00	Numbers	7829.87	62638.96	AT Par	62638.96
	<b>Description:-</b> "Patching work in old location consisting (i) Digging of pit, cleaning of earth from all sides, breaking of seal of location boxes, removal of sand , from location, marking of new cable hole. (ii) Insertion of cable from ground.(iii) making place from cable termination in old location, shifting of ARA, fuse etc. after removal of termination, including shifting of ARA.(iv) Termination of cable in old location.(v) Sand filling and plastering "						
223	51	3500.00	Metre	1055.61	3694635.00	AT Par	3694635.00
	<b>Description:-</b> All work pertaining to Horizontal Dirctional Drilling (HDD)/Boring and trenchless cabling in hard/rocky soil by machine. It includes supply. transportation and insertion of self lubricated HDPE Pipe and laying of cables in boring under the track road plateform circulating area by using self lubricated HDPE Pipe of 120mm outer dia and 103.5mm inner dia in the bore. The depth of horizontal boring should he minimum 2 mtr upto 3 mtr, from rail flange road level ground level as per site requirement and as per instructions of Railway Engineer incharge. Thickness 3.5 to 4.1 mm as per specification no. IS 4984:1995 with latest amendment, Material Grade PE 63						
224	52	4.00	Numbers	17163.81	68655.24	AT Par	68655.24
	<b>Description:-</b> Installation/modification of Central Evaluator of Axle Counter, wiring from the CT rack to the Central Evaluator, installation and wiring the reset box and wiring the power supply to the Central Evaluator including the supply of shielded cable of required conductor size as applicable with other accessories. Earthing asper manufacturers specification with their own material.						
225	53	80.00	Numbers	1136.51	90920.80	AT Par	90920.80
	<b>Description:-</b> Dismantling and releasing of Colour light signal shunt signal & Point ,DP Which includes dismantling of signal fittings complete. All dismantled materials to be transported and stacked in the store of respective section as nominated by Engineer-In Charge.						
226	54	100.00	Numbers	917.44	91744.00	AT Par	91744.00
	<b>Description:-</b> Dismantling and releasing of Location Box. Which includes dismantling of location box fitting complete. All dismantled materials to be transported and stacked in the store of respective section as nominated by Engineer-In Charge.						
227	55	2.00	Lot	17280.52	34561.04	AT Par	34561.04
	<b>Description:-</b> Releasing of all equipments of Relay room/ Axle Counter room/IPS room/ Battery room / ASM's room/ ESM's duty room / Data Logger room, Cabin basement and Lever Frames, covering the entire indoor signaling gears as per the instruction of Railway Engineer at site & their transportation to Nominated depot by Engineer In Charge with MS/ Cl/wooden materials duly segregated. The above list is only indicative, the contractor has to release all old equipments as per pre commissioning survey and instruction of Railway Site Engineer.						
228	56	4.00	Numbers	6640.58	26562.32	AT Par	26562.32
	<b>Description:-</b> Shifting of Existing apparatus case with foundation by crane or by other means upto 2-20 Mtr decided as per site engineer. (During shifting of location boxes signalling gears disconnection by railway representative). This includes all type of labors charges and filling of locations foundation with river bed sand and plastering on top of the sand.						
229	57	10.00	Sheet	367.00	3670.00	AT Par	3670.00
	<b>Description:-</b> "Alteration of Existing Location Box Drawings (Including Contact Analysis, Fuse Particulars etc) and submission of Three paper copies for approval.(PER SHEET=PER LOCATION)"						

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

230	58	1.00	Pair	85154.70	85154.70	AT Par	85154.70	
	<b>Description:-</b> Installation, wiring, testing & commissioning of Dual Redundant Arrangement of UFSBI Electronics for exchange of vital relay state information between two different Signalling installations pertaining to ABS / IB signalling application working on OFC/Quad media in set and consisting of installation of following sub systems: a) Electronics for UFSBI interface in redundancy as per IRS spec. No. IRS:S-104/2012 ver. 0 (latest amendment).Qty: 2 No.; b) Modem for UFSBI (for use of secondary media OFC / Quad). Qty: 2 No.; c) Automatic Media changeover of modem working on redundant channels for data transmission on OFC/ Quad. Qty: 2 No.; d) Pre wired 42-U floor mounting MS Cabinet suited to fit 2 sets of UFSBI Electronics with Siemens grey/ Smoke grey powder coating (Rust proof and long life),tinted 3-4 mm thick tinted Acrylic/ Polycarbonate/ Glass sheet fitted on front door and metal back door, with double lock.							
231	59	5.00	Numbers	5369.20	26846.00	AT Par	26846.00	
	<b>Description:-</b> Splicing of 24 fiber optic fiber cable and making the splice joint with contractor's own splicing machine and tools. Joint should be prepared in such a way that the top of the enclosure shall be at a depth of 1.2 Mtr. and the enclosure should be covered with soft soil than bricks. Acceptance Test procedure of WCR has to be followed for testing. Continuity of the OFC Armour should be maintained.							
232	60	10.00	Numbers	1232.99	12329.90	AT Par	12329.90	
	<b>Description:-</b> Installation of Thermo- shrinkable joining kits for making (a) straight through joints without transformers for 6 quad Jelly filled cable (b) derivation joint without transformer for 6 quad jelly filled cable, and (c) Straight Through joint without transformer for 10Pr/20Pr.PIJF cables after jointing the cable through test such as insulation test, Continuity cable losses etc. to be carried out jointly with the Railway Engineer. If any defect or any damage observed during jointing, the contractor should be redo the joint free of cost.							
233	61	7.00	Kilometre	6334.16	44339.12	AT Par	44339.12	
	<b>Description:-</b> 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 ends of the duct should be sealed with end plugs before laying and should remain sealed till blowing is done.							
234	62	7.00	Kilometre	15402.31	107816.17	AT Par	107816.17	
	<b>Description:-</b> Blowing and drawing of OFC through already buried HDPE duct, taking due care while transporting and sealing both the ends after blowing. The cable should be blown according to the technical instructions of the manufacturer and the instructions of the site in-charge.							
235	63	250.00	Metre	62.94	15735.00	AT Par	15735.00	
	<b>Description:-</b> Fixing of GI pipes for crossing the culverts, stone bridges etc. and concreting the ends with brick masonry at both ends as per the instructions of Rly. Engineer at site with Contractor's materials. The brick masonry at the ends shall be done with well-burnt bricks & cement mixture of 1:3 ratios. (Supply of GI pipes is not covered in this item). 3 perforation of 0.6mm Dia per meter shall be made on the GI pipe as per the instructions of Engineer at site. This includes fixing with contractors own MS Chancel, clamps of proper size etc as per instructions of engineer at site.							
236	64	8.00	Per Detection Point (DP)	12535.73	100285.84	AT Par	100285.84	
	<b>Description:-</b> Installation, wiring, testing and commissioning of track device of SSDAC/MSDAC/HADAC with all system including digging of trench, track crossing, laying of Double walled antirodent corrugated pipe or other pipe required for completed installation of system from track device to location box and making its terminations. Fixing of deflector plates.(Double walled antirodent corrugated pipe made up of High Density Polyethylene of required dia and all other accessories as per site requirement to be supplied by the firm) & Installation of EJB / Trackside Electronics inside the location (if required), reset box for system, etc. including supply of wires and other accessories. Pre-commissioning checklist to be submitted prior to the commissioning as per RDSO specification. Rate- Per DP							
237	65	2.00	Numbers	6128.71	12257.42	AT Par	12257.42	
	<b>Description:-</b> Installation, wiring, testing & commissioning of Double Line block instrument.							
238	66	1.00	Numbers	9459.68	9459.68	AT Par	9459.68	
	<b>Description:-</b> Installation, wiring & programming of MAPLE 4C for connectivity of UFSBI, BPAC,SPT, Datalogger etc. on OFC terminated. Per Unit= Per Location							
239	67	50.00	cum	820.35	41017.50	AT Par	41017.50	
	<b>Description:-</b> Dismantling of Concrete Foundation SINGLE CASE,HALF CASE LOCATION BOXES, SIGNAL, SHUNT SIGNAL, DP ,LEVER FRAME etc.							
240	68	1.00	Lot	800000.00	800000.00	AT Par	800000.00	

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

				<b>Description:-</b> Installation of EI at MDTC NSZ BHOPAL .This includes logic & circuit of exiting 4 line station of BPL division .EI set up to be installed at MDTC for training purpose. Released EI system and other interfacing relays etc.attached as annexure from KTE which is kept at SSE/ Sig/Construction/BPL depot has to be used for installation at MDTC/NSZ. Other sundry items for installations including wiring materials, ladders, male /female connectors, fuses and other items for complete installation have to be supplied by the contractor.			
241	69	1.00	Lot	750000.00	750000.00	AT Par	750000.00
	<b>Description:-</b> "Supply of Wiring and consumables as per item no 240 Annexure-N attached."						
242	70	1.00	Numbers	9384.03	9384.03	AT Par	9384.03
	<b>Description:-</b> TELECOM -EXECUTION PORTION Installation and Commissioning of 2 MB programmable Drop/Insert MUX inside the standard close drack fully equipped for all types of interface cards and wired for all interface cards inputs/ outputs used/ unused upto the CT Krone Tag block 100pair as per site requirements. This included supply and installation of CT Krone Tag Block 100 pair with all its accessories along with all material required for fixing including hylam/teak board of sufficient size with min 1" thickness and the hardware required for fixing .Krone Tag Block(covered separately)will be fixed outside on wall. Required wiring upto the U-link panel for E1 interfacing is also included. The item also includes supply of all wires/cables as required for interfacing to CT Krone Tag block and U-link panel.						
243	71	1.00	Numbers	17806.41	17806.41	AT Par	17806.41
	<b>Description:-</b> Installation of IP MPLS Router and switches, with power distribution panel and all accessories in the Rack (19") , DDF, Aluminum runway ladder, patch cord etc and their testing and commissioning. This includes termination of all E1's on DDF, connection of pigtails, optical patch cords and 48 V bus to the IPMPLS equipment including supply of wires and connectors. It also includes proper mounting of rack, provision of Aluminum runway ladder, casing and capping and conduit pipe as per requirement at each station, other materials from stores supplied by Railways for installation. (Conduit pipe/ casing and capping, aluminum runway ladder and all other miscellaneous materials should be supplied by the contractor).						
244	72	1.00	Numbers	8219.05	8219.05	AT Par	8219.05
	<b>Description:-</b> "Installation of cable termination panel rack, mounting of isolation transformers, termination of under ground jelly filled cables on the Wago type terminals, supply of wiring material and wiring of circuitry as per instructions of engineer at site."						
245	73	1.00	Station	1467.52	1467.52	AT Par	1467.52
	<b>Description:-</b> Writing work of cable termination details of 6-quad, OFC, PIJF cables & equipments details at OFC Room/Cable hut & Station Building and wherever necessary as per direction of Engineer in- charge. Station = Per Station						
246	74	1.00	Numbers	4739.89	4739.89	AT Par	4739.89
	<b>Description:-</b> "Complete wiring, testing, integration and commissioning of public address system as per scope of work. This shall include the supply of all connecting cables. Station = Per Station"						
247	75	10.00	Numbers	7316.90	73169.00	AT Par	73169.00
	<b>Description:-</b> Opening of existing cable joints for fault identification and making a new one. This work includes digging of pit of required size at different locations as required at site, refilling the same after completion of work and all related works.						
248	76	1.00	Numbers	5801.25	5801.25	AT Par	5801.25
	<b>Description:-</b> Installation, Wiring ,Testing of all types of Battery Set & Battery Charger, conforming to tender documents						
249	77	192.00	CORE	27.43	5266.56	AT Par	5266.56
	<b>Description:-</b> Splicing/Dropping/Termination of each Fiber/Pigtail in the LIU/FDMS/ Termination joints through fusion Splicing of the termination of OFC Cables.						
250	78	500.00	Metre	30.04	15020.00	AT Par	15020.00
	<b>Description:-</b> Laying of STP/OFC/Power Cable/Switch board(10 pair/ 20pair/50 pair) Cables in 1" PVC conduit/case capping and clamping on the wall/Wall/Roof tops/ Shelters with suitable clamping and hose to be provided where ever bends/curves (PVC conduit/ Case capping and other accessories to be supplied by the contractor)						
251	79	30.00	Metre	5183.54	155506.20	AT Par	155506.20
	<b>Description:-</b> Transportation,installation, testing and commissioning of self support mast/CompleteTriangular 11" or higher Lattice (Guyies) Mast. The sections should be painted orange/red and white alternatively with good quality paint.						
252	80	8.00	cum	5702.69	45621.52	AT Par	45621.52
	<b>Description:-</b> Excavation of concrete foundation. All the material required are to be supplied by the contractor. This includes 1) Cement concrete foundation of size appro 3ftx3ftx3ft shall be prepared for Lattice(guyies) mast. The exactsize shall be decided as per soil conditions. 2) Cement concrete foundation of size approx 6ftx6ftx6ft shall be prepared for self supported mast. The exact size shall be decided as per soil conditions.3) The ratio of casting of cement concrete foundation shall be 1:3:6 all the work will be executed as per specification and advised by site engineer.						

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

253	81	1.00	Numbers	6338.41	6338.41	AT Par	6338.41	
	<b>Description:-</b> Installation of Lightning Protection System consist of: 1.) Class D 48V SPD -1 Nos. 2.) Copper Lightning Arrestor - 1Nos. 3.) LPU - 1 Nos. 4.)Aviation Lamp - 1 Nos. 5.)RF Surge Arrestor - 1Nos							
254	82	1.00	Set	632655.80	632655.80	AT Par	632655.80	
	<b>Description:-</b> Chassis bundle including aggregator router with dual main control card redundancy design supporting 1:1 hot back up providing console and SNMP interface, FAN module and Redundant 48V DC power supply modules including all connecting cables and fixing accessories etc.							
255	83	1.00	Numbers	19991.32	19991.32	AT Par	19991.32	
	<b>Description:-</b> "Installation and wiring of SDH STM4/ADMs primary drop insert multiplexers with all accessories, 19"" rack with suitable stand/ platform made of MS angle/CC, power supply board FDF racks (Already installed), DDF with miniature 'U' link type for 63E1s,run way ladder, etc. This includes connecting all pigtails, optical patch cords, etc. to the SDH equipment.This also includes connecting the SDH and primary MUX equipment with all interface cards to the 48V Bus including supply of wires and connectors, termination of all E1 on DDF, taking PVC cable over run way or a wall, and termination of VF interface circuits to the krone type."							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule () E-Supply &amp; Execution Items (S&amp;T)</b>							17555765.60	
256	1	2.00	Numbers	101060.88	202121.76	AT Par	202121.76	
	<b>Description:-</b> "Supply Installation, testing & commissioning of Class-A Protection type Surge Protection system As per STS/E/TAN/3006 Ver 3.1 dated 25.06.2025 or latest, RDSO specification no. RDSO/SPN/197 ver. 1.0 or latest, National Building Code 2016 GUIDELINES. INSPECTED BY TPI.							
257	2	2.00	Numbers	104335.49	208670.98	AT Par	208670.98	
	<b>Description:-</b> FIRE ALARM- ITEMS "Supply, installation, testing and commissioning of UL/FM/VDS/LPCB approved Microprocessor based networkable analogue addressable and modular type of Fire alarm control panel with display, in built charging facilities and provision of GSM module suitable to send SMS to configured mobile no. as given by Railways. The panel should be equipped with nos. of loop sand provision of expandability as per RDSO specification no RDSO/SPN/217/2025 Version No.: 3.1 or latest (suitable for distributed as well as centralized). The Control panel shall be the central processing unit of the system, receiving and analyzing signals from probe type bimetallic heat detectors, UV & IR flame detectors, heat and smoke multi sensors, LHS/LHSD interface and manual call points, providing audible and visual information to the user. The panel shall have provision of connectivity of TCP- IP suitable for programming and remote monitoring. The panel shall have dedicated RS 232 serial port for direct PC or MODEM connection, for interfacing with existing data logger, optional remote printer. ( As per RDSO Specification no. RDSO/SPN/217/2025 ver 3.1 or latest) INSPECTED BY RDSO"							
258	3	50.00	Numbers	2477.26	123863.00	AT Par	123863.00	
	<b>Description:-</b> "Supply, installation, testing and commissioning of analogue addressable, resettable smoke sensor with LED indication . ( As per RDSO Specification no. RDSO/SPN/217/2025Version No.: 3.1or latest) INSPECTED BY RDSO"							
259	4	50.00	Numbers	2522.60	126130.00	AT Par	126130.00	
	<b>Description:-</b> "Supply, installation, testing and commissioning of resettable, addressable multi sensor ( Heat & Smoke) which is fully compatible with analogue addressable protocol, Electronically addressed. ( As per RDSO Specification no. RDSO/SPN/217/2025 Version No.: 3.1or latest) INSPECTED BY RDSO"							
260	5	6.00	Numbers	4866.52	29199.12	AT Par	29199.12	
	<b>Description:-</b> "Supply, installation, testing and commissioning of addressable, resettable manual call point with integral short circuit isolator, having status LED for alarming & Stand by mode, Electronically addressed. ( As per RDSO Specification no RDSO/SPN/217/2025 Version No.: 3.1 or latest) INSPECTED BY RDSO"							
261	6	350.00	Metre	190.17	66559.50	AT Par	66559.50	
	<b>Description:-</b> "Supply, installation, testing and commissioning of analogue type linear heat sensing cable. ( As per RDSO Specification no. RDSO/SPN/217/2025 Version No.: 3.1 or latest) INSPECTED BY RDSO"							
262	7	2.00	Numbers	98336.86	196673.72	AT Par	196673.72	
	<b>Description:-</b> "Supply, installation and testing and commissioning of module of LHS cable to be integrated on fire alarm panel. ( As per RDSO Specification no. RDSO/SPN/217/2025 Version No.: 3.1 or latest) INSPECTED BY RDSO"							
263	8	4.00	Numbers	7929.39	31717.56	AT Par	31717.56	
	<b>Description:-</b> "Supply, installation and testing and commissioning of addressable Loop powered wall sounder/alarm. ( As per RDSO Specification no. RDSO/SPN/217/2025 ver 3.1 or latest) INSPECTED BY RDSO"							
	9	2.00	Lot	13863.68	27727.36	AT Par	27727.36	

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

264	<b>Description:-</b> "Supply, installation, testing and commissioning of FRLS/Fire survival circuit integrity cables i.e armored cable & Power cable with all accessories for connection of all fire alarm devices. ( As per RDSO Specification no. RDSO/SPN/217/2025 Version No.: 3.1r latest) INSPECTED BY RDSO"						
	10	2.00	System	237740.68	475481.36	AT Par	475481.36
265	<b>Description:-</b> "Supply, installation and testing and commissioning of Aspiration Type smoke Detection System complete. ( As per RDSO Specification no. RDSO/SPN/217/2025ver 3.1 or latest) INSPECTED BY RDSO"						
	11	1.00	Numbers	327716.00	327716.00	AT Par	327716.00
266	<b>Description:-</b> FAT SET UP "Supply, installation and commissioning of Industrial Grade Embedded PC, as per latest TAN, RCS 9422- 700T16-S512- SMX200-LMX100- PCI Vecow RCS 9422-700T16-S512-SMX200- LMX100-PCI, Embedded PC, Intel i7 processor 16GB DDR4 RAM ,512GB SSD, SMX200,LMX100, PCI, Windows O/S, HSN/SAC: 84714190 or batter. Note: This also includes Software simulation of EI hardware, Program compiler and program debugger. (Application logic of KTE station is to be provided for testing)."INSPECTED BY TPI Note:- The FAT setup shall be installed at JBP CTO/Office or any other location as decided by the Railway officials.						
	12	150.00	Numbers	1854.00	278100.00	AT Par	278100.00
267	<b>Description:-</b> Supply & installation of RFID based Electronic cable route marker for S&T/Power cable(As per Annexure-H), which can be buried at a depth range 1.5 meter. Make -Stanlay/3M or similar. This Item Includes the GPS marking of RFID. INSPECTED BY TPI						
	13	608.00	Numbers	686.05	417118.40	AT Par	417118.40
268	<b>Description:-</b> Supply & Installation, testing and commissioning of fuse alarm system of Fuse Auto changeover system (FACS) for vital fuses as per RDSO specification No. RDSO/SPN/209 /2012 Rev.2.0 or latest. Spares to be supplied as per the RDSO specification.( PER UNIT = PER FUSE). INSPECTED BY RDSO .						
	14	1.00	Numbers	140348.00	140348.00	AT Par	140348.00
269	<b>Description:-</b> FAT SET UP - Supply, installation and commissioning of , Industrial Grade VDU of SAMSUNG/LG 65UM5N 65" UHD Signage, HSN/SAC: 85285900. INSPECTED BY CONSIGNEE Note:Item Should supply with minimum warranty Period of 3 years						
	15	2.00	Numbers	28975.92	57951.84	AT Par	57951.84
270	<b>Description:-</b> Supply & installation of 32 channel NVR number of video input channels-32, No. of video output channels-32, recording resolution 4K(3840X2160), supporting compression techniques H.264, H.265, MPEG4, MPEG, H.265, H.264+, Maximum cameras views on single display 16. Make Hikvision/Bosch/Axis/Penco or equivalent. SUPPLY ITEM INSPECTION BY TPI Note:Item Should supply with minimum warranty Period of 3 years						
	16	2.00	Numbers	53564.61	107129.22	AT Par	107129.22
271	<b>Description:-</b> Supply, installation, testing, wiring & commissioning of Full HD Resolution Large Format Display LED Monitor Screen Size 55" (inches) or larger as per RDSO Specification No RDSO/SPN/TC/65/2021 Version 6.0 or latest. INSPECTED BY TPI Note:Item Should supply with minimum warranty Period of 3 years						
	17	30.00	Numbers	18176.90	545307.00	AT Par	545307.00
272	<b>Description:-</b> "Supply, Installation, Testing and Commissioning of Full HD Fixed Bullet type IP Colour Camera along with 128 GB or Higher SD Card, housing and mount and all accessories required for installation purposes per RDSO Spec No. RDSO/SPN/TC/65 /2021, Rev 6.0 or latest. Note: This also includes the steel cage to protect the camera as decided by site incharge & should be integrated with the existing CCTV system of KTE including server/NMS available for existing system." INSPECTED BY TPI Note:Item Should supply with minimum warranty Period of 3 years						
	18	2.00	Station	196304.99	392609.98	AT Par	392609.98
273	<b>Description:-</b> Supply ,provision and installation of Permetric/Ring Earth(Maintenance Free Earth)Arrangemnt as per RDSO/SPN/197/2016 Version 1.0 o rLatest(with Latest Amendement).Number of Earths covering entire area should be 12. If some increase and decrease in number of earth , proportionate payment will be made. Supply of all requites material as per latest RDSO GuideLine. Earthing shall comply all guidelines specified in RDSO Tan no. STS/E/TAN/3006 dated 08.01.2025 or latest, (this item Unit -Per station).INSPECTED BY RDSO Note:Item Should supply with minimum warranty Period of 5 years						
	19	10.00	Numbers	42972.49	429724.90	AT Par	429724.90
274	<b>Description:-</b> Supply & installation of Main Cable Termination rack complete with scaffolding, fixtures & accessories including square bars for mounting 8-way terminal blocks, ladder, string rods, frame, base assembly, isolators, J bolt, nut/bolts & fasteners ,backelite sheet etc. Siemens type & as per extant practice on C. Rly. Typical part list as per Annexure-K and rack arrangement shall be as per sketch SK 727 with latest alterations. Installation of Cable Termination Racks Assembly complete including wall supports, scaffolding, 8 way/ARA terminal/Wago terminal & other necessary accessories etc. The work shall be done as per approved plan, extant practice on W. C. Railways & the instruction of Rly. engineer at site. Supply item inspection by TPI						
	20	50000.00	Numbers	5.95	297500.00	AT Par	297500.00

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

275	<b>Description:-</b> Supply & laying of well burnt bricks of size 225x 100x 75mm inside the trench (with the brick length being perpendicular to cable route) after laying of cable in station area from Outermost to Outermost signal or at any other location as per instruction of Site Engineer. Note: - Size of bricks to be got approved by Site Engineer. In case brick size is in variance with the size given in the tender schedule then proportionate payment on volumetric basis shall be paid to contractor subject to a maximum limit of schedule rate.INSPECTED BY CONSIGNEE						
276	21	200.00	Numbers	201.01	40202.00	AT Par	40202.00
	<b>Description:-</b> Supply of Concrete Cable Marker as per drawing IRSEM Drg. no. 15-D1 or latest . Placing and securing of cable route marker in trenches at the specified interval and at diversion joint etc. along the cable route The work shall be done as per extant practice on WCR & the instruction of Rly engineer at site. INSPECTED BY CONSIGNEE						
277	22	5.00	Numbers	8835.83	44179.15	AT Par	44179.15
	<b>Description:-</b> Supply, Transportation & installation of prefab RCC OFC chamber (specification as per drawing SK/DRM/(S&T)/JBP/OFC/011) Modified & filling with river sand & termite chemical after jointing work is done. INSPECTED BY TPI						
278	23	3500.00	Running Metre	1303.56	4562460.00	AT Par	4562460.00
	<b>Description:-</b> Supply and Placing of Trunking and Capping (RCC Duct) of 500mm Width as per Drg. No. SDO/Cable laying/ 007 (Annexure-10), as detailed in document No. RDSO/SI/G/2010 Ver.1.1 or latest on 'Guidelines on signaling cable laying'(as per Annexure-M). INSPECTED BY TPI						
279	24	1.00	Numbers	136946.51	136946.51	AT Par	136946.51
	<b>Description:-</b> Supply, Installation, Testing & Commissioning of L-3 PoE 24 LAN manageable switch 10/100/1000 base with 02 SFP Port loaded As per RDSO Specification No.RDSO/SPN/TC/83/2020 Rev2.0 or latest. Make- Cisco/Juniper/HPE/Netgear or equivalent. INSPECTED BY TPI						
280	25	2.00	Numbers	27746.24	55492.48	AT Par	55492.48
	<b>Description:-</b> Supply and Installation Testing and Commissioning of Isolated DC- AC Inverter 1+1HA input 48V DC, Output:220V AC 1000VA or higher, with all required Protection Circuits. Inspection by TPI for supply portion only.						
281	26	3.00	Numbers	4624.38	13873.14	AT Par	13873.14
	<b>Description:-</b> "Supply and installation of class- B type lightning arrester for single phase supply along with class-c type surge arrester for single phase supply as per WCR railway specification No WCR/SPN/Tele/08/01. INSPECTED BY TPI						
282	27	4.00	Numbers	33516.72	134066.88	AT Par	134066.88
	<b>Description:-</b> Supply, Installation, Testing and commissioning of 108 Mbps TDM over Ethernet Access Multiplexer with provision of 4E1 channels and 1 FE over redundant optical fiber uplink(single mode) for point- to point connectivity with driving distance up to 40 KMS. Power supply AC & DC option from single socket. Model - ECAT- 01L/unit to network with integrated Access Device such as Maple 4CS .Make- MROTEK or similar. Accepted Make/Brand-Mrotek make model ECAT 01L/SA/FE/2FX/SM or Similar.INSPECTED BY TPI Note:Item Should supply with minimum warranty Period of 3 years						
283	28	2.00	Numbers	818.30	1636.60	AT Par	1636.60
	<b>Description:-</b> Supply and Installation of Quartz Clock IS-12510 Q4 Category. Make: Ajanta Metal Dial And Hands Wall Clocks, Model: Ajanta Wall Clock M.No-7607 or Similar. INSPECTED BY CONSIGNEE						
284	29	2.00	Numbers	5955.63	11911.26	AT Par	11911.26
	<b>Description:-</b> "Supply & Installation of 19"" mount equipment Racks 9 U for housing telecom equipment with hinge door cooling fan, 5 Socket power extension board, cable manager, partition tray and accessories with locking arrangement on both door and wall mount arrangement. Make- Comrack, Rittel, HCL, D-LINK. (Inspection Authority: Consignee"						
285	30	2.00	Numbers	1709.17	3418.34	AT Par	3418.34
	<b>Description:-</b> Supply & installation of 20 Pairs DP boxes & termination of cables as per specification, drawing and stipulations of tender document or instruction of Railway Site Incharge. This includes all material required for fixing including hardwood/ hylum board and the hardware required for fixing. INSPECTED BY CONSIGNEE						
286	31	2.00	Numbers	2619.04	5238.08	AT Par	5238.08
	<b>Description:-</b> Supply & fixing of metal DP box 50 pair with locking arrangement fitted with krone module of reputed make. INSPECTED BY CONSIGNEE						
287	32	1.00	Numbers	461069.59	461069.59	AT Par	461069.59
	<b>Description:-</b> Supply, Transportation, Testing and installation of VHF based secured communication equipment consisting of microcontroller based equipment with built in voice/Data/ storage facilities 25 W VHF Radio with talking instrument, power supply (12VDC/15 Amp) sealed maintenance free battery bank 12V/120AH, Omni directional stacked dipole antenna. 50 mtr length RG-217 cable. Including portable programming and data back up Terminal with one additional receiver unit. Make- AE Tele link or similar as per RDSO specification no RDSO/SPN/TC/73/2008 with latest amendments. Supply item inspection by RDSO.						

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

288	33	2.00	Numbers	7476.49	14952.98	AT Par	14952.98	
	<b>Description:-</b> Supply, fixing and wiring of surge protection device in attachment plug module with replaceable surge protection for coaxial signal, interfaces N-connector plug/socket installed as surge protection between antenna and 25 W VHF sets, make- Phoenix Contact model CN-UB- 280DC-SB-28 18148 or similar. INSPECTED BY TPI							
289	34	1.00	Numbers	8032.50	8032.50	AT Par	8032.50	
	<b>Description:-</b> Supply, installation, Testing & commissioning of 12V, 100 AH VRLA Battery with battery interlink and lugs as per RDSO spec No. IRS -S-93/96(A) or latest. Make HBL, Exide, Amaron or better. Inspection: TPI							
290	35	1.00	Numbers	3159.45	3159.45	AT Par	3159.45	
	<b>Description:-</b> Supply and installation of 13.5 15 Amp SMPS Power supply having float cum boost Charging option for 25 Watt VHF set battery Charging. Make AXIOM BM 101B or similar Inspection: TPI							
291	36	2.00	Numbers	19071.77	38143.54	AT Par	38143.54	
	<b>Description:-</b> Supply,wiring , testing and commissioning of 1 KVA UPS with 1 hour backup on full rated load. Make APC, Uniline, Eaton or similar. Technical specification attached Annexure- R Inspection by TPI							
292	37	500.00	Metre	8.38	4190.00	AT Par	4190.00	
	<b>Description:-</b> Supply of 1" dia heavy duty PVC conduit pipe ISI mark with accessories like bend, tee, saddle, elbow etc. required during installation & fixing the same. Make: Sudhakar, Modi, Srinath or similar Inspection By Consignee							
293	38	1.00	Numbers	2636.00	2636.00	AT Par	2636.00	
	<b>Description:-</b> FAT SET UP ---Ugreen DP to DP Cable 3M HSN/SAC: 85444299. INSPECTED BY CONSIGNEE. Note:- The FAT setup shall be installed at JBP CTO/Office or any other location as decided by the Railway officials.							
294	39	1.00	Numbers	4987.00	4987.00	AT Par	4987.00	
	<b>Description:-</b> FAT SET UP-- Supply of SAEPL M12-RJ45 (5Mtr)Network Cable HSN/SAC: 85444299. INSPECTED BY CONSIGNEE. Note:- The FAT setup shall be installed at JBP CTO/Office or any other location as decided by the Railway officials.							
295	40	1.00	Numbers	38507.00	38507.00	AT Par	38507.00	
	<b>Description:-</b> FAT SET UP--- Supply of Microtek MAX- 3KVA 72VSW UPS HSN/SAC: 85044010 or similar. INSPECTED BY TPI. Note:- The FAT setup shall be installed at JBP CTO/Office or any other location as decided by the Railway officials.							
296	41	3.00	Numbers	5357.00	16071.00	AT Par	16071.00	
	<b>Description:-</b> FAT SET UP-- Supply of Exide EP 42AH 12V Battery HSN/SAC: 85044010 or similar.INSPECTED BY CONSIGNEE. Note:- The FAT setup shall be installed at JBP CTO/Office or any other location as decided by the Railway officials.							
297	42	2.00	Numbers	24187.50	48375.00	AT Par	48375.00	
	<b>Description:-</b> FAT SET UP ---DC-DC converter, ( 110V to 24V) Gallant or Similar Make. INSPECTED BY CONSIGNEE. Note:- The FAT setup shall be installed at JBP CTO/Office or any other location as decided by the Railway officials.							
298	Please see Item Breakup for details.				7099567.40	AT Par	7099567.40	
	<b>Description:-</b> Provision of Fire Suppression System							
	43	1.00	Job	325000.00	325000.00	AT Par	325000.00	

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

299

**Description:-** FAT testing for KTE station for Application logic bit list, ST/LT and Square sheet shall be handed over to firm. The firm shall start the FAT testing. In case any ATIR arises while testing same will be communicated to the OEM for rectification through railways and updated application logic shall be submitted by OEM. Subsequently FAT testing shall again be conducted on the updated application logic. After rectification of all the issues encountered during FAT, "FAT testing certificate" duly signed by IRSTELO license holders to be issued. Note: ASAT (Automatic SAT tester) The testing shall include all tests as prescribed in IRSEM-2021 (will all correction slips), para 21.5.2 on the subject of "Testing of Electronic Interlocking". The same will not be exhaustive and any other tests as decided by engineer in charge shall also be carried out during the test. Few of them are-- 1.Signal clearance with Operator. 2.SM key operational testing 3.Signal Cancellation with Normal operation & with SI cancellation. 4.Route release time delay verification. 5.Overlap release time delay verification. 6.All Counters' bit pick up with every emergency operation. 7.Auto point operation through route setting from opposite direction, from N to R & R to N. 8.Route release with simulation of long train & Short train. 9.No point operation with route set & with train on any part of the route (Back locking). 10.EWN point operation with concerned track down alone. 11.WWN point operation with track UP alone. 12.Line block/unblock function verification. 13.ST/LT testing 14.Square sheet (cross sheet) testing with Signal OFF and Signal ON route set. 15.Crank handle and LC functional testing. 16.Negative testing i.e. when a signal is cleared, all controls (ECR, track, point detection, slots, CH, LC Gate control, etc.) required for that signal should be up and all other controls down. 17.Free route tracker, approach lock testing, TSR testing. Documentation of entire testing procedure and its corresponding results to ensure compliance with the specified operational testing conditions.

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule ( ) F-ELECTRICAL (TRD)</b>							7061584.96	
1	Please see Item Breakup for details.				264909.94	AT Par	264909.94	
	<b>Description:-</b> Supply ,Transportation and Erection of fabricated galvanised steel mast for AT mounting.							
2	2	0.60	MT	129158.97	77495.38	AT Par	77495.38	
	<b>Description:-</b> Supply and Erection of Fabricated steel /SPS including channel for AT/LA mounting							
3	Please see Item Breakup for details.				675421.24	AT Par	675421.24	
	<b>Description:-</b> Supply, erection, oil filtration, testing & commissioning of LT supply transformer 25kVA of 25 kV/230 V along with fittings as per RDSO's specification no. ETI/PSI/15 (8/2003) or latest							
4	Please see Item Breakup for details.				339102.22	AT Par	339102.22	
	<b>Description:-</b> Supply, erection, Fixing, testing and commissioning of 150A Amp CLS panel as per RDSO specification no TI/SPC/PSI /CLS/0022 or latest.							
5	5	20.00	cum	8589.31	171786.20	AT Par	171786.20	
	<b>Description:-</b> Cement concrete foundation in other than hard soil. Erection without Power Block							
6	Please see Item Breakup for details.				76517.84	AT Par	76517.84	
	<b>Description:-</b> Supply, Erection, & commissioning of single phase 25 KV DO fuse unit complete with Pedestal insulator assembly as per RDSO's specification no. ETI/PSI/14 (01/86) Rev.I (Apr. 87) and Drg. No.ETI/PSI/032 or latest							
7	Please see Item Breakup for details.				14828.88	AT Par	14828.88	
	<b>Description:-</b> Supply & Erection of Anti climbing arrangement (device) as per Drg. No.ETI/PSI/037.							
8	Please see Item Breakup for details.				27738.68	AT Par	27738.68	
	<b>Description:-</b> Supply & erection of LV box assembly with 200 Amp MCB(D/pole) & 200 Amp porcelain cut out as per DRG. ETI/PSI/031							
9	Please see Item Breakup for details.				102972.00	AT Par	102972.00	
	<b>Description:-</b> Supply & Erection of GI pipe 'B' class heavy duty dia 50 mm for L.T. Cable							
10	Please see Item Breakup for details.				20382.60	AT Par	20382.60	
	<b>Description:-</b> Supply and erection of cable route marker							
11	11	3600.00	Metre	148.02	532872.00	AT Par	532872.00	
	<b>Description:-</b> Normal Cable laying in Earth (This involves Excavation of 1000 mm deep trench in soil/hard murrum/tar road/below Railway track. Then the bottom of the trench should be leveled, freed from stones / sharp edges of rocks. Then lay a bed of 75mm thick fine sand at bottom of the trench. After this the cable shall be laid and then both sides are to be covered with bricks, thereafter sand to be filled on the cable by 75mm thick layer followed with final covering top side by bricks. The rest of the trench to be refilled by sheaved earth.) cable will be supplied by railway							
12	12	400.00	Metre	363.68	145472.00	AT Par	145472.00	
	<b>Description:-</b> Under track cable laying (cable will be Supplied by Railway)							
13	Please see Item Breakup for details.				133915.00	AT Par	133915.00	
	<b>Description:-</b> Supply and erection of Hume pipe 150 -450 mm dia with RCC color							

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

14	Please see Item Breakup for details.	36610.24	AT Par	36610.24	
	<b>Description:-</b> Supply and erection of 9 ton insulator with Arcing horn arrangement				
15	Please see Item Breakup for details.	21132.80	AT Par	21132.80	
	<b>Description:-</b> Supply and erection of copper strip for LV terminal earthing size 25 mmx3 mm				
16	Please see Item Breakup for details.	12302.40	AT Par	12302.40	
	<b>Description:-</b> Supply ,connecting ,commissioning of cable termination along with lugs,clamps fixtures,glands etc for 1100 V grade cable (Each set contains piece for both the ends of cable ) 2 core 150 sq.mm.				
17	17	10.00	Numbers	747.47	7474.70
	<b>Description:-</b> Supply of suspension clamp complete with all accessories and fasteners as per RDSO Drg. No.-RE/33/P/1160				
18	18	5.00	Numbers	64429.42	322147.10
	<b>Description:-</b> 42 KV, 10 KA METAL OXIDE GAPLESS TYPE LIGHTNING ARRESTOR WITH INSULATING BASE AND SURGE MONITOR AS PER RDSO SPECIFICATION NO. TI/SPC/PSI/MOGTLA/0101 (02/2015) OR LATEST.				
19	19	4.00	Numbers	1573.02	6292.08
	<b>Description:-</b> Erection of 42 KV LA. With surge monitor and disconnector assembly.				
20	20	10.00	Numbers	3942.14	39421.40
	<b>Description:-</b> Supply of Disconnector assembly suitable for lightening arrestor of 25KV side of traction system as per RDSO spec no. TI/SPC/PSI/MOGTLA/0101(02/2015) or latest.				
21	Please see Item Breakup for details.	36006.60	AT Par	36006.60	
	<b>Description:-</b> Supply & erection of Copper cable 40 sq mm				
22	22	250.00	Metre	5668.03	1417007.50
	<b>Description:-</b> Drilling of horizontal bore below track by pushing method for laying of RC pipes of various sizes upto 450 mm dia.				
23	23	4.00	Numbers	2814.23	11256.92
	<b>Description:-</b> Dismantling of existing AT with all associated equipment, panel etc.w/o PB				
24	Please see Item Breakup for details.	4954.36	AT Par	4954.36	
	<b>Description:-</b> Supply and erection of Retroreflective Number plate with complete fittings				
25	Please see Item Breakup for details.	23078.60	AT Par	23078.60	
	<b>Description:-</b> Supply and erection of Structure Bond (from ATto earth pit, duplicate earthing, and mast to rail & earth pit to rail)				
26	26	20.00	Kg	1047.13	20942.60
	<b>Description:-</b> Supply of Copper jumper 50 sq mm with clamping arrangement				
27	27	4.00	Numbers	1387.46	5549.84
	<b>Description:-</b> Erection of Copper jumper 50 sq mm with clamping arrangement				
28	28	200.00	MT-Km	104.25	20850.00
	<b>Description:-</b> Picking up, loading, unloading and transportation of OHE material				
29	Please see Item Breakup for details.	112733.12	AT Par	112733.12	
	<b>Description:-</b> Supply and erection of earth electrode, Earth pit, Earth pit cover as Earthing as per drawing no. ETI/OHE/P/7020-Conventional earthing				
30	30	200.00	Numbers	322.18	64436.00
	<b>Description:-</b> Supply of contact wire PG clamp assembly RI no.-1040-2 as per latest RDSO specification no. ETI/OHE/P/1040-2 Rev. E				
31	Please see Item Breakup for details.	5076.16	AT Par	5076.16	
	<b>Description:-</b> Supply and erection of caution board and danger board				
32	32	2000.00	Metre	336.26	672520.00
	<b>Description:-</b> Supply, erection, laying and fixing of DW/ HDPE pipe of 160/138 mm diameter for cabling under track ( Price are inclusive of Supply and erection both)				
33	Please see Item Breakup for details.	16369.60	AT Par	16369.60	
	<b>Description:-</b> COPPER TUBULAR TERMINAL LUG HEAVY DUTY LONG BARREL, TIN PLATED FOR SIZE 150 SQMM				
34	34	4.00	Numbers	20044.74	80178.96
	<b>Description:-</b> Supply, Install, test & Commission of outdoor type Junction Box With IP-54 Protection & 1X125/100Amps, 4-pole, 36Ka , 415 volt MCCB incoming & Brass cable gland for 02nos. Incoming & 04nos. Outgoing cable, 100Amp Rated Aluminium busBar & other Accessories. As per specification				
35	35	10.00	Numbers	2183.00	21830.00

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

<b>Description:-</b> Fuse carrier tube along with Swivel hook and end fitting for 25 KV DO Fuse assembly as per RDSO Specification No. ETI/PSI/14 (1/86) Rev-1 (Apr-87) and as per RDSO Drawing no. ETI/PSI/032 (Mod-D) & ETI/PSI/038								
36	36	4000.00	Metre	380.00	1520000.00	AT Par	1520000.00	
<b>Description:-</b> Supply of 2 core 150 sq mm XLPE aluminium armoured PVC cable.								
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> ( ) G-Electrical(General)							4176112.58	
1	Please see Item Breakup for details.				264484.38	AT Par	264484.38	
	<b>Description:-</b> LT power panel outdoor type fabricated approx size 1.25x1.25x0.4 mtrs made out of 2 mm MSsheetpowder coated paint having copper busbar of size 50x6x suitable length .The incoming shall aying2x250 A MCCB 4 pole 25 KA and outgoing with 2x200 A MCCB 4 pole plus2x100 A 4 pole MCCB & 2x63A MCCB .The panel shall have one multifunctional meter.All MCCB will be 4 pole make Legrand, ABBL&T or equivalent.The panel shall have channels at the baseof suitable size.The erection is to be done on suitable foundation of cement concrete mixtures. (Dismantling of existing panel, structre,disconnection , reconnection of cable and released material transported to nearest depot by contractor)Design of panel will be approved by competent authority before supply,2 mm MS sheet duly painted with powder coated , IP-65, IK-09 having suitable copper bus bars with sleeves , indicating lamps, multifunction meter , Gland ,Lugs, Foundation , earthing , Door Lock arrangement, padlock,suitable MS channel, SWG wire etc.							
2	Please see Item Breakup for details.				42966.24	AT Par	42966.24	
	<b>Description:-</b> Supply erection and commissioning SDB for Power. TPN DB 4 way (8+12) IP-43, IK-08 with metal door, with 63A TPN incomer and outgoing having 5x 32A SP MCB and 5 x 20/16A SP MCB. Make- ABB, Legrand, L&T, Hager, schneider, or similar make.							
3	Please see Item Breakup for details.				35964.60	AT Par	35964.60	
	<b>Description:-</b> Supply erection and commissioning of SDB for light and fan. TPN DB 4 way (8+12) IP-43 , IK08 with metal door,earthing, isolated neutral bar with ELCB, RCCB , 32A TPN incomer and outgoing having 5 x 10A SP MCB and 5 x6A SP MCB make- L&T, Legrand, ABB or equivalent.							
4	Please see Item Breakup for details.				84265.20	AT Par	84265.20	
	<b>Description:-</b> Supply & Erection of C/Fan, High energy efficient 5 star rated BLDC fan with regulator, having sweep size 1200mm, operating voltage 140-270, maximum hourly power consumption of 32W with double ball bearing and Airflow minimum CMM220, suitable down rod , Metal fan hook, flexible Pipe, with all necessary arrangement make- Atomberg, Havells, CG or equivalent,Sample will be approved competent authority before supply							
5	Please see Item Breakup for details.				13158.70	AT Par	13158.70	
	<b>Description:-</b> Supply Exhaust Fan 380 mm Metal Number of pole (in Nos.) 6 Number of blades 3 , Power factor 0.9 ,and Erection of E/Fan 380mm sweep including Nut ,bolts, fastner etc. Make- Usha, Anchor, Bajaj or equivalent Sample will be approved competent authority before supply.							
6	Please see Item Breakup for details.				69770.40	AT Par	69770.40	
	<b>Description:-</b> Point Wiring : This includes provision of wiring with 1.5 sq mm copper stranded PVC insulated wire [ L & N and earth ]from MDB/SDB/ Board to light & fan control board and provision of control switch on common light and fan control board , together with wiring from control board to ceiling rose and provision of ceiling rose on board ; with earth continuity wire; independent for each fitting. Cost of this item is inclusive of distributed cost of common board & wiring from MDB/SDB/Board to common board in addition to items specifically mentioned, Switch ,socket modular plate, fan box approved by consignee/ supervisor assigned by Sr.DEE(G)/JBP.							
7	Please see Item Breakup for details.				64800.00	AT Par	64800.00	
	<b>Description:-</b> Supply, erection, testing and commissioning of Sub Main with 2 x2.5 sqmm FRLS copper wire inside PVC Casing caping/ concealed with running earth etc complete. (1 m length of submain consists one cktmtr including all accessories & 2 wire of 2.5 sqmm with one wire of 1.5 sqmm for earth conn).							
8	Please see Item Breakup for details.				91335.00	AT Par	91335.00	
	<b>Description:-</b> Supply, erection, testing and commissioning of Sub Main with 2 x4 sqmm FRLS copper wire inside PVC Casing caping / concealed with running earth etc complete. (1 m length of submain consists one cktmtr including all accessories & 2 wire of 4 sq mm with one wire of 1.5 sq mm for earth conn)							
9	Please see Item Breakup for details.				73210.50	AT Par	73210.50	
	<b>Description:-</b> Supply, erection, testing and commissioning of Sub Main with 2 x6 sqmm FRLS copper wire inside PVC Casing caping / concealed with running earth etc complete. (1 m length of submain consists one cktmtr including all accessories & 2 wire of 4 sqmm with one wire of 1.5 sqmm for earth conn).							
10	Please see Item Breakup for details.				37206.00	AT Par	37206.00	

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

	<b>Description:-</b> Supply, Erection, testing and commissioning of AC/Geyser point wiring with metal / Modular box, MCB 20 Amake- Havells, Legrand, ABB, L&T or equivalent ample will be approved competent authority before supply.				
11	Please see Item Breakup for details.	7438.50	AT Par	7438.50	
	<b>Description:-</b> PVC conduit 25 mm dia as per IS-9537 with suitable clamps fixtures, nuts & bolts etc.				
12	Please see Item Breakup for details.	3197.00	AT Par	3197.00	
	<b>Description:-</b> 6A 5 pin socket point on fan and light control board Wipro , Phillips, Orient, Bajaj or equivalent.Socket approved by consignee/ supervisor assigned by Sr.DEE(G)/JBP.				
13	Please see Item Breakup for details.	9635.60	AT Par	9635.60	
	<b>Description:-</b> Supply erection and commissioning of 5 pin 5A on separate boards: here wires shall run separate from SDB MakeABB, Legrand, L&T or equivalent Sample will be approved competent authority before supply.				
14	Please see Item Breakup for details.	18916.40	AT Par	18916.40	
	<b>Description:-</b> Supply erection and commissioning of 16A & 6 pin socket point on separate circuit and board. Make ABB,Legrand, L&T or equivalent Sample will be approved competent authority before supply				
15	Please see Item Breakup for details.	2073.80	AT Par	2073.80	
	<b>Description:-</b> Concealed metal box boards Supply, fixing of concealed metal box boards + modular sheet plate suitable for modular switches/sockets/regulator/AC point/Geyser etc. front open type (for concealed wiring). This includes masonry work happened at the time of execution of the work and its associated repairs. All material required for this job will be supplied by contractor. Four module box of Phillips, Orient, Bajaj or equivalent.				
16	Please see Item Breakup for details.	3321.40	AT Par	3321.40	
	<b>Description:-</b> Concealed metal box boards Supply, fixing of concealed metal box boards + modular sheet plate suitable for modular switches/sockets/regulator/AC point/Geyser etc. front open type (for concealed wiring). This includes masonry work happened at the time of execution of the work and its associated repairs. All material required for this job will be supplied by contractor. Six module box of Phillips, Orient, Bajaj or equivalent.				
17	Please see Item Breakup for details.	2543.90	AT Par	2543.90	
	<b>Description:-</b> Concealed metal box boards Supply, fixing of concealed metal box boards + modular sheet plate suitable for modular switches/sockets/regulator/AC point/Geyser etc. front open type (for concealed wiring). This includes masonry work happened at the time of execution of the work and its associated repairs. All material required for this job will be supplied by contractor. Eight module box of Phillips, Orient, Bajaj or equivalent.				
18	Please see Item Breakup for details.	7010.74	AT Par	7010.74	
	<b>Description:-</b> Concealed metal box boards Supply, fixing of concealed metal box boards + modular sheet plate suitable for modular switches/sockets/regulator/AC point/Geyser etc. front open type (for concealed wiring). This includes masonry work happened at the time of execution of the work and its associated repairs. All material required for this job will be supplied by contractor. Twelve module box of Phillips, Orient, Bajaj or equivalent.				
19	Please see Item Breakup for details.	24329.35	AT Par	24329.35	
	<b>Description:-</b> Cutting of wall for insertion of 1" dia PVC conduit, fixing hardwares for fixing the conduit along with its supply and then replaster it with cement and sand mixture and then painting with matching colour as per existing colour of the wall. Proper joints in pipes, bends/elbows/ junctions are to be provided as per site requirement.				
20	Please see Item Breakup for details.	1274.35	AT Par	1274.35	
	<b>Description:-</b> Supply and laying/connecting of 8/10/12 SWG GI wire as per requirement at site. This is to be connected with the earth pit to the installation				
21	21	250.00	Metre	31.43	7857.50
	<b>Description:-</b> Cable laying on wall /pole and other similar places fixing using MS flat [25x6mm.]clamps, nuts, bolts,screws or nails as per site requirement				
22	Please see Item Breakup for details.	411529.76	AT Par	411529.76	
	<b>Description:-</b> Supply, fixing, testing and commissioning of 1.5 Ton 5 Star rating Split AC, single Phase, dust filter, make Mitsubishi Heavy, OGernal,daikin, Samsung or equivalent with suitable size of stand. Metallic cage, copper tube as per site requirement, and all other accessories required for installation.				
23	Please see Item Breakup for details.	1212419.30	AT Par	1212419.30	
	<b>Description:-</b> Supply and Erection of 4 Ton tower AC make- O Gernal, DAIKIN, Mitsubishi, or equivalent.				
24	Please see Item Breakup for details.	98583.96	AT Par	98583.96	

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

	<b>Description:-</b> Supply and erection of outdoor control box of IP54 degree of protection, Switch On-Off street lights on time scheduling basis by incorporating an analog/digital time switch and contactor, 32A 230 V 3P Timelite Distribution Boards-Analog Time Switch, IS/IEC 13947-27 Make- Havells, ABB, L&T , or equivalent.						
25	Please see Item Breakup for details.			30336.36	AT Par	30336.36	
	<b>Description:-</b> Pipe earthing as per IS 3043.						
26	26	120.00	Metre	446.56	53587.20	AT Par	53587.20
	<b>Description:-</b> Excavation of Cable trench in Cement Concrete and laying of cable						
27	27	500.00	Metre	113.56	56780.00	AT Par	56780.00
	<b>Description:-</b> Cable laying double in earth.(LT, HT both type) The cable shall be supplied by Railways free of cost from depot at JBP which shall have to be transported and then its laying.						
28	28	20.00	Metre	868.93	17378.60	AT Par	17378.60
	<b>Description:-</b> Pucca Cable trench: Construction of cable trench and laying of UG cable in 700 mm deep cable trench made of RCC with MS channel. This includes supply of all materials erection, commissioning of cable & trench etc. The laying of cable from transformer to the panel board shall be done in cable trench made of RCC complete with excavation of soil, construction of RCC wall for a height of 700 mm and inside width of 500 mm. Both wall and bottom surface of inside trench shall be finished with a fine coating of plaster. This constructed cable trench shall be covered with concrete slabs each of requisite width and a length of 1m.						
29	Please see Item Breakup for details.			1232.20	AT Par	1232.20	
	<b>Description:-</b> Cable route marker; Supply & providing cable route markers marked with L.T./H.T. cable as required as per relevant IS & at every turning points/road crossings and at 20mtrs distance.						
30	Please see Item Breakup for details.			47785.00	AT Par	47785.00	
	<b>Description:-</b> Supply & laying of HDPE pipe 2" dia in track/road crossing with required accessories						
31	Please see Item Breakup for details.			154657.50	AT Par	154657.50	
	<b>Description:-</b> Provision & laying of HDPE pipe 4" dia in tack crossing including jointing etc. with required accessories etc.						
32	Please see Item Breakup for details.			3980.20	AT Par	3980.20	
	<b>Description:-</b> Supply and erection of 50 mm dia GI pipe B class.						
33	Please see Item Breakup for details.			18503.80	AT Par	18503.80	
	<b>Description:-</b> Supply & fixing of GI pipe of B class for cable support -100 mm dia.						
34	Please see Item Breakup for details.			53.63	AT Par	53.63	
	<b>Description:-</b> Supply & erection of 8 SWG GI wire						
35	Please see Item Breakup for details.			64.10	AT Par	64.10	
	<b>Description:-</b> Supply & erection of GI earth strip 30/25 x 5 mm						
36	36	4.00	Numbers	17174.31	68697.24	AT Par	68697.24
	<b>Description:-</b> Construction of cable Loop chamber of suitable size in KB bricks & covered with 2" thick concrete slab for protection of cable & provision for lifting of cover.						
37	37	120.00	Metre	4958.56	595027.20	AT Par	595027.20
	<b>Description:-</b> Drilling of horizontal bore below track / road/ soil/ concrete by pushing method for laying of HDPE pipe up to 450 mm dia( HDPE Pipe will be supply by contractor )						
38	38	10.00	Numbers	2764.94	27649.40	AT Par	27649.40
	<b>Description:-</b> Rerection of octagonal steel pole(4-6 mtr) on cement concrete foundation complete with foundation bolts, excavation of earth single arm, junction box , MCB, Backelite plate etc (Collect from JBP Depot)						
39	39	500.00	Metre	189.00	94500.00	AT Par	94500.00
	<b>Description:-</b> Removing, Shafting, relaying of existing cable in trench, wall, soil, roof, track crossing, road crossing, cable tray, etc. including MS clamp, nut, bolt, Screw, Nails, gland, lugs. Disconnection, proper reconnection, from panel or any other thing.						
40	40	10.00	Numbers	712.62	7126.20	AT Par	7126.20
	<b>Description:-</b> Dismantling of Rail pole/ H Beam /Octagonal Pole.						
41	Please see Item Breakup for details.			270547.40	AT Par	270547.40	
	<b>Description:-</b> Supply & erection OF 4MTRS OCTAGONAL POLE along with base plate, excavation of earth , nut bolts etc and foundation along with arm for holding fitting Sample will be approved by competent authority before supply.						
42	42	1.00	Numbers	13390.14	13390.14	AT Par	13390.14
	<b>Description:-</b> Shifting and rerection of of existing high mast to other location and commissioning with the power supply arrangement.(With Foundation, New control Panel, nutb, bolt, templet, washer, protection of High mast, painting etc. )						
	43	2.00	Numbers	1506.89	3013.78	AT Par	3013.78

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

43	<b>Description:-</b> Erection of water coolers : Water Coolers will be supplied free of cost by the Railways and the same shall be collected by the contractor from depot, Jabalpur. Erection includes its foundation on proper place,making points on metal clad plug socket etc.							
44	44	60.00	Metre	685.68	41140.80	AT Par	41140.80	
	<b>Description:-</b> Providing & erecting Hot dipped Galvanized Perforated type Cable tray manufactured from 16 SWG(1.6 thick) sheet 400 mm width & 75 mm height complete with necessary coupler plates & hardware.							
45	45	60.00	Kg	188.64	11318.40	AT Par	11318.40	
	<b>Description:-</b> Supply, Installation, Testing and commissioning of MS Fabrication in angle with primer coating, Enamel pant ,channel and flat for supports to equipments panels stands and cable trays.							
46	Please see Item Breakup for details.				56277.30	AT Par	56277.30	
	<b>Description:-</b> Supply, erection, testing & commissioning of 36 W LED street light fittings suitable for 230V AC, 50 Hz comprise a single piece deep drawn aluminium housing IP-65 colour temp 5500-7000K with connection etc. with suitable fixtures and clamps etc Make- Bajaj, Surya, Havells, crompton or Similar make.							
47	Please see Item Breakup for details.				15773.55	AT Par	15773.55	
	<b>Description:-</b> Supply and Erection of 1 x 18/20W LED fittings 4 feet length. The fittings shall have to be erected by the contractor with all fixing accessories/MS clamps, nuts bolts etc. as per requirement at site.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> () H1-Provision of KTE END CABIN Building under ADEN KTE Sub Division							10425591.42	
1	Please see Item Breakup for details.				10595113.23	(-) 1.60	10425591.42	
	<b>Description:-</b> DSR item							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> () H2-Provision of Central CABIN(VDU) Building under ADEN KTE Sub Division							18309100.45	
1	Please see Item Breakup for details.				18606809.40	(-) 1.60	18309100.45	
	<b>Description:-</b> DSR item							

**3. ITEM BREAKUP**

<b>Schedule</b>	Schedule C-Supply Other than Sch-A & Sch-B					
<b>Item-136</b>	Station Working Rules (SWR) and Station Working Rule Diagram					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Preparation of Station Working Rules (SWR) in English and station working rule diagram/gate working rule diagram(if any) on the basis of SIP to be supplied by the contractor. Submission of two draft copy to railway for checking and resubmission of draft in three copies for approval of division after making corrections. Soft copy (Editable form) to be supplied in pen drive.	Set	1.00	9334.64	9334.64
2	2	Preparation of Station Working Rules (SWR) in Hindi/Regional Language of that station. Procedure to be followed as per above item.	Set	1.00	11315.00	11315.00
3	3	Supply of 1 copy of SWR in English/Hindi/Regional finally approved by railways along with spiral binding. This has to be done after CRS sanction has been obtained.	Numbers	1.00	434.00	434.00

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

4	4	Fabrication, supply & screen printing of SWRD/ RSP/ Laminated board/ System information board/ failure information board on white formica of 1800x 600x 3mm as per instruction of site engineer. Proportion payment will be made if size of board get increased or decreased. (INSPECTION BY CONSIGNEE)	Numbers	3.00	1867.00	5601.00
					<b>Total</b>	<b>26684.64</b>
<b>Item-172</b>	Supply and provision of MS cable tray of thickness 1.5mm, including top cover for closing for installation. Installation to be carried out as per the instruction of Engineer at site. MS cable tray including cover should be powder coated with siemens gray colour. INSPECTED BY CONSIGNEE					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	400mm (L) X 300mm (W)	RMT	100.00	3756.55	375655.00
2	2	400mm (L) X 150mm (W)	RMT	100.00	3125.93	312593.00
3	3	250mm (L) X 100mm (W)	RMT	100.00	2384.82	238482.00
					<b>Total</b>	<b>926730.00</b>
<b>Schedule</b>	Schedule E-Supply & Execution Items (S&T)					
<b>Item-298</b>	Provision of Fire Suppression System					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply of UL/FM/VDS/LPCB Listed Brass Nozzle type RVBRZ, Nozzles shall have 360 Deg. /180 Deg. Throw, selection as per approved hydraulic flow calculations complying to RDSO/ SPN/218/2016 Version 1.0- d2 or Latest. Inspection : RDSO	Numbers	20.00	3856.72	77134.40
2	2	Supply of 80 Litres Capacity seamless Cylinder CCOE approved, complete with valve assembly and digital pressure gauge with a safety burst disc and a safety cap and shall comply to RDSO/SPN/218/2016 or latest .. Gauge with a safety burst disc and a safety cap.	Numbers	1.00	127191.69	127191.69
3	3	Supply of 120 Litres Capacity seamless Cylinder CCOE approved, complete with valve assembly and digital pressure gauge with a safety burst disc and a safety cap and shall comply to RDSO/SPN/218/2016 or latest .. Gauge with a safety burst disc and a safety cap	Numbers	1.00	151607.96	151607.96
4	4	Supply of 180 Litres Capacity seamless Cylinder CCOE approved, complete with valve assembly and digital pressure gauge with a safety burst disc and a safety cap and shall comply to RDSO/SPN/218/2016 or latest .. Gauge with a safety burst disc and a safety cap	Numbers	5.00	227411.28	1137056.40
5	5	Supply of UL/FM/LPCB Listed 24VDC Solenoid (Electrical) actuator assembly complying to RDSO/ SPN/218/2016 Version 1.0- d2 or Latest.Inspection : RDSO	Numbers	5.00	24222.24	121111.20
6	6	'Supply of 1-1/2" Manifold check valve installed at the discharge manifold to allow removal of any FK-5-1-12 cylinder from the manifold while still retaining a closed system.	Numbers	4.00	17987.56	71950.24
7	7	'Supply of Cylinder strap use with 80/ 120/ 140L cylinder OEM manufacturer only.	Numbers	14.00	1545.11	21631.54
8	8	Supply of pilot line accessories with bleed valve at every end for pneumatically actuated Cylinder.	Numbers	2.00	3006.66	6013.32

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

9	9	'Supply of M S Seamless pipe as per Gr. B painted with 2 coats of primer and 2 coats of Red Enamel Paint as per the design & site requirements. It shall be as per ow calculations for the specific hazard volume and stand to hold, position & Support the Manifold and Piping properly. Pressure testing for piping shall be with Nitrogen as per NFPA 2001. Inspection : RDSO	Lot	7.00	33970.39	237792.73
10	10	Supply of Cylinder rack support, pipe support, manifold & all other accessories required to complete the system	Lot	7.00	67529.86	472709.02
11	11	Supply of Gas release panel	Numbers	5.00	16697.18	83485.90
12	12	'Supply of Linear Pneumatic Heat Detection Tube kit, (Standard) for In-Cabinet Automatic Fire Suppression System (ICAFSS) system as per RDSO specification no.RDSO/SPN/218/2016 Ver 1.0-d2 or latest(inspection by RDSO)"	Metre	100.00	1673.40	167340.00
13	13	'Supply of master control unit for In-Cabinet Automatic Fire Suppression System(ICAFSS) system as per RDSO specification no. RDSO/SPN/218/2016 Ver 1.0-d2 or latest(inspection by RDSO)	Numbers	10.00	40650.07	406500.70
14	14	Supply of motorized Fire Damper with relay arrangement for tripping of Exhaust fan.	Numbers	7.00	78800.40	551602.80
15	15	Supply, Installation, testing and commissioning of UL/FM/LPCB Listed Manual Release Unit Stations with DPDT Relay, shall be fitted with transparent hinged covers to avoid the possibility of accidental operation. The Release switch will be monitored simultaneously by Fire Alarm and Remote Monitoring Software complying to RDSO/ SPN/218/2016 Version 1.0- d2 or Latest. Inspection : RDSO	Numbers	5.00	2202.06	11010.30
16	16	Supply, Installation, testing and commissioning of UL/FM/LPCB Listed Manual Gas Abort Unit Stations with DPDT Relay, shall be fitted with transparent hinged covers to avoid the possibility of accidental operation. The abort will be monitored simultaneously by Fire Alarm and Remote Monitoring Software complying to RDSO/ SPN/218/2016 Version 1.0- d2 or Latest. Inspection : RDSO	Numbers	5.00	2202.06	11010.30
17	17	'Supply, Installation, testing and commissioning of Human Proximity Sensor. It shall have Warning Sign Board with Marking "GAS DISCHARGE. DO NOT ENTER". Shall operate on 24 V DC, Driver Through Gas Release Panel (for use outside room) complying to RDSO/ SPN/218/2016 Version 1.0- d2 or Latest. Inspection : RDSO	Numbers	5.00	48953.53	244767.65

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

18	18	Supply and Installation of In cabinet automatic re suppression system(ICAFSS), (Enclosure volume-Approx 2.7 Cu Mtr) with following provision- 2Kg clean agent capacity Seamless Aluminium Seamless cylinder of 2.7 Ltr water capacity (UL & PESO approved) Test Pressure 53 Bar, tted with DLP valve- 1No, clean agent Gas(FK5-1-12)-2 Kg, Pressure Gauge(UL Approved) and Pressure Switch(UL Approved)- 1No and EOL In cabinet Monitoring Panel 1(ICMP) along with sounder/strobe, suitable to monitor up to 4 Nos of ICAFSS SVS Firetrex make or similar complete in all respect with all necessary accessories. The system will have an interface with main re alarm control panel through monitor module as per RDSO specification RDSO/SPN/218/2016 ver1.0 or latest	Set	10.00	74923.20	749232.00
19	19	Supply, Installation, testing and commissioning of UL/FM/LPCB Listed Manual Actuator complying to RDSO/ SPN/218/2016 Version 1.0- d2 or Latest. Inspection : RDSO	Numbers	5.00	4725.36	23626.80
20	20	Supply, Installation, testing and commissioning of UL/FM/LPCB Listed Pneumatic Actuation Assembly complying to RDSO/ SPN/218/2016 Version 1.0- d2 or Latest. Inspection : RDSO	Numbers	2.00	5886.28	11772.56
21	21	Design, Supply and Installation of of FK-5-1-12 Fire protection uid compound of carbon, fluorine and oxygen (CF3CF2C(O)CF(CF3)2) complying to RDSO/ SPN/218/2016 Version 1.0- d2 or Latest. Inspection : RDSO	Kg	772.00	1905.59	1471115.48
22	22	Supply, Installation, testing and commissioning of UL/FM/LPCB Listed Discharge Pressure Switch complying to RDSO/SPN/218/2016 Version 1.0- d2 or Latest. Inspection : RDSO	Numbers	5.00	13762.33	68811.65
23	23	'Supply, Installation, testing and commissioning of UL/FM/LPCB Listed Pneumatic Actuation Hose complying to RDSO/ SPN/218/2016 Version 1.0- d2 or Latest. Inspection : RDSO	Numbers	4.00	3006.66	12026.64
24	24	Installation o f motorized Fire Damper with relay arrangement for tripping of Exhaust fan	Numbers	7.00	14160.28	99121.96
25	25	'UL/VDS Flow Calculation	Job	7.00	26956.96	188698.72

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

26	26	Installation, testing and commissioning of Automatic fire (Suppression) protection system complete with cylinders, aspiration sensor, gas discharge piping, control Panel, flame sensor, smoke as per RDSO SPN No. RDSO/ SPN/218/2016 Version 1.0- d2 or Latest sensors, hoses, actuator etc. and this also includes Supply, Installation, Testing and commissioning of Integrated Remote Monitoring system Software for complete as per specifications, for integrating, Fire alarm system, VESDA system for monitoring at Division Head Quarter including scope such as Remote Monitoring Software 1 no. and 32 Bit IP based Direct Digital controller 1 no. with on board NBacmet & Modbus protocol for Integration with Fire Alarm Panel to monitor status of cylinder pressure switch, panel operating mode, Fire status on Remote Monitoring Software. The software should have capabilities to send mail alert. The system should comprises of necessary panel, switches, cables etc. required to complete the Job.	Job	10.00	31241.50	312415.00
27	27	Supply, Installation, testing and commissioning of UL/FM/LPCB Listed high pressure Discharge hose complete with Listed Adapters & Accessories as required. As per RDSO Specification No. RDSO/ SPN/218/2016 Version 1.0- d2 or Latest. Inspection : RDSO	Numbers	7.00	10036.31	70254.17
28	28	Supply and Installation of self contained fire tube extinguisher with FK-5-1-12 clean agent, Pressure gauge, Low pressure supervisory switch for suitable to extinguish fire in air conditioner.	Numbers	7.00	23773.51	166414.57
29	29	Supply, Testing & Commissioning of Hooter cum Strobe complying to the RDSO/SPN/217/2025 Ver 3.1 or latest. Spares shall be supplied as per RDSO specification.	Numbers	5.00	5232.34	26161.70
					<b>Total</b>	<b>7099567.40</b>
<b>Schedule</b>	Schedule F-ELECTRICAL (TRD)					
<b>Item- 1</b>	Supply ,Transportation and Erection of fabricated galvanised steel mast for AT mounting.					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	MT	1.50	163106.89	244660.34
2	2	Erection	MT	1.50	13499.73	20249.60
					<b>Total</b>	<b>264909.94</b>
<b>Item- 3</b>	Supply, erection, oil filtration, testing & commissioning of LT supply transformer 25kVA of 25 kV/230 V along with fittings as per RDSO's specification no. ETI/PSI/15 (8/2003) or latest					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Numbers	4.00	163627.10	654508.40
2	2	Erection without Power Block	Numbers	4.00	5228.21	20912.84
					<b>Total</b>	<b>675421.24</b>
<b>Item- 4</b>	Supply, erection, Fixing, testing and commissioning of 150A Amp CLS panel as per RDSO specification no TI/SPC/PSI /CLS/0022 or latest.					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Numbers	3.00	109709.54	329128.62
2	2	Erection without Power Block	Numbers	2.00	4986.80	9973.60
					<b>Total</b>	<b>339102.22</b>
<b>Item- 6</b>	Supply, Erection, & commissioning of single phase 25 KV DO fuse unit complete with Pedestal insulator assembly as per RDSO's specification no. ETI/PSI/14 (01/86) Rev.I (Apr. 87) and Drg. No.ETI/PSI/032 or latest					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Numbers	4.00	17951.89	71807.56

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

2	2	Erection Without Power Block	Numbers	4.00	1177.57	4710.28
<b>Total</b>					<b>76517.84</b>	
<b>Item- 7</b>	Supply & Erection of Anti climbing arrangement (device) as per Drg. No.ETI/PSI/037.					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Numbers	8.00	1539.02	12312.16
2	2	Erection Portion without Power Block	Numbers	8.00	314.59	2516.72
<b>Total</b>					<b>14828.88</b>	
<b>Item- 8</b>	Supply & erection of LV box assembly with 200 Amp MCB(D/pole) & 200 Amp porcelain cut out as per DRG. ETI/PSI/031					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Numbers	4.00	6102.18	24408.72
2	2	erection Portion without Power block	Numbers	4.00	832.49	3329.96
<b>Total</b>					<b>27738.68</b>	
<b>Item- 9</b>	Supply & Erection of GI pipe 'B' class heavy duty dia 50 mm for L.T. Cable					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Metre	150.00	435.58	65337.00
2	2	erection Portion without Power Block	Metre	150.00	250.90	37635.00
<b>Total</b>					<b>102972.00</b>	
<b>Item- 10</b>	Supply and erection of cable route marker					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Numbers	60.00	255.14	15308.40
2	2	Erection Portion without Power Block	Numbers	60.00	84.57	5074.20
<b>Total</b>					<b>20382.60</b>	
<b>Item- 13</b>	Supply and erection of Hume pipe 150 -450 mm dia with RCC color					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	supply Portion	Metre	250.00	480.68	120170.00
2	2	Erection Portion without power Block	Metre	250.00	54.98	13745.00
<b>Total</b>					<b>133915.00</b>	
<b>Item- 14</b>	Supply and erection of 9 ton insulator with Arcing horn arrangement					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply portion	Numbers	4.00	8191.21	32764.84
2	2	Erection Portion without Power Block	Numbers	4.00	961.35	3845.40
<b>Total</b>					<b>36610.24</b>	
<b>Item- 15</b>	Supply and erection of copper strip for LV terminal earthing size 25 mmx3 mm					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Kg	16.00	1277.10	20433.60
2	2	Erection Portion without Power Block	Kg	16.00	43.70	699.20
<b>Total</b>					<b>21132.80</b>	
<b>Item- 16</b>	Supply ,connecting ,commissioning of cable termination along with lugs,clamps fixtures,glands etc for 1100 V grade cable (Each set contains piece for both the ends of cable ) 2 core 150 sq.mm.					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Numbers	60.00	186.40	11184.00
2	2	Erection Portion without Power Block	Numbers	60.00	18.64	1118.40
<b>Total</b>					<b>12302.40</b>	
<b>Item- 21</b>	Supply & erection of Copper cable 40 sq mm					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Metre	60.00	545.55	32733.00
2	2	Erection Portion without Power Block	Metre	60.00	54.56	3273.60
<b>Total</b>					<b>36006.60</b>	
<b>Item- 24</b>	Supply and erection of Retroreflective Number plate with complete fittings					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Numbers	4.00	1126.49	4505.96
2	2	Erection Portion without Power Block	Numbers	4.00	112.10	448.40
<b>Total</b>					<b>4954.36</b>	
<b>Item- 25</b>	Supply and erection of Structure Bond (from ATto earth pit, duplicate earthing, and mast to rail & earth pit to rail)					

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supply Portion	Numbers	20.00	946.73	18934.60
2	2	Erection Portion without Power Block	Numbers	20.00	207.20	4144.00
					<b>Total</b>	<b>23078.60</b>
<b>Item- 29</b>	Supply and erection of earth electrode, Earth pit, Earth pit cover as Earthing as per drawing no. ETI/OHE/P/7020-Conventional earthing					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supply Portion	Numbers	8.00	8454.75	67638.00
2	2	Erection Portion without Power Block	Numbers	8.00	5636.89	45095.12
					<b>Total</b>	<b>112733.12</b>
<b>Item- 31</b>	Supply and erection of caution board and danger board					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supply Portion	Numbers	8.00	571.13	4569.04
2	2	Erection Portion without Power Block	Numbers	8.00	63.39	507.12
					<b>Total</b>	<b>5076.16</b>
<b>Item- 33</b>	COPPER TUBULAR TERMINAL LUG HEAVY DUTY LONG BARREL, TIN PLATED FOR SIZE 150 SQMM					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supply Portion	Numbers	40.00	397.66	15906.40
2	2	Erection Portion without Power Block	Numbers	40.00	11.58	463.20
					<b>Total</b>	<b>16369.60</b>
<b>Schedule</b>	Schedule G-Electrical(General)					
<b>Item- 1</b>	LT power panel outdoor type fabricated approx size 1.25x1.25x0.4 mtrs made out of 2 mm MSsheetpowder coated paint having copper busbar of size 50x6x suitable length .The incoming shall aving2x250 A MCCB 4 pole 25 KA and outgoing with 2x200 A MCCB 4 pole plus2x100 A 4 pole MCCB & 2x63A MCCB .The panel shall have one multifunctional meter.All MCCB will be 4 pole make Legrand, ABBL&T or equivalent.The panel shall have channels at the baseof suitable size.The erection is to be done on suitable foundation of cement concrete mixtures. (Dismantling of existing panel, structre,disconnection , reconnection of cable and released material transported to nearest depot by contractor)Design of panel will be approved by competent authority before supply,2 mm MS sheet duly painted with powder coated , IP-65, IK-09 having suitable copper bus bars with sleeves , indicating lamps, multifunction meter , Gland ,Lugs, Foundation , earthing , Door Lock arrangement, padlock,suitable MS channel, SWG wire etc.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supply Portion	Numbers	2.00	120220.17	240440.34
2	2	Erection Portion	Numbers	2.00	12022.02	24044.04
					<b>Total</b>	<b>264484.38</b>
<b>Item- 2</b>	Supply erection and commissioning SDB for Power. TPN DB 4 way (8+12) IP-43, IK-08 with metal door, with 63A TPN incomer and outgoing having 5x 32A SP MCB and 5 x 20/16A SP MCB. Make- ABB, Legrand, L&T, Hager, schneider, or similar make.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supply Portion	Numbers	6.00	5846.58	35079.48
2	2	Erection Portion	Numbers	6.00	1314.46	7886.76
					<b>Total</b>	<b>42966.24</b>
<b>Item- 3</b>	Supply erection and commissioning of SDB for light and fan. TPN DB 4 way (8+12) IP-43 , IK08 with metal door,earthing, isolated neutral bar with ELCB, RCCB , 32A TPN incomer and outgoing having 5 x 10A SP MCB and 5 x6A SP MCB make- L&T, Legrand, ABB or equivalent.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supply Portion	Numbers	6.00	4893.53	29361.18
2	2	Erection Portion	Numbers	6.00	1100.57	6603.42
					<b>Total</b>	<b>35964.60</b>
<b>Item- 4</b>	Supply & Erection of C/Fan, High energy efficient 5 star rated BLDC fan with regulator, having sweep size 1200mm, operating voltage 140-270, maximum hourly power consumption of 32W with double ball bearing and Airflow minimum CMM220, suitable down rod , Metal fan hook, flexible Pipe, with all necessary arrangement make- Atomberg, Havells, CG or equivalent,Sample will be approved competent authority before supply					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supply Portion	Numbers	24.00	3398.05	81553.20
2	2	Erection Portion	Numbers	24.00	113.00	2712.00
					<b>Total</b>	<b>84265.20</b>

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

<b>Item- 5</b>	Supply Exhaust Fan 380 mm Metal Number of pole (in Nos.) 6 Number of blades 3 , Power factor 0.9 ,and Erection of E/Fan 380mm sweep including Nut ,bolts, fastner etc. Make- Usha, Anchor, Bajaj or equivalent Sample will be approved competent authority before supply.					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Numbers	5.00	2522.62	12613.10
2	2	Erection Portion	Numbers	5.00	109.12	545.60
					<b>Total</b>	<b>13158.70</b>
<b>Item- 6</b>	Point Wiring : This includes provision of wiring with 1.5 sq mm copper stranded PVC insulated wire [ L & N and earth ]from MDB/SDB/ Board to light & fan control board and provision of control switch on common light and fan control board , together with wiring from control board to ceiling rose and provision of ceiling rose on board ; with earth continuity wire; independent for each fitting. Cost of this item is inclusive of distributed cost of common board & wiring from MDB/SDB/Board to common board in addition to items specifically mentioned, Switch ,socket modular plate, fan box approved by consignee/ supervisor assigned by Sr.DEE(G)/JBP.					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Numbers	210.00	298.34	62651.40
2	2	Erection Portion	Numbers	210.00	33.90	7119.00
					<b>Total</b>	<b>69770.40</b>
<b>Item- 7</b>	Supply, erection, testing and commissioning of Sub Main with 2 x2.5 sqmm FRLS copper wire inside PVC Casing caping/ concealed with running earth etc complete. (1 m length of submain consists one cktmtr including all accessories & 2 wire of 2.5 sqmm with one wire of 1.5 sqmm for earth conn).					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Metre	1500.00	39.37	59055.00
2	2	Erection Portion	Metre	1500.00	3.83	5745.00
					<b>Total</b>	<b>64800.00</b>
<b>Item- 8</b>	Supply, erection, testing and commissioning of Sub Main with 2 x4 sqmm FRLS copper wire inside PVC Casing caping / concealed with running earth etc complete. (1 m length of submain consists one cktmtr including all accessories & 2 wire of 4 sq mm with one wire of 1.5 sq mm for earth conn)					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Metre	1500.00	56.13	84195.00
2	2	Erection Portion	Numbers	1500.00	4.76	7140.00
					<b>Total</b>	<b>91335.00</b>
<b>Item- 9</b>	Supply, erection, testing and commissioning of Sub Main with 2 x6 sqmm FRLS copper wire inside PVC Casing caping / concealed with running earth etc complete. (1 m length of submain consists one cktmtr including all accessories & 2 wire of 4 sqmm with one wire of 1.5 sqmm for earth conn).					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Metre	850.00	77.07	65509.50
2	2	Erection Portion	Metre	850.00	9.06	7701.00
					<b>Total</b>	<b>73210.50</b>
<b>Item- 10</b>	Supply, Erection, testing and commissioning of AC/Geyser point wiring with metal / Modular box, MCB 20 Amake- Havells, Legrand, ABB, L&T or equivalent ample will be approved competent authority before supply.					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Numbers	20.00	1685.87	33717.40
2	2	Erection Portion	Numbers	20.00	174.43	3488.60
					<b>Total</b>	<b>37206.00</b>
<b>Item- 11</b>	PVC conduit 25 mm dia as per IS-9537 with suitable clamps fixtures, nuts & bolts etc.					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Metre	225.00	30.30	6817.50
2	2	Erection Portion	Metre	225.00	2.76	621.00
					<b>Total</b>	<b>7438.50</b>
<b>Item- 12</b>	6A 5 pin socket point on fan and light control board Wipro , Phillips, Orient, Bajaj or equivalent.Socket approved by consignee/ supervisor assigned by Sr.DEE(G)/JBP.					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Numbers	50.00	50.37	2518.50
2	2	Erection Portion	Numbers	50.00	13.57	678.50
					<b>Total</b>	<b>3197.00</b>

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

<b>Item- 13</b>	Supply erection and commissioning of 5 pin 5A on separate boards: here wires shall run separate from SDB MakeABB, Legrand, L&T or equivalent Sample will be approved competent authority before supply.					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Numbers	40.00	215.36	8614.40
2	2	erection Portion	Numbers	40.00	25.53	1021.20
					<b>Total</b>	<b>9635.60</b>
<b>Item- 14</b>	Supply erection and commissioning of 16A & 6 pin socket point on separate circuit and board. Make ABB,Legrand, L&T or equivalent Sample will be approved competent authority before supply					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Numbers	40.00	409.63	16385.20
2	2	Erection Portion	Numbers	40.00	63.28	2531.20
					<b>Total</b>	<b>18916.40</b>
<b>Item- 15</b>	Concealed metal box boards Supply, fixing of concealed metal box boards + modular sheet plate suitable for modular switches/sockets/regulator/AC point/Geyser etc. front open type (for concealed wiring). This includes masonry work happened at the time of execution of the work and its associated repairs. All material required for this job will be supplied by contractor. Four module box of Phillips, Orient, Bajaj or equivalent.					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Numbers	20.00	93.12	1862.40
2	2	Erection Portion	Numbers	20.00	10.57	211.40
					<b>Total</b>	<b>2073.80</b>
<b>Item- 16</b>	Concealed metal box boards Supply, fixing of concealed metal box boards + modular sheet plate suitable for modular switches/sockets/regulator/AC point/Geyser etc. front open type (for concealed wiring). This includes masonry work happened at the time of execution of the work and its associated repairs. All material required for this job will be supplied by contractor. Six module box of Phillips, Orient, Bajaj or equivalent.					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Numbers	20.00	149.74	2994.80
2	2	Erection Portion	Numbers	20.00	16.33	326.60
					<b>Total</b>	<b>3321.40</b>
<b>Item- 17</b>	Concealed metal box boards Supply, fixing of concealed metal box boards + modular sheet plate suitable for modular switches/sockets/regulator/AC point/Geyser etc. front open type (for concealed wiring). This includes masonry work happened at the time of execution of the work and its associated repairs. All material required for this job will be supplied by contractor. Eight module box of Phillips, Orient, Bajaj or equivalent.					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Numbers	10.00	228.46	2284.60
2	2	Erection Portion	Numbers	10.00	25.93	259.30
					<b>Total</b>	<b>2543.90</b>
<b>Item- 18</b>	Concealed metal box boards Supply, fixing of concealed metal box boards + modular sheet plate suitable for modular switches/sockets/regulator/AC point/Geyser etc. front open type (for concealed wiring). This includes masonry work happened at the time of execution of the work and its associated repairs. All material required for this job will be supplied by contractor. Twelve module box of Phillips, Orient, Bajaj or equivalent.					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	supply Portion	Numbers	22.00	286.04	6292.88
2	2	Erection Portion	Numbers	22.00	32.63	717.86
					<b>Total</b>	<b>7010.74</b>
<b>Item- 19</b>	Cutting of wall for insertion of 1" dia PVC conduit, fixing hardwares for fixing the conduit along with its supply and then replaster it with cement and sand mixture and then painting with matching colour as per existing colour of the wall. Proper joints in pipes, bends/elbows/ junctions are to be provided as per site requirement.					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Metre	185.00	106.55	19711.75
2	2	Erection Portion	Metre	185.00	24.96	4617.60
					<b>Total</b>	<b>24329.35</b>
<b>Item- 20</b>	Supply and laying/connecting of 8/10/12 SWG GI wire as per requirement at site. This is to be connected with the earth pit to the installation					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Kg	35.00	33.60	1176.00

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

2	2	Erection Portion	Kg	35.00	2.81	98.35
					<b>Total</b>	<b>1274.35</b>
<b>Item- 22</b>	Supply, fixing, testing and commissioning of 1.5 Ton 5 Star rating Split AC, single Phase, dust filter, make Mitsubishi Heavy, OGernal,daikin, Samsung or equivalent with suitable size of stand. Metallic cage, copper tube as per site requirement, and all other accessories required for installation.					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Numbers	8.00	48991.63	391933.04
2	2	Erection Portion	Numbers	8.00	2449.59	19596.72
					<b>Total</b>	<b>411529.76</b>
<b>Item- 23</b>	Supply and Erection of 4 Ton tower AC make- O Gernal, DAIKIN, Mitsubishi, or equivalent.					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Numbers	10.00	115468.50	1154685.00
2	2	Erection Portion	Numbers	10.00	5773.43	57734.30
					<b>Total</b>	<b>1212419.30</b>
<b>Item- 24</b>	Supply and erection of outdoor control box of IP54 degree of protection,Switch On-Off street lights on time scheduling basis by incorporating an analog/digital time switch and contactor, 32A 230 V 3P Timelite Distribution Boards-Analog Time Switch,IS/IEC 13947-27 Make- Havells, ABB, L&T , or equivalent.					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Numbers	6.00	14937.06	89622.36
2	2	Erection Portion	Numbers	6.00	1493.60	8961.60
					<b>Total</b>	<b>98583.96</b>
<b>Item- 25</b>	Pipe earthing as per IS 3043.					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	supply Portion	Numbers	12.00	1937.57	23250.84
2	2	Erection Portion	Numbers	12.00	590.46	7085.52
					<b>Total</b>	<b>30336.36</b>
<b>Item- 29</b>	Cable route marker; Supply & providing cable route markers marked with L.T./H.T. cable as required as per relevant IS & at every turning points/road crossings and at 20mtrs distance.					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Numbers	20.00	50.33	1006.60
2	2	Erection Portion	Numbers	20.00	11.28	225.60
					<b>Total</b>	<b>1232.20</b>
<b>Item- 30</b>	Supply & laying of HDPE pipe 2" dia in track/road crossing with required accessories					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Metre	250.00	148.37	37092.50
2	2	Erection Portion	Metre	250.00	42.77	10692.50
					<b>Total</b>	<b>47785.00</b>
<b>Item- 31</b>	Provision & laying of HDPE pipe 4" dia in tack crossing including jointing etc. with required accessories etc.					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Metre	250.00	562.84	140710.00
2	2	Erection Portion	Metre	250.00	55.79	13947.50
					<b>Total</b>	<b>154657.50</b>
<b>Item- 32</b>	Supply and erection of 50 mm dia GI pipe B class.					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Metre	20.00	166.18	3323.60
2	2	Erection Portion	Metre	20.00	32.83	656.60
					<b>Total</b>	<b>3980.20</b>
<b>Item- 33</b>	Supply & fixing of GI pipe of B class for cable support -100 mm dia.					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Metre	20.00	840.41	16808.20
2	2	Erection Portion	Metre	20.00	84.78	1695.60
					<b>Total</b>	<b>18503.80</b>
<b>Item- 34</b>	Supply & erection of 8 SWG GI wire					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Kg	1.00	42.98	42.98

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

2	2	Erection Portion	Kg	1.00	10.65	10.65
					<b>Total</b>	<b>53.63</b>
<b>Item- 35</b>	Supply & erection of GI earth strip 30/25 x 5 mm					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Kg	1.00	51.28	51.28
2	2	Erection Portion	Per Visual Display Unit (VDU)	1.00	12.82	12.82
					<b>Total</b>	<b>64.10</b>
<b>Item- 41</b>	Supply & erection OF 4MTRS OCTAGONAL POLE along with base plate, excavation of earth , nut bolts etc and foundation along with arm for holding fitting Sample will be approved by competent authority before supply.					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Numbers	20.00	10484.06	209681.20
2	2	Erection Portion	Numbers	20.00	3043.31	60866.20
					<b>Total</b>	<b>270547.40</b>
<b>Item- 46</b>	Supply, erection, testing & commissioning of 36 W LED street light fittings suitable for 230V AC, 50 Hz comprise a single piece deep drawn aluminium housing IP-65 colour temp 5500-7000K with connection etc. with suitable fixtures and clamps etc Make- Bajaj, Surya, Havells, crompton or Similar make.					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Numbers	30.00	1555.90	46677.00
2	2	Erection Portion	Numbers	30.00	320.01	9600.30
					<b>Total</b>	<b>56277.30</b>
<b>Item- 47</b>	Supply and Erection of 1 x 18/20W LED fittings 4 feet length. The fittings shall have to be erected by the contractor with all fixing accessories/MS clamps, nuts bolts etc. as per requirement at site.					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply Portion	Numbers	65.00	182.90	11888.50
2	2	Supply Portion	Numbers	65.00	59.77	3885.05
					<b>Total</b>	<b>15773.55</b>
<b>Schedule</b>	Schedule H1-Provision of KTE END CABIN Building under ADEN KTE Sub Division					
<b>Item- 1</b>	DSR item					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
	2.0	<b>EARTH WORK</b>				
	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earthlead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.				
1	2.6.1	All kinds of soil	cum	150	205.45	30817.5
2	2.25A	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.	cum	300	368.65	110595
3	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	100	2161.2	216120
	4.0	<b>CONCRETE WORK</b>				
	4.1S	<b>CEMENT CONCRETE (CAST IN SITU)</b>				
	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

4	4.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	75	7365.15	552386.25
5	4.1.5	1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	60	6833.4	410004
	4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :				
6	4.3.1	Foundations, footings, bases for columns	Sqm	90	307.95	27715.5
	5.0	REINFORCED CEMENT CONCRETE				
	5.1S	CAST IN SITU				
	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
7	5.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	65	7945.65	516467.25
	5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :				
8	5.2.2	1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	60	10185.05	611103
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
9	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	150	307.95	46192.5
10	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	200	766.55	153310
11	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	250	608.35	152087.5
12	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	275	804.25	221168.75
	5.12S	PRE-CAST RCC				
13	5.12	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like, including the cost of required centering, shuttering but , excluding cost of reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	3	9673.5	29020.5
	5.22S	STEEL REINFORCEMENT				
	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
14	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	15000	89.65	1344750

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

	5.33S	DESIGN MIX CONCRETE				
	5.33	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 1.10 times of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.				
	5.33.1	All works upto plinth level				
15	5.33.1.3	Concrete of M35 grade with minimum cement content of 370 kg /cum	cum	65	8966.95	582851.75
	5.33.2	All works above plinth level upto floor V level				
16	5.33.2.3	Concrete of M35 grade with minimum cement content of 370 kg /cum	cum	90	10589.35	953041.5
	6.0	MASONRY WORK				
	6.26S	EXPOSED BRICK WALL				
	6.34	Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in :				
17	6.34.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	210	7873.2	1653372
	9.0	WOOD AND P.V.C. WORK				
	9.16	Providing and fixing 25 mm thick shutters for cup board etc. :				
	9.20	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
18	9.20.2	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	12	2818.5	33822
	9.40S	MISCELLANEOUS-WOOD WORK				
	9.51	Providing and fixing fly proof galvanized M.S. wire gauge to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm all complete.				
19	9.51.1	With 2nd class teak wood beading 62X19 mm	Sqm	25	1164.9	29122.5
	9.95S	ANODISED ALUMINIUM FITTINGS (ALL FITTINGS SHALL BE ISI MARKED)				

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

	9.96	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete :				
20	9.96.1	300x16 mm	Each	12	260.3	3123.6
	9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868 ) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
21	9.97.2	250x10 mm	Each	6	104.4	626.4
	9.105S	GYPSUM BOARD PARTITIONS				
	9.118	Providing and fixing to existing door frames.				
22	9.118.1	24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (+/- 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (+/- 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (+/- 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (+/- 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).	Sqm	3	1790.65	5371.95
23	9.119	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer- in-Charge.	Metre	6	408.25	2449.5
	10.0	STEEL WORK				
24	10.3	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	Sqm	3.5	9397.35	32890.73

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

	10.16	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.				
25	10.16.1	Hot finished welded type tubes	Kg	2200	154.9	340780
	10.25	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
26	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	Kg	2500	142.3	355750
	10.30	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with :				
27	10.30.1	4.0 mm thick glass panes (weight not less than 10 kg/sqm)	Sqm	15	940.3	14104.5
	11.0	<b>FLOORING</b>				
	11.21	Providing and fixing 10 mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding, and joints filled with acid and/or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in- Charge.				
	11.21.1	In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)				
28	11.21.1.1	Acid and alkali resistant tile	Sqm	45	1515.45	68195.25
	11.37S	<b>CERAMIC GLAZED TILES</b>				
29	11.37	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	Sqm	30	935.6	28068
	11.41S	<b>VITRIFIED FLOOR TILES</b>				
	11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.				
30	11.41.2	Size of Tile 600x600 mm	Sqm	250	1416.65	354162.5
	12.0	<b>ROOFING</b>				
	12.40	Providing, fixing and embedding sand cast iron accessories for rain water pipes in the masonry surrounded with 12 mm thick cement mortar of the same mix, as that of masonry (lead caulking will be paid for separately):				

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

	12.41	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.				
31	12.41.2	110 mm diameter	Metre	80	319.75	25580
	12.42	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.				
	12.42.5	Bend 87.5 degrees				
32	12.42.5.2	110 mm bend	Each	10	132	1320
33	12.50	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	Sqm	50	671.55	33577.5
	13.0	FINISHING				
	13.1S	CEMENT PLASTER (IN FINE SAND)				
	13.1	12 mm cement plaster of mix :				
34	13.1.1	1:4 (1 cement: 4 fine sand)	Sqm	1150	294.85	339077.5
	13.16S	6MM CEMENT PLASTER				
	13.16	6 mm cement plaster of mix :				
35	13.16.1	1:3 (1 cement : 3 fine sand)	Sqm	250	253.05	63262.5
	13.25	Extra for plastering:				
36	13.26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	1400	214.3	300020
	13.44S	EXTERIOR FINISHING				
	13.47	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:				
37	13.47.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	Sqm	1400	162.35	227290
	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
38	13.61.1	Two or more coats on new work	Sqm	105	131.45	13802.25
	15.0	DISMANTLING AND DEMOLISHING				
	15.2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.				

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

39	15.2.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	cum	15	2007.1	30106.5
	16.0	ROAD WORK				
	16.1S	ROADS				
	16.3	Supplying and stacking at site.				
40	16.3.3	53 mm to 22.4 mm size stone aggregate	cum	40	1837.25	73490
41	16.3.10	Moorum	cum	100	888.3	88830
42	16.4	Laying, spreading and compacting stone aggregate of specified sizes to WBM specifications in uniform thickness, hand picking, rolling with 3 wheeled road/vibratory roller 8-10 tonne capacity in stages to proper grade and camber, applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate, watering and compacting to the required density .	cum	140	865.8	121212
	17.0	SANITARY INSTALLATIONS				
	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:				
43	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	1	5781.35	5781.35
44	17.7B	Providing and fixing wash basin with C.I. brackets, 15 mm PTMT pillar cock, 32 mm PTMT waste coupling of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required. White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm PTMT pillar cock.	Each	1	1404	1404
	18.0	WATER SUPPLY				
	18.4S	PP-R PIPES				
	18.4	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS 15801, UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes testing of joints complete as per direction of Engineer-in-Charge. -Internal Exposed on walls				
45	18.4.2	PN - 16 Pipe, 25mm OD (SDR-7.4)	Metre	50	316.1	15805
46	18.4.5	PN - 10 Pipe, 50mm OD (SDR-11)	Metre	150	666.65	99997.5
	18.7S	C.P.V.C. PIPES				
	18.10	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.-Internal work - Exposed on wall				
47	18.10.1	15 mm dia nominal bore	Metre	10	304.15	3041.5
48	18.10.3	25 mm dia nominal bore	Metre	15	491.2	7368
	18.15S	BRASS FITTINGS				
	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
49	18.17.1	25 mm nominal bore	Each	2	532.35	1064.7

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

	18.31S	C.I. SLUICE VALVES/ FIRE HYDRANTS & FIXTURES				
50	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	Litre	1000	9.7	9700
	18.54S	PTMT FITTINGS				
	18.54	Providing and fixing PTMT bib cock of approved quality and colour.				
51	18.54.1	15mm nominal bore, 86 mm long, weighing not less than 88 gms	Each	3	109.85	329.55
	18.55	Providing and fixing PTMT stop cock of approved quality and colour.				
52	18.55.1	15 mm nominal bore, 86 mm long, weighing not less than 88 gms	Each	3	103.15	309.45
	19.0	DRAINAGE				
	19.1S	STONE WARE PIPES AND FITTINGS				
	19.1	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :				
53	19.1.2	150 mm diameter	Metre	50	591.4	29570
	21.0	ALUMINIUM WORK				
	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
	21.1.1	For fixed portion				
54	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	150	466.3	69945
	21.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				
55	21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	80	564.8	45184
	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
56	21.3.1	With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	Sqm	25	1019.8	25495

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

	23.0	RAIN WATER HARVESTING & TUBEWELLS				
	23.1	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge, upto 90 metre depth below ground level.				
	23.1.1	All types of soil				
57	23.1.1.1	300 mm dia	Metre	40	592.05	23682
	23.2	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, beyond 90 metre & upto 150 metre depth below ground level.				
	23.3	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.				
58	23.3.2	150 mm nominal size dia	Metre	40	668.5	26740
59	23.5	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	cum	10	1302.3	13023
60	23.6	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	cum	15	1309	19635
					<b>Total</b>	<b>10595113.23</b>
<b>Schedule</b>	Schedule H2-Provision of Central CABIN(VDU) Building under ADEN KTE Sub Division					
<b>Item- 1</b>	DSR item					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
	2.0	EARTH WORK				
	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.				
1	2.6.1	All kinds of soil	cum	150	205.45	30817.5
2	2.25A	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.	cum	300	368.65	110595
3	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	100	2161.2	216120

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

	4.0	CONCRETE WORK				
	4.1S	CEMENT CONCRETE (CAST IN SITU)				
	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
4	4.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	75	7365.15	552386.25
5	4.1.5	1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	60	6833.4	410004
	4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :				
6	4.3.1	Foundations, footings, bases for columns	Sqm	90	307.95	27715.5
	5.0	REINFORCED CEMENT CONCRETE				
	5.1S	CAST IN SITU				
	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
7	5.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	70	7945.65	556195.5
	5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :				
8	5.2.2	1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	60	10185.05	611103
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
9	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	150	307.95	46192.5
10	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	500	766.55	383275
11	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	450	608.35	273757.5
12	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	450	804.25	361912.5
	5.12S	PRE-CAST RCC				
13	5.12	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like, including the cost of required centering, shuttering but , excluding cost of reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	6	9673.5	58041

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

	5.22S	STEEL REINFORCEMENT				
	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
14	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	35000	89.65	3137750
	5.33S	DESIGN MIX CONCRETE				
	5.33	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland / Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 1.10 times of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.				
	5.33.1	All works upto plinth level				
15	5.33.1.3	Concrete of M35 grade with minimum cement content of 370 kg /cum	cum	90	8966.95	807025.5
	5.33.2	All works above plinth level upto floor V level				
16	5.33.2.3	Concrete of M35 grade with minimum cement content of 370 kg /cum	cum	210	10589.35	2223763.5
	6.0	MASONRY WORK				
	6.26S	EXPOSED BRICK WALL				
	6.34	Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in :				
17	6.34.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	400	7873.2	3149280
	9.0	WOOD AND P.V.C. WORK				
	9.16	Providing and fixing 25 mm thick shutters for cup board etc. :				
	9.20	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
18	9.20.2	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	24	2818.5	67644
	9.40S	MISCELLANEOUS-WOOD WORK				

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

	9.51	Providing and fixing fly proof galvanized M.S. wire gauge to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm all complete.				
19	9.51.1	With 2nd class teak wood beading 62X19 mm	Sqm	40	1164.9	46596
	9.95S	ANODISED ALUMINIUM FITTINGS (ALL FITTINGS SHALL BE ISI MARKED)				
	9.96	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete :				
20	9.96.1	300X16 mm	Each	18	260.3	4685.4
	9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868 ) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
21	9.97.2	250X10 mm	Each	10	104.4	1044
	9.105S	GYPSUM BOARD PARTITIONS				
	9.118	Providing and fixing to existing door frames.				
22	9.118.1	24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (+/- 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (+/- 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (+/- 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (+/- 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).	Sqm	15	1790.65	26859.75
23	9.119	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer- in-Charge.	Metre	30	408.25	12247.5
	10.0	STEEL WORK				

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

24	10.3	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	Sqm	7	9397.35	65781.45
	10.16	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.				
25	10.16.1	Hot finished welded type tubes	Kg	5000	154.9	774500
	10.25	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
26	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	Kg	5500	142.3	782650
	10.30	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with :				
27	10.30.1	4.0 mm thick glass panes (weight not less than 10 kg/sqm)	Sqm	30	940.3	28209
	11.0	<b>FLOORING</b>				
	11.21	Providing and fixing 10 mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding, and joints filled with acid and/or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in- Charge.				
	11.21.1	In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)				
28	11.21.1.1	Acid and alkali resistant tile	Sqm	60	1515.45	90927
	11.37S	<b>CERAMIC GLAZED TILES</b>				
29	11.37	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	Sqm	30	935.6	28068
	11.41S	<b>VITRIFIED FLOOR TILES</b>				
	11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.				
30	11.41.2	Size of Tile 600x600 mm	Sqm	500	1416.65	708325
	12.0	<b>ROOFING</b>				

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

	12.40	Providing, fixing and embedding sand cast iron accessories for rain water pipes in the masonry surrounded with 12 mm thick cement mortar of the same mix, as that of masonry (lead caulking will be paid for separately):				
	12.41	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.				
31	12.41.2	110 mm diameter	Metre	150	319.75	47962.5
	12.42	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.				
	12.42.5	Bend 87.5 degrees				
32	12.42.5.2	110 mm bend	Each	15	132	1980
33	12.50	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	Sqm	75	671.55	50366.25
	13.0	<b>FINISHING</b>				
	13.1S	<b>CEMENT PLASTER (IN FINE SAND)</b>				
	13.1	12 mm cement plaster of mix :				
34	13.1.1	1:4 (1 cement: 4 fine sand)	Sqm	2500	294.85	737125
	13.16S	<b>6MM CEMENT PLASTER</b>				
	13.16	6 mm cement plaster of mix :				
35	13.16.1	1:3 (1 cement : 3 fine sand)	Sqm	350	253.05	88567.5
	13.25	Extra for plastering:				
36	13.26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	3000	214.3	642900
	13.44S	<b>EXTERIOR FINISHING</b>				
	13.47	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:				
37	13.47.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	Sqm	3000	162.35	487050
	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
38	13.61.1	Two or more coats on new work	Sqm	150	131.45	19717.5

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

	15.0	DISMANTLING AND DEMOLISHING				
	15.2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.				
39	15.2.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	cum	20	2007.1	40142
	16.0	ROAD WORK				
	16.1S	ROADS				
	16.3	Supplying and stacking at site.				
40	16.3.3	53 mm to 22.4 mm size stone aggregate	cum	75	1837.25	137793.75
41	16.3.10	Moorum	cum	100	888.3	88830
42	16.4	Laying, spreading and compacting stone aggregate of specified sizes to WBM specifications in uniform thickness, hand picking, rolling with 3 wheeled road/vibratory roller 8-10 tonne capacity in stages to proper grade and camber, applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate, watering and compacting to the required density .	cum	175	865.8	151515
	17.0	SANITARY INSTALLATIONS				
	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:				
43	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	4	5781.35	23125.4
44	17.7B	Providing and fixing wash basin with C.I. brackets, 15 mm PTMT pillar cock, 32 mm PTMT waste coupling of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required. White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm PTMT pillar cock.	Each	4	1404	5616
	18.0	WATER SUPPLY				
	18.4S	PP-R PIPES				
	18.4	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS 15801, UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes testing of joints complete as per direction of Engineer-in-Charge. -Internal Exposed on walls				
45	18.4.2	PN - 16 Pipe, 25mm OD (SDR-7.4)	Metre	50	316.1	15805
46	18.4.5	PN - 10 Pipe, 50mm OD (SDR-11)	Metre	175	666.65	116663.75
	18.7S	C.P.V.C. PIPES				
	18.10	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.-Internal work - Exposed on wall				
47	18.10.1	15 mm dia nominal bore	Metre	20	304.15	6083
48	18.10.3	25 mm dia nominal bore	Metre	25	491.2	12280

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

	18.15S	BRASS FITTINGS				
	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
49	18.17.1	25 mm nominal bore	Each	4	532.35	2129.4
	18.31S	C.I. SLUICE VALVES/ FIRE HYDRANTS & FIXTURES				
50	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	Litre	2000	9.7	19400
	18.54S	PTMT FITTINGS				
	18.54	Providing and fixing PTMT bib cock of approved quality and colour.				
51	18.54.1	15mm nominal bore, 86 mm long, weighing not less than 88 gms	Each	12	109.85	1318.2
	18.55	Providing and fixing PTMT stop cock of approved quality and colour.				
52	18.55.1	15 mm nominal bore, 86 mm long, weighing not less than 88 gms	Each	12	103.15	1237.8
	19.0	DRAINAGE				
	19.1S	STONE WARE PIPES AND FITTINGS				
	19.1	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :				
53	19.1.2	150 mm diameter	Metre	120	591.4	70968
	21.0	ALUMINIUM WORK				
	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
	21.1.1	For fixed portion				
54	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	160	466.3	74608
	21.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				
55	21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	100	564.8	56480

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
56	21.3.1	With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	Sqm	30	1019.8	30594
	23.0	<b>RAIN WATER HARVESTING &amp; TUBEWELLS</b>				
	23.1	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge, upto 90 metre depth below ground level.				
	23.1.1	All types of soil				
57	23.1.1.1	300 mm dia	Metre	40	592.05	23682
	23.2	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, beyond 90 metre & upto 150 metre depth below ground level.				
	23.3	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.				
58	23.3.2	150 mm nominal size dia	Metre	40	668.5	26740
59	23.5	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	cum	10	1302.3	13023
60	23.6	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	cum	15	1309	19635
					<b>Total</b>	<b>18606809.40</b>

**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
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**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

1	The tenderer must have minimum average annual contractual turnover of 'V/N' or 'V' whichever is less; where V= Advertised value of the tender in crores of Rupees N= Number of years prescribed for completion of work for which bids have been invited. The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover. The tenderers shall submit requisite information as per Annexure- , 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)
1.1	Bid Capacity:For tenders having advertised value more than Rs 20 crore wherein eligibility criteria include bid capacity also, the tenderer will be qualified only if its available bid capacity is equal to or more than the total bid value of the present tender. The available bid capacity shall be calculated as under: Available Bid Capacity = $[A \times N \times 2] - 0.33 \times N \times B$ Where, A = Maximum value of construction works executed and payment received in any one of the previous three financial years or the current financial year (up to date of inviting tender), taking into account the completed as well as works in progress. N= Number of years prescribed for completion of work for which bids has been invited. B = Existing commitments and balance amount of ongoing works with the tenderer as per the prescribed proforma of railway for statement of all works in progress and also the works which are awarded to tenderer but yet not started up to the date of inviting of tender.	No	No	Allowed (Mandatory)
1.1.1	Note:The Tenderer(s) shall furnish the details of - (i) Maximum value of construction works executed and payment received in any one of the previous three financial years or the current financial year (up to date of inviting tender) for calculating A, and (ii) Existing commitments and balance amount of ongoing works with tenderer as per the prescribed proforma of Railway for statement of all works in progress and also the works which are awarded to tenderer but yet not started up to the date of inviting of tender for calculating B. In case of no works in hand, a 'NIL' statement should be furnished. The submitted details for (i) and (ii) above should be duly verified by Chartered Accountant.	No	No	Allowed (Mandatory)
1.1.2	In case if a bidder is JV, Clause no. 17 of GCC-2022 with their qualifying criteria will be applicable in case of Joint Venture (JV) with latest correction slips. The tenderer(s) must furnish the details of (i) Maximum value of construction works executed and payment received in any one of the previous three financial years or the current financial year (up to date of inviting tender) by each member of JV for calculating A, and (ii) Existing commitments and balance amount of ongoing works with each member of JV either in individual capacity or as a member of other JV as per the prescribed proforma of Railway for statement of all works in progress and also the works which are awarded to each member of JV either in individual capacity or as a member of other JV but yet not started up to the date of inviting of tender for calculating B. In case of no works in hand, a 'NIL' statement should be furnished. The submitted details for (i) and (ii) above should be duly verified by Chartered Accountant	No	No	Allowed (Mandatory)

**Special Technical Criteria**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
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**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

1	Technical Eligibility Criterion will be as per Clause 10 of IRGCC 2022, i.e. (a) The tenderer must have successfully completed or substantially completed any of the following 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, or (ii). Two similar works each costing not less than the amount equal to 40% of advertised value of the tender, or (iii). One similar work each costing not less than the amount equal to 60% of advertised value of the tender. (b)In case of Tenders for Composite Works (e.g. works involving more than one distinct component, such as Civil Engineering works, S&T works, Electrical works, OHE works etc. and in the case of major bridges - substructure, superstructure etc.), tenderer must have successfully completed or substantially completed any 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 each component of tender, or (ii). Two similar works each costing not less than the amount equal to 40% of advertised value of each component of tender, or (iii). One similar work each costing not less than the amount equal to 60% of advertised value of each component of tender.	No	No	Allowed (Mandatory)
1.1	In case after award of contract or during execution of work it becomes necessary for contractor to change subcontractor, the same shall be done with subcontractor(s) fulfilling the requirements as per clause 7 of Standard General Conditions of Contract, with prior approval of Chief Signal & Telecom Engineer in writing. Note for Item : Work experience certificate from private individual shall not be considered. However, in addition to work experience certificates issued by any Govt. Organization, work experience certificate issued by Public listed company having average annual turnover of Rs 500 crore and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, incorporated/registered at least 5 years prior to the date of closing of tender, shall also be considered provided the work experience certificate has been issued by a person authorized by the Public listed company to issue such certificates. In case tenderer submits work experience certificate issued by public listed company, the tenderer shall also submit along with work experience certificate, the relevant copy of work order, bill of quantities, bill wise details of payment received duly certified by Chartered Accountant, TDS certificates for all payments received and copy of final/last bill paid by company in support of above work experience certificate.	No	No	Allowed (Mandatory)
1.1.1	Similar Work Means: Any work of EI / PI / RRI / ABS/ IBH/ LC Gate interlocking work which include indoor and outdoor signaling work	No	No	Not Allowed

**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 <a href="http://www.ireps.gov.in">www.ireps.gov.in</a> . 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.

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

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	<b>Partnership firm/Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc.</b> 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. ( <a href="#">Click here</a> 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.

### Check Lst

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per Tender Document.	No	No	Not Allowed
2	Whether the prescribed cost of tender document & EMD deposited through IREPS e-payment.	No	No	Not Allowed

### Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Please enter the percentage of local content in the material being offered. Please enter 0 for fully imported items, and 100 for fully indigenous items. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in the tender conditions.	No	Yes	Allowed (Optional)
2	CONDITIONS FOR PARTICIPATION OF PROPRIETARY FIRM / PARTNERSHIP FIRM /PRIVATE LIMITED COMPANY / LIMITED COMPANY/ JV FIRMS:	No	No	Not Allowed
2.1	In case the tenderer is an individual / proprietary concern, the experience and turnover shall be in the name and style of the Individual / Proprietary concern only.	No	No	Not Allowed
2.1.1	In case the tenderer is a Partnership Firm, the experience and turnover shall be in the name and style of the firm only. The other guidelines at Clause 18 of Part I of IRSGCC 2018 shall be applicable . Note: The partner of a Partnership Firm cannot claim the credentials of Partnership firm to the extent of his share either during the subsistence of the Partnership firm or after its dissolution.	No	No	Not Allowed
2.2	IN CASE OF SINGLE PACKET TENDERS; CONSORTIUM AGREEMENTS, JOINT VENTURE FIRMS AND MOU's SHALL NOT BE CONSIDERED.	No	No	Not Allowed

### General Instructions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Tenderers are required to quote rates in the financial offer Tab provided for this purpose during submission of E-tender.	No	No	Not Allowed

### Technical-Compliances

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Electrical License Condition : The contractor will ensure to carry out electrical work either by himself if he has a valid electrical license or through any sub-contractor who has a valid electrical license. The contractor will submit a certified copy of electrical license or will submit an affidavit with tender that he will deploy electrical sub- contractor with the valid electrical license otherwise, the offer will be summarily rejected.	No	No	Allowed (Mandatory)
2	The successful bidder shall submit the undertaking from RDSO approved EI OEM before supply of material, to confirm compliance to extant RDSO guidelines and to meet contract specific requirements.	No	No	Allowed (Mandatory)

**Undertakings**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The successful bidder shall have to submit a Performance Guarantee (PG) within 21 (Twenty one) days from the date of issue of Letter of Acceptance (LOA). Extension of time for submission of PG beyond 21 (Twenty one) days and upto 60 days from the date of issue of LOA may be given by the Authority who is competent to sign the contract agreement. However, a penal interest of 12% per annum shall be charged for the delay beyond 21(Twenty one) days, i.e. from 22nd day after the date of issue of LOA. Further, if the 60th day happens to be a declared holiday in the concerned office of the Railway, submission of PG can be accepted on the next working day.	No	No	Not Allowed
1.1	I/ We have visited the works site and I / We am / are aware of the site conditions.	No	No	Not Allowed
1.2	[1]I/We have read the various conditions of the tender attached hereto and hereby agree to abide by the said conditions. I/We also agree to keep this tender open for acceptance for the period mentioned in the tender document [NIT HEADER] from the date fixed for opening the same and in default thereof, I/We will be liable for forfeiture of my/our Earnest Money Deposit submitted. [2] I/We offer to do the work at the percentage rates quoted by me/us in the attached schedule and bind myself/ourselves to complete the work within the period of completion given in this tender document[NIT HEADER] from the date of issue of letter of acceptance of this tender. I/We also hereby agree to abide by the IRS GCC and Special Conditions of contract and to carry out the works according to the IR Standard Specifications for materials and works of West Central Railway for the present contract. [3]. The full value of the earnest money paid shall stand forfeited without prejudice to any other rights or remedies of the railway if [a]I/We do not execute the contract document within seven days after receipt of notice issued by the Railway that such documents are ready; OR [b] I/We do not commence the work within fifteen days after receipt of orders to that effect. [4]. Until a formal agreement is prepared and executed, acceptance of this tender shall constitute a binding contract between us subject to modifications, as may be mutually agreed to between us and indicated in the letter of acceptance of my/our offer for this work.	No	No	Not Allowed
1.3	I/We understand that no post-tender correspondence will be entertained, however, if any clarification is required by the Railway, the same will be sought from the tenderer. Also, I/We are aware that any Certificate/ Documents offered after the tender opening shall not be given any credit and shall not be considered.	No	No	Not Allowed
1.4	I/we do hereby solemnly affirm and state on behalf of the tenderer including its constituents as under:	No	No	Not Allowed

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

**Closing Date/Time:** 10/02/2026 15:00

1.4.1	[i] I/We the tenderer(s) am/are signing this document after carefully reading the contents. [ii] I/We declare and certify that I/We have not made any misleading or false representation in the documents, forms, statements attached in proof of the qualification requirements. [iii] I/We also understand that my/our offer will be evaluated based on the documents/credentials uploaded along with the offer and the same shall be binding upon me/us. [iv] I/We declare that the information and the documents attached alongwith the tender by me/us are correct and I/We are fully responsible for the correctness of the information and the documents submitted by us.	No	No	Not Allowed
1.4.2	[i] I/We do hereby undertake that, if any of the certificates regarding eligibility criteria submitted by us are found to be forged / false / incorrect at any time during the process of evaluation of the tenders, it shall lead to forfeiture of the tender EMD; Further, I/We and all my/our constituents understand that my/our offer shall be summarily rejected. [ii] I/We also understand that, if the certificates submitted by us are found to be false/forged/incorrect at any time after the award of the contract, it will lead to termination of the contract besides suspending of business for 5 years, with the tenderer and with all the partners in case of partnership form and with all the members of a JV in case of a Joint Venture, forfeiture of EMD/SD and Performance Guarantee and any other action provided in the contract.	No	No	Not Allowed
1.5	It is certified that I/We have not been blacklisted or debarred by railways or any other ministry/department/public sector undertaking of the government of India/State Government from participation in tenders/contract on the date of opening of bids, EITHER in individual capacity or in any firm in which we are/were partners or as a member of JV firm in which I/We were/are members.I/We understand if above declaration found to be false/incorrect at any time during process of evaluation of bid or after the award of contract , will lead to determination under Clause 62 of the General Conditions of Contract.	No	No	Not Allowed
1.6	I/We indemnify and save harmless the Railway from and against all actions, suit proceedings losses, costs, damages, charges, claims and demands of every nature and description brought or recovered against the Railways by reason of any act or omission of the Contractor, his agents or employees, in the execution of the works or in his guarding of the same. All sums payable by way of compensation under any of these conditions shall be considered as reasonable compensation to be applied to the actual loss or damage sustained, and whether or not any damage shall have been sustained.	No	No	Not Allowed
1.7	I/We are aware that: Should the Railway decide to negotiate with a view to bring down the rates, the tenderer called for negotiations should furnish the following form of declaration before commencement of negotiations. I/We ----- do declare that in the event of failure of contemplated negotiations relating to Tender No. ...., Dt. - - - Item No. opened on dt:..... my original tender shall remain open for acceptance on its original terms and condition. I also declare that I am aware that during this negotiations, I cannot increase the originally quoted rates against any of the individual items and that in the event of my doing so the same would not be considered at all i.e., reduction in rates during negotiation alone would be considered and for some items if I/we increase the rates, the same would not be considered and in lieu my originally quoted rates alone would be considered and my offer would be evaluated accordingly.	No	No	Not Allowed
1.8	I have read the entire tender document including uploaded documents.	No	No	Not Allowed

**PROJECT- S AND T- JBP/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** JBP-SnT-Proj-Tender-06

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2	It is certified that I/We have not been blacklisted or debarred by railways or any other ministry/department/public sector undertaking of the government of India/State Government from participation in tenders/contract on the date of opening of bids, EITHER in individual capacity or in any firm in which we are/were partners or as a member of JV firm in which I/We were/are members. I/We understand if above declaration found to be false/incorrect at any time during process of evaluation of bid or after the award of contract , will lead to determination under Clause 62 of the General Conditions of Contract.	No	No	Not Allowed
3	I/We indemnify and save harmless the Railway from and against all actions, suit proceedings losses, costs, damages, charges, claims and demands of every nature and description brought or recovered against the Railways by reason of any act or omission of the Contractor, his agents or employees, in the execution of the works or in his guarding of the same. All sums payable by way of compensation under any of these conditions shall be considered as reasonable compensation to be applied to the actual loss or damage sustained, and whether or not any damage shall have been sustained.	No	No	Not Allowed
4	I/We are aware that: Should the Railway decide to negotiate with a view to bring down the rates, the tenderer called for negotiations should furnish the following form of declaration before commencement of negotiations. I/We ----- do declare that in the event of failure of contemplated negotiations relating to Tender No. ...., dt..... Item No. opened on dt:..... my original tender shall remain open for acceptance on its original terms and condition. I also declare that I am aware that during this negotiations, I cannot increase the originally quoted rates against any of the individual items and that in the event of my doing so the same would not be considered at all i.e., reduction in rates during negotiation alone would be considered and for some items if I/we increase the rates, the same would not be considered and in lieu my originally quoted rates alone would be considered and my offer would be evaluated accordingly.	No	No	Not Allowed
5	I have read the entire tender document including uploaded documents.	No	No	Not Allowed
6	I/we have visited the site and I am/We are aware about site condition.	No	No	Not Allowed
7	I/We have read the various conditions attached/referred to in this tender document and agree to abide by the said conditions.	No	No	Not Allowed

**6. Documents attached with tender**

S.No.	Document Name	Document Description
1	tenderdocumentKTEWork12-01-2026.pdf	TENDER DOCUMENT
2	ListofANNEXUREs_compressed_1.pdf	List of Annexures
3	DRGALL_compressed.pdf	List of Drawings
4	ImplettersandTANcompressed.pdf	Important Letters and TAN

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:** RAJSHREE DWIVEDI

**Designation :** Dy.CSTE/Project/JBP