



EAST COAST RAILWAY

Office of the
Principal Chief Signal & Telecom Engineer
Ground Floor, North Block
Rail Sadan, Bhubaneswar-17
Date: 02.04.2025

No. ECoR/S&T/BBS/SNW/ 23

CSTE/Project/BBS
CSTE/Con-I & II/BBS

Sub : Definition of Similar Nature of Work for minimum eligibility criteria of Signaling and Telecom Works.(For More than Rs.50 lakhs works)

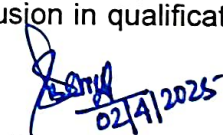
Ref : (i) Railway Board's letter No. 94/CE-I/CT/4, dt 21.06.2006
(ii) This office letter No. No. ECoR/S&T/BBS/SNM/ Pt. I/107 dated 22.04.2022
(iii) This office letter No. ECoR/S&T/ BBS/SNM/Pt. I/229 dt 26.05.2022.
(iv) This office letter No. ECoR/S&T/BBS/SNM/2116 Dt.27.10.2023
(v) This office letter No. ECoR/S&T/BBS/SNM/2781 Dt.15.04.2024.
(vi) This office letter No. ECoR/S&T/BBS/SNM/KUR/2872 Dt.03.05.2024.
(vii) This office letter No. ECoR/S&T/BBS/SNM/KAVACH/3539 Dt.04.09.2024.

Definition of Similar Nature of works for signaling and telecom works of values more than Rs.50 lakhs as approved by PCSTE is attached herewith for reference please. **This supersedes this office earlier letters on signaling and telecom works and will come into force w.e.f. 03.4.2025.**

This letter will have no bearing on the tenders approved / floated /opened before 03.04.2025.

If any work proposed to be executed does not fall in the attached approved category, specific approval of PHOD/CHOD for "Similar Nature of work" for inclusion in qualification criteria on case to case basis should be obtained.

Encl: As above in 18 pages


(S.Behera)
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For PCSTE/ECoR

Copy to : CSE, CCE , CSTE/Project-II and CSTE/Plg for kind information please.
Dy.CSTE/Con- BBS, KRPU, SBP, Dy.CSTE/P- BBS, SBP, VSKP,
Sr.DSTE/I&II - KUR, SBP & WAT for information and necessary action.
All officers of PCSTE office for information.
Sr.System Manager /IT for information and updating in ECoR Portal.


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For PCSTE/ECoR

General Items


Srl No.	Description
1	SITC i.e. Supply, installation, testing and commissioning as mentioned in this document shall mean Supply, installation, testing and commissioning either through works contract or goods contract.
2	For service contracts the corrected copy of 'General Conditions of Contract for services-January 2018' issued by Railway Board vide letter no. 2018/Tran. Cell/Mech/Service contract, dated 20.03.2018 or with latest amendments shall be followed. The definition "For similar service contracts" as necessitated by clause 2.6.1.1 of the said revised GCC for service contract; the similar nature of works approved herewith by competent authority shall be followed.
3	For AMC/ARC of Air Conditioners or any other items pertaining to Electrical and other departments need to be advised well in advance to take care of their assets
4	For any other item of work, not covered herewith, specific approval of PCSTE may be obtained on case to case basis.



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Special Conditions of Contract for Signalling Items

Srl No.	Description
1	Detail Check List issued by RDSO for installation should be strictly complied.
2	OEM certificate for the installation before commissioning shall be obtained as advised by RDSO/TAN's.
3	Training of Officers/Supervisors shall be given as per schedule.
4	All Signalling items are to be procured preferably from RDSO approved vendors. If approved vendors for the same item are not available, Developmental vendors can be considered. In absence of Approved/Developmental vendors, Materials from Other Sources can be considered with the approval from competent authority..
5	The bidder shall offer Warranty from OEM for equipment as per the condition laid in the tender document and RDSO specification for a minimum period of one year from the date of commissioning and Provide the guarantee to supply the spares as per Railway Board/RDSO guidelines
6	Tenderer should submit Certificate from Original Equipment Manufacturer for complying with all items of RDSO Pre-Commissioning Checklist for modern Signalling Systems like IPS, DAC/UAC, Data Logger, BPAC, UFSBI, AFTC, TPWS etc., before commissioning of the equipment.
7	<p>Wherever the tendered Signalling work involves installation of new EI and the tenderer is not a RDSO approved Original Equipment Manufacturer for the same, the special condition to be fulfilled are given below [Ref: Railway Board's letter No. 2013/Sig/01/(pt)Dup, dated 19.11.2020 and further revised vide letter of even no dated 17/02/2022]:</p> <p>a. Submission of undertaking by the tenderer that the equipment shall be procured from RDSO approved sources and installation, testing and commissioning of equipment shall also be got done from the same source including after sales support required during the warranty period as well as after completion of warranty period.</p> <p>b. After award of the contract, MOU with RDSO approved source covering supply, installation, testing and commissioning of equipment by the same RDSO approved source including after sales support required during the warranty period and post warranty period before signing of Contract Agreement is undertaken.</p> <p>c. In the MOU , Original Equipment manufacturer shall provide (i) an authorization which is to be submitted before signing of contract agreement or within 90 days of issue of LOA whichever is earlier failing which the LOA will be terminated and EMD submitted by the tenderer will be forfeited. (ii) Offer technical support for supply, installation and commissioning of the equipment from RDSO approved EI OEMs and to confirm compliance to meet contract specific requirement with extant RDSO guidelines, (iii) Undertake certification of Factory Acceptance Test.</p>
8	<p>Wherever the tendered Signalling work involves alteration to existing EI and the tenderer is not RDSO approved Original Equipment Manufacturer for the existing EI system, the special condition to be fulfilled is given below:</p> <p>a. Signing of the Application for Technical System approval by RDSO wherever applicable to ensure that the installation is as per the RDSO stipulations.</p>


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Srl No.	Description
8	<p>b. The successful bidder shall submit an undertaking from RDSO approved EI OEM to conform compliance with extant RDSO guidelines and to meet contract specific requirement.</p> <p>c. In the MOU, Original Equipment manufacturer shall provide (i) an authorization which is to be submitted before signing of contract agreement or within 90 days of issue of LOA whichever is earlier failing which the LOA will be terminated and EMD submitted by the tenderer will be forefeited .(ii) Offer technical support for supply, installation and commissioning of the the euipment from RDSO approved EI OEMs and to confirm compliance to meet contract specific requirement with extant RDSO guidelines, (iii) Undertake certification of Factory Acceptance Test.</p>
9	Wherever the tendered Signalling work involves MSDAC and the tenderer is not RDSO approved Original Equipment Manufacturer, then tenderer has to submit an MOU with the OEM that the supply, installation, testing and commissioning will be done by the OEM and MOU to be submitted before the signing of Contract agreement or within 90 days of issue of LOA whichever is earlier failing which the LOA will be terminated and EMD submitted by the tenderer will be forefeited.


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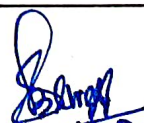
Special Conditions of Contract for Telecom Items

Srl No.	Description
1	Where ever the tendered telecom work involves OFC system, ISDN/NGN, Networking, IT and if the tenderer is not RDSO/TEC approved vendor for the same then additionally he shall have an MoU with RDSO/TEC approved vendor (OEM) for the respective items for the supply, installation, testing and commissioning of the same as covered in the tendered work. Such MoU should be signed before signing the contract agreement or within 90 days of issue of LOA whichever is earlier failing which the LOA will be terminated and EMD submitted by the tenderer will be forfeited and covering the entire period of the contract. OEM to certify that all the installation and commissioning has been done as per OEM's quality and installation standards.
2	All Telecom items are to be procured preferably from RDSO approved vendors for items with RDSO specs. If approved vendors for the same item are not available, Developmental vendors can be considered. In absence of Approved/Developmental vendors, Materials from Other Sources can be considered with the approval of competent authority. Items with FRS issued by RDSO should be procured only after acceptance of POC by the Railways.
3	Special condition for IPMPLS Work a. While bidding, the bidder should take an undertaking that they will procure item from RDSO Approved firm or OEM's. b. After award of tender, the successful bidder shall submit the MOU with the RDSO Approved source or OEM before signing of contract Agreement. c. MOU shall include after sales Support required during warranty period and beyond the warranty period upto the codal life of the item d, Certificate issued by Railway officials indicating successful completion of POC as per the latest instructions issued by Railway Board's/ RDSO OR The OEM shall demonstrate the POC within 30days from the date of intimation from railways after opening of the Tender as per latest TAN. e, A Self-Certification declaration regarding compliance of latest TAN for IP-MPLS equipment.
4	Note for IDS (Intrusion Detection System) a.OEM of OFC based intrusion detection system & system Integrator can participate. If the system Integrator is not the OEM of OFC laser based intrusion detection system, he should produce MOU with the OEM of OFC based Intrusion detection System and submit the document within 30 days after issue of LOA for technical support in installation, Testing & post commissioning., maintenance problems, failure of equipment and supply of its spares from the OEM of OFC laser based intrusion detection system including after sales support required throughout the life of the equipment.. b.If the OEM or System Integrator is a foreign OEM/System Integrator or associated with Foreign OEM or System Integrator he should comply the below para : c.While bidding is open to persons from any country, the following provisions shall apply: d.Where, on the due date of the bid, not less than 25% (Twenty Five percent) of the aggregate issued, subscribed and paid up equity share capital/capital contribution/partnership contribution in the lowest bidder or its member is held by persons resident outside India or where a bidder or its member is controlled by persons resident outside India, then the eligibility and award of the project to such lowest bidder shall be subject to the approval of competent authority from national security and public interest perspective as per the instructions of the Government of India applicable at such time. The decision of the authority in this behalf shall be final and conclusive and binding on the bidder.
5	Special Conditions for Item No. 9, 17, 18, 20,30 & 32 The tenderer shall submit an undertaking from OEM along with submission of Performance Guarantee.


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ABBREVIATIONS USED IN SIGNAL & TELECOM WORKS

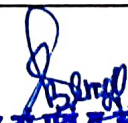
Srl No.	Abbreviations	Details
1	ABS	Automatic Block Signaling
2	BPAC	Block Proving Axle Counter
3	LVCD	Last Vehicle Check Device
4	TLBI	Token Less Block Instrument
5	SLBI	Single Line Block Instrument
6	TBI	Token Block Instrument
7	MACLS	Multiple Aspect Colour Light Signalling
8	EI	Electronic Interlocking
9	PI	Panel Interlocking
10	RRI	Route Relay Interlocking
11	DAC	Digital Axle Counter
12	UAC	Universal Axle Counter
13	IPS	Integrated Power Supply
14	UFSBI	Universal fail safe Block Instrument
15	SSDAC	Single Section Digital Axle Counter
16	HASSDAC	High Availability Single Section Digital Axle Counter
17	MSDAC	Multiple Section Digital Axle Counter
18	SSBPAC	Single Section Block Proving Axle Counter
19	SITC	Supply, Installation, Testing and Commissioning through works or goods contract.
20	OFC	Optical Fibre Cable
21	SDH	Synchronous Digital Hierarchy
22	PDMUX	Primary Digital Multiplexer
23	STM	Synchronous Transport Module
24	FCBC	Float-cum-Boost Charger
25	VRLA	Valve regulated Lead Acid
26	WLL	Wireless Local Loop
27	PRS	Passenger Reservation System
28	UTS	Unreserved Ticketing System
29	FOIS	Freight Operations Information System
30	COIS	Coach Operations Information System
31	ICMS	Integrated Coach Management System
32	CMS	Crew Management System
33	COA	Control Office Applications
34	LAN	Local Area Networking
35	WAN	Wide Area Networking
36	IT	Information Technology
37	LED	Light Emitting Diode
38	GPS	Global Positioning System
39	PC	Personal Computer
40	IVRS	Integrated Voice Response System
41	CCTV	Close Circuit Television


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Srl No.	Abbreviations	Details
42	FOB	Foot Over Bridge
43	VGF	Very High Frequency
44	RDSO	Research, Design and Standards Organisation
45	SPN	Specification
46	TEC	Telecom Engineering Committee
47	LCD	Liquid Crystal Display
48	CRT	Cathode Ray Tube
49	UPS	Un-interrupted Power Supply
50	4Q/6Q	4 Quad / 6 Quad
51	PIJF	Poly Insulated Jelly Filled
52	PVC	Poly Vinyl Chloride
53	TV	Television
54	IP	Internet Protocol
55	ISDN	Integrated Services Digital Network
56	IPIS	Integrated Passenger information System
57	NGN	Next Generation Network
58	OEM	Original Equipment Manufacturer
59	NTES	National Train Enquiry System
60	ISS	Integrated Security System
61	TCCS	Train Control Communication System
62	VOIP	Voice Over Internet Protocol
63	RDPMS	Remote Dignostics & Preventive maintenance system
64	IDS	Intrusion Detection System


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Srl No.	Nature of Work	Similar Nature of Work
10	Miscellaneous S&T works for installation / Replacement/Modification PPTC/ND Fuses/UFSBI/IPS/Diesel Generators/Battery chargers/Voltage Stabilizers / Secondary cells/Earthing.	Any Signalling Work with Indoor or/and Outdoor Work. Special Condition : If the Tenderer is not OEM of UFSBI/IPS/Battery Charger then the tenderer should have a letter of authorization from OEM before Signing of Contract Agreement or within 90 days from the date of issue of LOA whichever is earlier..
11	Miscellaneous S&T works for installation / Replacement/Modification of Track circuits/Loop line/Bridge Axle counters/MSDAC/SSDAC/HASSDAC	Any Signalling Work with Indoor or/and Outdoor Work. Special Condition : If the Tenderer is not OEM of MSDAC/HASSDAC/SSDAC then the tenderer should have a letter of authorization from OEM before Signing of Contract Agreement or within 90 days from the date of issue of LOA whichever is earlier..
12	Signalling Drawing & Design	Any Signalling Drawing & Design works OR Any Signalling Work of Signalling -Drawing & Design. It can be an independent work or part of any signalling Indoor/Outdoor Work.
13	Outdoor Signalling Works for CTR/ TRR/Point and Crossing renewal works or any Track renewal related work.	Any signalling work for provision of Indoor or/and outdoor works of S&T installation.
14	Provision of Fire alarm and suppression system at Relay room. OFC hut etc.	Any work of Automatic Fire Detection and Alarm System OR Any signalling work with provision of Automatic Fire Detection and Alarm System. Special Condition : If the tenderer is not a OEM of AFDAS System , then the tenderer should have a letter of authorization from Original Equipment Manufacturer to be produced before signing of contract or within 90 days from the date of issue of LOA whichever is earlier.
15	Annual Maintenance Contract of EI System.	Any Signalling Work for provision of Indoor Work of EI OR Annual Maintenance of EI OR Original Equipment Manufacturer for EI System. Special Condition : If the tenderer is not a manufacturer of EI, then the tenderer should have a letter of authorization from Original Equipment Manufacturer to be produced before signing of contract or within 90 days from the date of issue of LOA whichever is earlier.
16	Annual Maintenance Contract of MSDAC/HASSDAC/SSDAC.	Any Signalling Work for provision of MSDAC/HASSDAC/SSDAC OR Annual Maintenance of MSDAC/HASSDAC/SSDAC OR Original Equipment Manufacturer of MSDAC/HASSDAC/SSDAC. Special Condition : If the tenderer is not a manufacturer of MSDAC/HASSDAC/SSDAC, then the tenderer should have a letter of authorization from Original Equipment Manufacturer to undertake AMC for complete period to be produced before signing of contract agreement or within 90 days from the date of issue of LOA whichever is earlier.


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Srl No.	Nature of Work	Similar Nature of Work
17	AMC/ARC of MSDAC/HASSDAC/SSDAC cards	Any Works involving Supply, Installation, Testing & Commissioning or AMC OR ARC of MSDAC/HASSDAC/SSDAC. Special Condition : If the tenderer is not OEM of MSDAC/HASSDAC/SSDAC, then the tenderer should have a letter of authorization from OEM to undertake AMC/ARC for complete period to be produced before signing of contract agreement or within 90 days from the date of issue of LOA whichever is earlier..
18	AMC of Fire Alarms	Any Work involving Supply, Installation, Testing & Commissioning OR AMC of Fire Alarm system or any indoor and/or Outdoor EI/RRI work where Fire Alarm is apart of that work. Special Condition : Tender specific authorization from OEM to undertake AMC for complete period to be submitted by the firm before signing of Contract agreement or within 90 days from the date of issue of LOA whichever is earlier.
19	Annual Repair Contract (ARC) of Fire Alarm system,	SITC OR AMC OR ARC of Fire Alarm system or any indoor and/or Outdoor EI/RRI work where Fire Alarm is apart of that work. Special Condition : Tender specific authorization from OEM to undertake ARC for complete period to be submitted by the firm before signing of Contract agreement or within 90 days from the date of issue of LOA whichever is earlier.
20	Annual Maintenance Contract of IPS.	Any Signalling Work for provision of Indoor Work of IPS OR Annual Maintenance of IPS OR Original Equipment Manufacturer of IPS. Special Condition : If the tenderer is not OEM of IPS, then the tenderer should have a letter of authorization from Original Equipment Manufacturer to undertake AMC for complete period to be produced before signing of contract agreement or within 90 days from the date of issue of LOA whichever is earlier..
21	Annual Repair Contract (ARC) of Integrated Power Supply (IPS) system,	SITC OR AMC OR ARC of IPS system OR any signalling work with IPS. Special Condition : If the tenderer is not OEM of IPS, then the tenderer should have a letter of authorization from Original Equipment Manufacturer to undertake AMC for complete period to be produced before signing of contract agreement or within 90 days from the date of issue of LOA whichever is earlier..
22	Annual Maintenance Contract of Data logger/RTU.	Any Signalling Work for provision of Indoor Work of Data logger OR Annual Maintenance of Data logger OR Original Equipment Manufacturer of Data logger. Special Condition : If the tenderer is not OEM of Data logger, then the tenderer should have a letter of authorization/undertaking from Original Equipment Manufacturer to undertake AMC for complete period to be produced before signing of contract agreement or within 90 days from the date of issue of LOA whichever is earlier.


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Srl No.	Nature of Work	Similar Nature of Work
23	Annual Maintenance Contract (AMC) of Universal Failsafe Block Interface (UFSBI) system,	Any Signalling Work for provision of Indoor Work of UFSBI OR Any Annual Maintenance Work of UFSBI OR Original Equipment Manufacturer of UFSBI System. Special Condition : - If the tenderer is not OEM of UFSBI, then the tenderer should have a letter of authorization/undertaking from Original Equipment Manufacturer to undertake AMC for complete period to be produced before signing of contract agreement or within 90 days from the date of issue of LOA whichever is earlier.
24	Annual Repair Contract (ARC) of Universal Failsafe Block Interface (UFSBI) system,	SITC OR AMC OR ARC of UFSBI system. Special Condition : If the tenderer is not OEM of UFSBI, then the tenderer should have a letter of authorization/undertaking from Original Equipment Manufacturer to undertake ARC for complete period to be produced before signing of contract agreement or within 90 days from the date of issue of LOA whichever is earlier.
25	Maintenance of Signalling & Telecom assets (Not covered under AMC)	Any signalling work for provision of Indoor or outdoor works of S&T installation.
26	Any work for trenching, laying/jointing of Quad cable/OFC.	Any Signal or Telecom work for trenching, laying/jointing of cables.
27	Provision of Remote Dignstoics & Preventive Maintenance Systems	Any Signaling Work involving work of Remote Dignostics & preventive Maintenance system or Any Signalling work involving EI/PI/IBS/ABS/MSDAC/Data Logger Networking Special Condition : The bidder shall be an OEM or an authorized representative of an OEM and must submit the authorisation letter along with the offer.. Since no RDSO-approved firm is available in the RDSO vendor list for RDPMS , the following definition is approved for OEM: "If no RDSO-approved firm is available in the RDSO-approved list for RDPMS at the time of tender opening, the definition of OEM shall be a manufacturer who has succesfully completed installationsof RDPMS in at least 10 or more stations covering full yard with outdoor and indoor signalling gear with satisfactory performance ."
28	AMC/ARC of RDPMS System or Cards.	Any work of Supply, Installation, Testing & Commissioning OR ARC or AMC of RDPMS system or any indoor and/or Outdoor EI/RRI/PI work where RDPMS is a part of that work. Special Condition : If the tenderer is not OEM of RDPMS , then the tenderer should have a letter of authorization/undertaking from Original Equipment Manufacturer to undertake AMC for complete period to be produced before signing of contract agreement or within 90 days from the date of issue of LOA whichever is earlier.


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Srl No.	Nature of Work	Similar Nature of Work
29	Provision of Earth Leakage Detector	Any Signalling Work involving " Provision of Earth Leakage Detector" OR Any Signal Interlocking Works involving EI/RR/PI/IBS/LC Gate Interlocking/BPAC /Track Circuit in Yard/Axle Counter (MSADC/HASSDAC/SSDAC) /Automatic Block Signalling/Data Logger . Special Condition : If the tenderer is not OEM of ELD , then the tenderer should have a letter of authorization from Original Equipment Manufacturer to be produced before signing of contract agreement or within 90 days from the date of issue of LOA whichever is earlier.
30	Provision of Fuse Monitoring & Indication System with Self Restoring and auto Change Over System	Any Signalling Work involving " Provision of Fuse Monitoring & Indication System with Self Restoring and auto Change Over System" OR Any Signal Works involving EI/RR/PI/IBS/LC Gate Interlocking/Yard Modification /BPAC/ Track Circuit in Yard/DAC /Automatic Block Signalling . Special Condition : The bidder shall be RDSO approved/conditionally approved OEM or authorized by RDSO approved/conditionally approved OEM to participate in the Tender. If there is no RDSO approved/ conditionally approved firm for fuse monitoring and indication system at the time of Tender opening, then the bidder with an experience of satisfactory completion for 15 or more fuse monitoring and indication system installations in single work or part of any signalling work/works in Railways.
31	Survey, design, supply, installation, testing and commissioning of KAVACH equipment.	Supply, Installation, Testing & Commissioning of KAVACH/TCAS or RRI/PI/EI or Centralized Traffic Control System/Train Management System or Automatic Train Protection System or Automatic Block Signalling or Intermediate Block Signalling. Special Condition : "If the tenderer is not RDSO approved vendor or developmental vendor of KAVACH equipment, the tenderer shall submit an undertaking from RDSO Approved/Developmental KAVACH OEM before signing of contract agreement or within 90 days from the date of issue of LOA whichever is earlier.


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Srl No.	Nature of Work	Similar Nature of Work
B) TELECOM		
1	Any work for trenching, laying & jointing of Quad cable and control communication	Any Signal or Telecom work for trenching, laying/jointing of cables.
2	Any Telecom work for trenching, laying & jointing of OFC & control communication on OFC	Any Signal or Telecom work for trenching, laying/jointing of cables.
3	Any Telecom work for trenching, laying & termination of Telecom cables	Any Signal or Telecom work for trenching, laying/jointing of cables.
4	Supply & installation of Primary Digital Drop/Insert Multiplexers (PDMUX) and local lead / OFC with/without power plant.	Any Telecom Supply , Installation , Testing & commissioning of Indoor work of OFC involving STM/PDMUX/Drop Insert Mux/IPMPLS
5	Supply & installation of SDH, PDMUX and local lead/OFC with/without power plant.	Any Telecom Supply , Installation , Testing & commissioning of Indoor work of OFC involving STM/PDMUX/Drop Insert Mux/IPMPLS
6	Supply & installation of SDH and local lead/OFC with/without power plant	Any Telecom Supply , Installation , Testing & commissioning of Indoor work of OFC involving STM/PDMUX/Drop Insert Mux/IPMPLS
7	Supply & installation of telecom earthing along with Maintenance free VRLA/Low maintenance batteries of different capacities and /or FCBC chargers of various ratings.	Any Signal or Telecom works for supply of Power plant along with installation & commissioning.
8	Supply & installation of telecom earthing along with lightning/surge protection arrangements including x, y, z protections for various telecom installations.	Any signalling and /or telecom work for supply, installation and commissioning of earthing arrangements.
9	Any Telecom work related with Digital /IP based /WLL Electronic Exchange.	Any Telecom installation work for testing & commissioning of Digital Electronic Exchange
10	Supply & installation of equipment along with server/s for various data networks like Railnet, PRS, UTS,FOIS, COIS, ICMS, CMS, COA, CCTV, Wi-Fi, data logger etc. along with WAN and /or LAN data integration and /or networking including wiring	Any telecom or IT works involving various data networks like Railnet, PRS, UTS,FOIS, COIS, ICMS, CMS, COA, CCTV, Wi-Fi, data logger etc.
11	Supply & installation of LED based Train display system at platforms and FOBs	Any telecom installation work for provision of integrated Passenger information system as per RDSO spn. RDSO/SPN/TC/61/2007 Rev2.0 or latest <u>OR/and</u> Video conferencing/CCTV/PA systems/LED or LCD <u>OR</u> True color of Plasma displays including computer networking & software for the respective items.


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Srl No.	Nature of Work	Similar Nature of Work
12	Supply & installation of Multiline LED based Train display system at platforms and FOBs	Any telecom installation work for provision of integrated Passenger information system as per RDSO spn. RDSO/SPN/TC/61/2007 Rev2.0 or latest <u>OR/and</u> Video conferencing/CCTV/PA systems/LED or LCD <u>OR</u> True color of Plasma displays including computer networking & software for the respective items.
13	Supply & installation of LED based Coach Guidance System/ Coach Summary Board	Any telecom installation work for provision of integrated Passenger information system as per RDSO spn. RDSO/SPN/TC/61/2007 Rev2.0 or latest <u>OR/and</u> Video conferencing/CCTV/PA systems/LED or LCD <u>OR</u> True color of Plasma displays including computer networking & software for the respective items.
14	Supply & installation of LED clocks with Master / Slave arrangement and /or GPS controlled Master / Slave clocks	Any telecom installation work for provision of integrated Passenger information system as per RDSO spn. RDSO/SPN/TC/61/2007 Rev2.0 or latest <u>OR/and</u> Video conferencing/CCTV/PA systems/LED or LCD <u>OR</u> True color of Plasma displays including computer networking & software for the respective items.
15	Supply & installation of PC based Auto Announcement System	Any telecom installation work for provision of integrated Passenger information system as per RDSO spn. RDSO/SPN/TC/61/2007 Rev2.0 or latest <u>OR/and</u> Video conferencing/CCTV/PA systems/LED or LCD <u>OR</u> True color of Plasma displays including computer networking & software for the respective items.
16	Supply & installation of Microprocessor based auto announcement system	Any telecom installation work for provision of integrated Passenger information system as per RDSO spn. RDSO/SPN/TC/61/2007 Rev2.0 or latest <u>OR/and</u> Video conferencing/CCTV/PA systems/LED or LCD <u>OR</u> True color of Plasma displays including computer networking & software for the respective items.
17	Supply & installation of E-1 based IVRS and /or Analog IVRS and /or ITES and/or NTES	Any telecom installation work for provision of integrated Passenger information system as per RDSO spn. RDSO/SPN/TC/61/2007 Rev2.0 or latest <u>OR/and</u> Video conferencing/CCTV/PA systems/LED or LCD <u>OR</u> True color of Plasma displays including computer networking & software for the respective items.
18	Supply & installation of Touch Screen Enquiry system	Any telecom installation work for provision of integrated Passenger information system as per RDSO spn. RDSO/SPN/TC/61/2007 Rev2.0 or latest <u>OR/and</u> Video conferencing/CCTV/PA systems/LED or LCD <u>OR</u> True color of Plasma displays including computer networking & software for the respective items.
19	Supply & installation of Manual Announcement system	Any telecom installation work for provision of integrated Passenger information system as per RDSO spn. RDSP/SPN/TC/61/2007 Rev2.0 or latest <u>OR</u> /and Video conferencing/CCTV/PA systems/LED or LCD or True color of Plasma displays including computer networking & software for the respective items.


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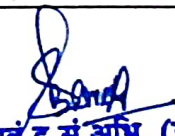
Srl No.	Nature of Work	Similar Nature of Work
20	Supply, Installation, testing and commissioning of IP based CCTV camera and accessories, or Integrated Emergency system or IP based video Surveillance system.	Supply, Installation, testing and commissioning of IP based CCTV camera and accessories, OR IP based video Surveillance system OR IP based Integrated Security system, where CCTV is a part OR any IP based Networking system such as Local Area Networking (LAN) OR IP based telephone exchange networking OR networked video conferencing system. The bidder should have successfully completed one of the above in any Govt./PSU/Smart city project.
21	Annual Maintenance Contract (AMC) for Security Control Help line No.-182 (At present -139).	Supply, installation, testing and commissioning of IP telephone exchange OR any IP based networking system or voice/data logger device. OR AMC of IP telephone exchanges. OR AMC of IP based networking equipment including PC and peripherals. OR AMC of Integrated Passenger Information System (IPIS).
22	Annual Repair Contract (ARC) of CCTV system,	SITC OR AMC OR ARC of CCTV systems OR any telecom work with CCTV.
23	Comprehensive Annual Maintenance Contract (CAMC) of 8 channel voice data recording and processing unit (VDRPU).	Comprehensive Annual Maintenance Contract (CAMC) of 8 channel voice data recording and processing unit (VDRPU) OR Any telecom installation work for provision of integrated Passenger information system (IPIS) as per RDSO spn. RDSO/SPN/TC/61/2007 Rev2.0 or latest OR/and Video conferencing/CCTV/PA systems/LED or LCD OR True colour of Plasma displays including computer networking & software for the respective items OR CAMC of integrated Passenger information system (IPIS).
24	Comprehensive Annual Maintenance Contract (CAMC) of mobile DTH system.	Supply, installation, testing and commissioning (SITC) of mobile DTH system OR Comprehensive Annual Maintenance Contract (CAMC) of mobile DTH system. Note:- Bidders other than OEM to produce MoU with OEM.
25	Supply, installation, testing and commissioning (SITC) of integrated Passenger information system (IPIS) as per RDSO spn. RDSO/SPN/TC/61/2007 Rev2.0 or latest.	Supply, installation, testing and commissioning (SITC) of integrated Passenger information system (IPIS) as per RDSO spn. RDSO/SPN/TC/61/2007 Rev2.0 or latest OR Supply & installation of LED based Train display system at platforms and FOBs OR Supply & installation of Multiline LED based Train display system at platforms and FOBs OR Supply & installation of LED based Coach Guidance System/ Coach Summary Board.


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Srl No.	Nature of Work	Similar Nature of Work
26	Comprehensive Annual Maintenance Contract (CAMC) of integrated Passenger information system (IPIS) as per RDSO spn. RDSO/SPN/TC/61/2007 Rev2.0 or latest.	Supply, installation, testing and commissioning (SITC) of integrated Passenger information system (IPIS) as per RDSO spn. RDSO/SPN/TC/61/2007 Rev2.0 or latest <u>OR</u> Comprehensive Annual Maintenance Contract (CAMC) of integrated Passenger information system (IPIS) as per RDSO spn. RDSO/SPN/TC/61/2007 Rev2.0 or latest <u>OR</u> LED based Train display system at platforms and FOBs <u>OR</u> Multiline LED based Train display system at platforms <u>OR</u> LED based Coach Guidance System/ Coach Summary Board. Note:- Bidders other than OEM to produce MoU with OEM before signing of contract agreement or within 90 days of issue of LOA whichever is earlier..
27	Arrangement of temporary telecom installations, including Passenger Amenities, UTS, CCTV, Railnet , Passenger Information system and Hiring of Audio-Video System and other related works.	Any work including UTS OR CCTV OR Railnet OR Passenger Information system OR Provision of Audio/Video system.
28	Annual Maintenance Contract of voice logger system	Any Telecom work for provision of Indoor Work of Voice Logger OR Annual Maintenance of Voice Logger OR Original Equipment Manufacturer of Voice Logger. Special condition : If the tenderer is not a manufacturer of Voice Logger, then the tenderer should have a letter of authorization from Original Equipment Manufacturer to be produced before signing of contract agreement or within 90 days of issue of LOA whichever is earlier..
29	Provision of IP MPLS Network	Any work involving provision of I. IPMPLS OR II. VOIP based Train Control Communication System OR III. FOIS OR IV. Data Connectivity OR V. Datacom Equipment OR VI. Video Conferencing including Installation & commissioning of Switches OR VII. Router at multiple locations in a single network.
30	Supply, Installation, testing and commissioning of integrated Passenger Information System (IPIS) as per RDSO Spn RDSO/SPN/TC/108/2019 Rev 0.0 or latest	Supply, Installation, testing and commissioning (SITC) of integrated passenger information system(IPIS) as per RDSO Spn RDSO/SPN/TC/108/ 2019 Rev 0.0 or latest <u>OR</u> LED based Train display system at platforms and FOBs <u>OR</u> Multiline LED based Train display system at platforms <u>OR</u> LED based Coach Guidance System/Coach Summary Board as per RDSO Spn RDSO/SPN/TC/108/ 2019 Rev 0.0 or latest.


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Srl No.	Nature of Work	Similar Nature of Work
31	Comprehensive Annual Maintenance Contract (CAMC) of integrated Passenger Information System (IPIS) as per RDSO Spn RDSO/SPN/TC/108/2019 Rev 0.0 or latest	Supply, Installation, testing and commissioning (SITC) of integrated passenger information system(IPIS) as per RDSO Spn RDSO/SPN/TC/108/ 2019 Rev 0.0 or latest <u>OR</u> Comprehensive Annual Maintenance Contract (CAMC) of integrated passenger information system (IPIS) t <u>OR</u> LED based Train display system at platforms and FOBs <u>OR</u> Multiline LED based Train display system at platforms <u>OR</u> LED based Coach Guidance System/Coach Summary Board as per RDSO Spn RDSO/SPN/TC/108/ 2019 Rev 0.0 or latest
32	Provision of VoIP/IP based exchange	Supply, Installation, testing and commissioning of VoIP based exchange OR IP based Exchange OR Digital Exchange OR WLL Exchange .
33	CAMC of VoIP based exchange	SITC OR CAMC of VoIP based exchange
34	CAMC of CCTV	SITC OR CAMC of CCTV IP BASED VIDEO SURVEILLANCE SYSTEM.
35	System Design, Supply, Installation, testing, integration and commissioning of Train Management System.	Any work of Train Management System/ Train Describer System/ Automatic Train Control system/ Communication based Train Control//Kavach/LTE/ Centralized Traffic Control System/ ETCS level-2 signalling system/ Programmable Logic Controller (PLC)/ Software developer with real time online display systems in transportation sector.
36	System Design, Supply, Installation, testing, integration and commissioning of LTE.	Any work of Train Management System/ Train Describer System/ Automatic Train Control system/ Communication based Train Control//Kavach/LTE/ Centralized Traffic Control System/ ETCS level-2 signalling system/ Programmable Logic Controller (PLC)/ Software developer with real time online display systems in transportation sector.
37	Supply, Installation , Testing & Commissioning of "Intrusion Detection System"	Execution of Distributed Optical Fibre Sensing based Rail Fracture/Intrusion Detection System OR Any Indoor and Outdoor Signalling or Telecom Work involving Supply, Installation, Testing & Commissioning. Note for the above is to read which is provided in Special condition of Telecom Work.
38	Telecom Repairing Works of Various Cards and Equipments	Any Telecom Work of Electronic Exchange/IP Exchange/Networking System/OFC System with satisfactory performance for a minimim period of Six Months
39	Provision of Tunnel Radio Communication System for Tunnels	Any Telecom Work for provision of communication through Leaky Coaxial Cable or OFC or Radio System or Any Work for Provision of Communication inside tunnels
40	Provision of Station VHF Communication Recording Facility	Any Telecom Work involving provision of Wireless/Radio based Communication or Secure communication in any Govt Organization/PSU


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Srl No.	Nature of Work	Similar Nature of Work
41	System Design, Supply, Installation, testing, integration and commissioning of Train Management System/LTE.	Any work of Train Management System/ Train Describer System/ Automatic Train Control system/ Communication based Train Control//Kavach/LTE/ Centralized Traffic Control System/ ETCS level-2 signalling system/ Programmable Logic Controller (PLC)/ Software developer with real time online display systems in transportation sector.
42	Supply, foundation, fabrication, erection and commissioning of towers and associated works required for KAVACH, LTE and other applications	Supply, foundation, fabrication, erection and commissioning of telecom/electric/spun concrete/spun electric tower or execution of bridge work consisting of construction and launching of steel girders.
43	Supply of Materials , Installation , Testing & Commissioning of Towers & OFC in connection with installation of KAVACH	Supply, foundation, fabrication, erection and commissioning of telecom/electric/spun concrete/spun electric tower or execution of bridge work consisting of construction and launching of steel girders AND Any Telecom Work related to supply and execution of Optical Fiber Cable..
44	Linking of COA with Data Logger	Any Signalling/Telecom/IT Work involving Data Logger/COA. Bidders other than OEM has to submit the MOU/Undertaking/Authorization from OEM.


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Srl No.	Nature of Work	Similar Nature of Work
C) NON CORE SIGNALLING & TELECOM WORKS		
1	Outsourcing for maintenance of Signalling gears	Maintenance of Signalling gears indoor/outdoor or both. And/OR Installation & Commissioning of Signalling work indoor/outdoor or both. And/OR Completed project management consultancy works for Signalling works in Railways/Railway PSUs". And/Or Execution of replacement of Signalling works . Note 1: Candidates provided shall be of ITI with experience /Diploma/Graduate in Engineering . Note 2: If any specialisation required may be specified by the executive for the subject work.
2	Outsourcing for maintenance of Telecom gears	Maintenance of Telecom or Signalling gears indoor/outdoor or both. And/OR Installation & Commissioning of Telecom or Signalling work indoor/outdoor or both. And/OR Completed project management consultancy works for Telecom or Signalling works in Railways/Railway PSUs". And/Or Execution of replacement of Telecom or Signalling works . Note 1: Candidates provided shall be of ITI with experience /Diploma/Graduate in Engineering . Note 2: If any specialisation required may be specified by the executive for the subject work.
3	Out-Sourcing of labour for Day to Day support in maintenance/ installation works in S&T field units.	Supply of skilled / semi-skilled /unskilled Manpower to Government Organizations or Public Sector Units/Execution of any S&T work involving Labours.
4	Digitization of drawings and documentation	Any work in connection with digitization of plan, conversion of manual drawing into CAD drawing. It can be an independent work or part of any signalling/Telecom Work.
5	Hiring of Vehicles for departmental use.	Supply of light passenger carrying motor vehicles along with driver to Government Semi Government, PSUs, Corporations. It can be an independent work or part of any Work.
6	Hiring of 3.5/4.0 ton pay load LCV Truck including Driver, Diesel Oil, Lubricants etc., for departmental use.	Supply of heavy road vehicle (more than 3.5 tonne capacity or equivalent) along with driver to government, semi government, PSUs, Corporations. It can be an independent work or part of any Work.


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