

**DYCSTE-C-RAIPUR-S AND T/SOUTH EAST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** 768-ST-CON-R

**Closing Date/Time:** 01/07/2026 15:30

**DY CSTE CON RAIPUR** acting for and on behalf of The President of India invites E-Tenders against Tender No **768-ST-CON-R** Closing Date/Time 01/07/2026 15:30 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>	Signaling and Telecommunication work for (1) New Electronic Interlocking (Centralized type) at KURKANAR and PALLI station for Jagdalpur-Rawghat new BG line along with yard remodelling at Jagdalpur station for new line connectivity of Raipur and Sambalpur Division. (2) Closure of manned LC no. AR-12 at Rajim Station and RD-22 at Kendri Station with the modification of existing EI at Rajim and Kendri station (3) New Electronic Interlocking (Centralized type) for construction of Y- Link Junction Cabin from Durg direction line to DRZ line and alteration in adjacent stations. (2) Modification of Route Relay Interlocking (RRI) at Raipur Store Depot (RSD) station for Yard remodelling in Raipur Division of South East Central Railway.		
<b>Bidding type</b>	Normal Tender		
<b>Tender Type</b>	Open	<b>Bidding System</b>	Two Packet System
<b>Tender Closing Date Time</b>	01/07/2026 15:30	<b>Date Time Of Uploading Tender</b>	09/06/2026 18:03
<b>Pre-Bid Conference Required</b>	No	<b>Pre-Bid Conference Date Time</b>	Not Applicable
<b>Advertised Value</b>	238087405.52	<b>Tendering Section</b>	DYCSTERTEN
<b>Bidding Style</b>	Single Rate for Each Schedule	<b>Bidding Unit</b>	
<b>Earnest Money (Rs.)</b>	4761800.00	<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>	17/06/2026		
<b>Are JV allowed to bid</b>	Yes	<b>Number of JV Member Allowed</b>	3
<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-Execution of Out Door Signalling work</b>							17591420.00	Above/ Below/Par
01	01	0.50	Kilometre	92115.00	46057.50	AT Par	46057.50	
	<b>Description:-</b> Excavation of trench and clearing of roots of trees, bushes, ballast and reconditioning etc., including bailing out water and disposal of extra soil. (i) all soils including soft rocky area. (a) Depth 1.2 Mtr. & width 0.3 Mtr.							
02	02	20.00	Kilometre	76590.00	1531800.00	AT Par	1531800.00	
	<b>Description:-</b> Excavation of trench and clearing of roots of trees, bushes, ballast and reconditioning etc., including bailing out water and disposal of extra soil. (i) all soils including soft rocky area. (b) Depth 1.0 Mtr. & width 0.3 Mtr.							
03	03	500.00	Metre	115.00	57500.00	AT Par	57500.00	
	<b>Description:-</b> Excavation of trench and clearing of roots of trees, bushes, ballast and reconditioning etc., including bailing out water and disposal of extra soil. (ii) Hard rocky area including concreting. (a) Chase cutting and smoothening of inside surface of sizes 0.08 m deep and 0.17 m width at platform and cemented floor area.							
04	04	37.00	Numbers	582.00	21534.00	AT Par	21534.00	
	<b>Description:-</b> Excavation of trench and clearing of roots of trees, bushes, ballast and reconditioning etc., including bailing out water and disposal of extra soil. (ii) Hard rocky area including concreting. (b) Cutting the masonry wall to the depth of 0.25m to 0.75m at the entry of room placing of flexible HDPE pipe or G.I.Pipe (including supply) of suitable size as per drawing No. RE/S&T/ALD/SK/161/81.							
05	05	261.00	Kilometre	16740.00	4369140.00	AT Par	4369140.00	
	<b>Description:-</b> Laying of Signalling Cable/Power/Quad cable / PIJF cable in the excavated trench to Drg.No:CON/SK/T/5. Transportation, supply of 'U' clamps and anchoring of cable at every 10 Mtrs with 'U' clamp to Drg.No:CSTE/C/Cable/81 including back filling with excavated earth and ramming of trenches after cable laying.							
06	06	1.00	Kilometre	25526.00	25526.00	AT Par	25526.00	
	<b>Description:-</b> Laying of Power cable in the same excavated trench to Drg.No:CON/SK/T/5. Transportation, supply of 'U' clamps and anchoring of cable at every 10 Mtrs with 'U' clamp to Drg.No:CSTE/C/Cable/81. Transportation, supply and placement of 2nd class bricks in the trench length wise between power cable & other signalling/quad cable in the same trench all along the trench(4.5 bricks approx. per Mtr.) including back filling with excavated earth and ramming of trenches after cable laying.							
	07	849.00	Metre	761.00	646089.00	AT Par	646089.00	

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07	<b>Description:-</b> Laying and Fixing of galvanised iron pipe(GI Pipe) with threaded collars (for jointing pipe) of 80 mm nominal dia Spec.No.IS-1239 medium grade, on bridges, culverts, drains including supply and transportation of GI pipes and all other materials required for fixing the pipe to Drg.No.Con/SK/T/2 and drawing of Signal/Power/Quad cables inside the pipe with masonry works over the entire length of the bridge and at entry and exit of the culvert and curing for 72 hrs, drilling of holes on the pipe at 10 cm apart to be clamped 2 Mtrs apart on culvert, for the Signalling, quad, power cable.						
08	08	380.00	Metre	775.00	294500.00	AT Par	294500.00
	<b>Description:-</b> Laying of RCC pipe including supply of required quantity at site with collars (for jointing pipe) 150mm nominal dia to Spec.No:IS-458 in excavated trench and laying of Signalling/ Power cable/PIJF cable/ Quad cables/HDPE pipe through RCC pipe. Power cable shall be laid in the same trench alongwith signalling/Quad cables but in a separate pipe RCC pipe at track/pucca road/ Platform crossing/ level crossing gate, etc.						
09	09	260.00	Metre	158.00	41080.00	AT Par	41080.00
	<b>Description:-</b> Laying of Double Walled Corrugated Pipe length 6 meter, 120mm outer dia ,103.5mm inner dia with couplers as per specification no. BSEN 50086-2-4 for under ground power/communication /signal cable protection and used for track/pucca road/ Platform crossing/ level crossing gate etc.						
10	10	900.00	Metre	254.00	228600.00	AT Par	228600.00
	<b>Description:-</b> Laying of half round RCC hume pipe with 150 mm dia & 1 mtr. Long including supply at site on single/multiple cable laid in the trench. NOTE: (1) This includes guarding of cables, relaying of cables and redoing of cable jointing in case of the thefts or otherwise at contractor's own cost for item no. 1 to 10 as mentioned above till commissioned.						
11	11	466.00	Numbers	1282.00	597412.00	AT Par	597412.00
	<b>Description:-</b> Shifting of cables in roll with or without wooden drums from other than nominated consignee depot and meggering before loading and after laying, and recording the values in cable insulation register along with representative of Railways. Here Number unit stands for Drum/Roll.						
12	12	265.00	Numbers	17067.00	4522755.00	AT Par	4522755.00
	<b>Description:-</b> The excavation of pit, casting of concrete foundation including surrounding earthwork along the foundation, erection, installation and wiring of steel apparatus case, fixing of terninals, fuse blocks, signal transformer, current transformer, filament switching unit, track battery chargers,adjustable/fixed resistances, choke coils, Fuses, Relays, E type locks , termination of cables, cable insertion, wiring to draw 110V AC therefore in the new apparatus case as required , testing, commissioning including subsequent alterations(if required), bunching of cables, earthing of cable, armours etc. Painting of the apparatus case inside and outside after clearing the surface thoroughly and first coating of anti -corrosive paint and subsequent two coatings of Alluminium paint outside and Red Oxide inside and lettering.18 mm Hylum sheet for location box self and 12 mm for cable termination in location box. (a) Steel appartus case (Large) to Drg.No. CON/SK/T/8 with 4 Nos. of foundation bolts 20mm x 460mm to Drg.No. SA-112 A/M or latest. NOTE:- Payment can be released in a partfor the above said work aftercompletion of-(i) Foundation- 30%,(ii) Errection - 15% , (iii) Wiring,testing, painting, sand filling,plastering, earthing & writings etc -45% , (iv) Commissioning - 10% of the rate.						
13	13	7.00	Numbers	8534.00	59738.00	AT Par	59738.00
	<b>Description:-</b> The excavation of pit, casting of concrete foundation including surrounding earthwork along the foundation, erection, installation and wiring of steel appartus case, fixing of terninals, fuse blocks, signal transformer, current transformer, filament switching unit, track battery chargers,adjustable/fixed resistances, choke coils, Fuses, Relays, E type locks , termination of cables, cable insertion, wiring to draw 110V AC therefore in the new apparatus case as required , testing, commissioning including subsequent alterations(if required), bunching of cables, earthing of cable, armours etc. Painting of the apparatus case inside and outside after clearing the surface thoroughly and first coating of anti -corrosive paint and subsequent two coatings of Alluminium paint outside and Red Oxide inside and lettering.18 mm Hylum sheet for location box self and 12 mm for cable termination in location box. (b) Steel appartus case (half) with 4 Nos. of SS foundation bolts 20mm x 460mm to Drg.No. SA-112 A/M or latest. NOTE:- Payment can be released in a partfor the above said work aftercompletion of-(i) Foundation- 30%,(ii) Errection - 15% , (iii) Wiring,testing, painting, sand filling,plastering, earthing & writings etc -45% , (iv) Commissioning - 10% of the rate.						
14	14	21.00	Numbers	2548.00	53508.00	AT Par	53508.00
	<b>Description:-</b> Alteration/ Modifications in the existing location boxes, fixing of equipments, cable insertion, termination, wiring, testing & commissioning, two coat painting, lettering to suit the circuits as per approved wiring diagrams. This includes filling with sand and plastering the same.						
15	15	10.00	Numbers	3580.00	35800.00	AT Par	35800.00
	<b>Description:-</b> Shifting of existing location boxes to facilitate earthwork of Engg./Con. This includes filling with sand and plastering inside location boxes.						
16	16	15.00	cum	58.00	870.00	AT Par	870.00
	<b>Description:-</b> Earthwork in raising or lowering ground level and dressing of all finished work in all type of soils as directed by the Rlys. Engr. This includes clearing of site from vegetation, trees plants etc. before dumping and spreading of earth and is inclusive of lead lift.						
17	17	32.00	cum	2943.00	94176.00	AT Par	94176.00
	<b>Description:-</b> Cement Concrete of proportion 1:3:6 with graded aggregate of size 25mm. and below.						
18	18	285.00	Each	1941.00	553185.00	AT Par	553185.00
	<b>Description:-</b> Excavation of earth pit, transportation, placing and fixing of earth electrode with construction of cement encloser to Drg.No.CON/SK/T/9 and CON/SK/T/9A and drawal of GI wire wrapped on MS strip (35x6 mm) from earth electrode to all signalling equipments, including fixing and soldering of lugs at both end of the wire.						
	19	25.00	Numbers	17378.00	434450.00	AT Par	434450.00

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19	<b>Description:-</b> Installation of signal posts for Multiple Aspect Colour Light Signals complete with signal units, bases,LED unit, fixing and wiring of current transformers of LED units, ladders & other fittings, excavation of pit, casting of cement concrete foundations with necessary water outlets, erection and fixing of complete fittings of the signal/signal post with necessary earthed screen protection arrangement, including drawing of cable through signal posts, termination of cables, wiring, testing and commissioning, two coat painting and lettering, supply and fixing of speed boards if required for the following:- NOTE:- The foundation for Multiple Aspect Colour Light Signal Post drg. No. Con/SK/T/12 and and the foundation bolts shall be of sizes 24 mm x 915 mm to Drg. No. SA- 116A/M and bolts for each foundation for above shall be of size 20 mm x 305 mm to Drg. No. SA- 110A/M ( 4 nos. for each) with two nuts and two washers each per bolt. (i) 2 ASPECT. Note:- Payment can be released in a part for the above said works after completion of- (i) Foundation- 30%, (ii) Errection - 15%, (iii) Wiring, testing, painting, sand filling, plastering, earthing & writings etc -45%, (iv) Commissioning - 10% of the rate.							
20	20	38.00	Numbers	19551.00	742938.00	AT Par	742938.00	<b>Description:-</b> Installation of signal posts for Multiple Aspect Colour Light Signals complete with signal units, bases,LED unit, fixing and wiring of current transformers of LED units, ladders & other fittings, excavation of pit, casting of cement concrete foundations with necessary water outlets, erection and fixing of complete fittings of the signal/signal post with necessary earthed screen protection arrangement, including drawing of cable through signal posts, termination of cables, wiring, testing and commissioning, two coat painting and lettering, supply and fixing of speed boards if required for the following:- NOTE:- The foundation for Multiple Aspect Colour Light Signal Post drg. No. Con/SK/T/12 and and the foundation bolts shall be of sizes 24 mm x 915 mm to Drg. No. SA- 116A/M and bolts for each foundation for above shall be of size 20 mm x 305 mm to Drg. No. SA- 110A/M ( 4 nos. for each) with two nuts and two washers each per bolt. (ii) 3 ASPECT/4 ASPECT. Note:- Payment can be released in a part for the above said works after completion of- (i) Foundation- 30%,(ii) Errection - 15% , (iii) Wiring, testing, painting, sand filling, plastering, earthing & writings etc -45% ,(iv) Commissioning - 10% of the rate.
21	21	49.00	Numbers	4629.00	226821.00	AT Par	226821.00	<b>Description:-</b> Fixing of calling-on signals/dependent shunt signals with enameled markers including drawing of cable through the signal post, termination of cables, wiring, fixing of calling- on/dependent shunt signal legend board, LED, two coat painting and lettering, testing and commissioning as required. Note:- Payment can be released in a part for the above said works after completion of- (i) Foundation- 30%,(ii) Errection - 15% ,(iii) Wiring,testing, painting,sand filling,plastering, earthing & writings etc -45% ,(iv) Commissioning - 10% of the rate.
22	22	15.00	Numbers	3856.00	57840.00	AT Par	57840.00	<b>Description:-</b> Installation, testing and commissioning of Position Light shunt signal (Independent), posts complete with lamps/LED lamps,LED units, Bases and other fittings, excavation of pit, casting of cement concrete foundation , fixing of complete fittings of signal, LED lamps, current regulator including foundation bolts, washers, nuts, termination of cables, wiring, painting and lettering as required. NOTE:- (1) The foundation for position light shunt signal Drg. No. Con/SK/T/13 and bolts for each foundation for above shall be of size 20 mm x 305 mm to Drg. No. SA-110A/M (4 nos. for each) with two nuts and two washers each per bolt. (2) Payment can be released in a part for the above said works after completion of- (i) Foundation- 30%,(ii) Errection - 15% ,(iii) Wiring,testing, painting,sand filling,plastering, earthing & writings etc -45% ,(iv) Commissioning - 10% of the rate.
23	23	23.00	Numbers	2110.00	48530.00	AT Par	48530.00	<b>Description:-</b> Fixing, cable drawing and termination, wiring, painting, lettering, testing and commissioning of Junction type Route indicator complete along with lamp/LED unit. (i) 1/2 Way
24	24	7.00	Numbers	3086.00	21602.00	AT Par	21602.00	<b>Description:-</b> Fixing, cable drawing and termination, wiring, painting, lettering, testing and commissioning of Junction type Route indicator complete along with lamp/LED unit. (i) 3/4 Way
25	25	8.00	Numbers	1274.00	10192.00	AT Par	10192.00	<b>Description:-</b> Alteration/modification, testing, commissioning, two coat painting, lettering of the existing 2 Aspect/3 Aspect/4 aspect signals/shunt signals/calling on signal to suit the circuit per approved wiring diagram including fixing of LED/Singal lamps and their wiring.
26	26	7.00	Each	5094.00	35658.00	AT Par	35658.00	<b>Description:-</b> Supply & Erection alongwith casting of foundation of Stop board /Sighting board/SLB/BSLB/legend board as per approved drawings.
27	27	127.00	Each	308.00	39116.00	AT Par	39116.00	<b>Description:-</b> Supply of retro reflective signal/shunt signal enameled number legend board of size- 300mm X 200mm X 3mm (minimum) made up of alluminium composite - 4 panel (ACP) with white back ground and alphabets/numbers in black along with fixing clamps.
28	28	127.00	Each	77.00	9779.00	AT Par	9779.00	<b>Description:-</b> Installation of retro reflective signal/shunt signal enameled number legend board.
29	29	4.00	Each	9427.00	37708.00	AT Par	37708.00	<b>Description:-</b> Excavation & casting of pedestal foundation for left/right hand boom of lifting barriers.
30	30	4.00	Each	1453.00	5812.00	AT Par	5812.00	<b>Description:-</b> Excavation & casting of foundation for stop post.
31	31	2.00	Set	17912.00	35824.00	AT Par	35824.00	<b>Description:-</b> Erection and commissioning of Lifting Barrier assembly complete including boom support, positive boom locking device, Emergency crank handle attechment, Timer unit to adjust the time for operating the barrier, Fixing of Hooters/Flashers on either side of gate barriers, 1 (one) control pannel, weather proof painting ,lettering , Neccessory M.S. weight for balancing the booms, etc.
32	32	23.00	Numbers	232.00	5336.00	AT Par	5336.00	<b>Description:-</b> Dismantling of the following:- i) Signal posts/BSLB/SLB/Stop Board.

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33	33	27.00	Numbers	232.00	6264.00	AT Par	6264.00	
	<b>Description:-</b> Dismantling of the following:- ii) Steel apparatus case with fittings.							
34	34	8.00	Numbers	360.00	2880.00	AT Par	2880.00	
	<b>Description:-</b> Dismantling of the following:- iii) Relay racks with all fittings, battery racks complete, Equipment rack complete, SMs slide.							
35	35	2.00	Numbers	4266.00	8532.00	AT Par	8532.00	
	<b>Description:-</b> The excavation of pit, casting of concrete foundation including surrounding earthwork along the foundation, erection, installation and wiring of steel apparatus case, fixing of terminals, fuse blocks, signal transformer, current transformer, filament switching unit, track battery chargers, adjustable/fixed resistances, choke coils, Fuses, Relays, E type locks, termination of cables, cable insertion, wiring to draw 110V AC therefore in the new apparatus case as required, testing, commissioning including subsequent alterations(if required), bunching of cables, earthing of cable, armours etc. Painting of the apparatus case inside and outside after clearing the surface thoroughly and first coating of anti-corrosive paint and subsequent two coatings of Alluminium paint outside and Red Oxide inside and lettering.18 mm Hylum sheet for location box self and 12 mm for cable termination in location box. (b) Steel apparatus case (half) with 4 Nos. of SS foundation bolts 20mm x 460mm to Drg.No. SA-112 A/M or latest. NOTE:- Payment can be released in a partfor the above said work aftercompletion of-(i) Foundation- 30%,(ii) Errection - 15% , (iii) Wiring,testing, painting, sand filling,plastering, earthing & writings etc -45% , (iv) Commissioning - 10% of the rate.							
36	36	5.00	Numbers	3623.00	18115.00	AT Par	18115.00	
	<b>Description:-</b> Dismantling of the following:- vi) Lifting barrier complete.							
37	37	22.00	Numbers	60.00	1320.00	AT Par	1320.00	
	<b>Description:-</b> Dismantling of the following:- vii) TLJB/Point JB							
38	38	6.00	Numbers	603.00	3618.00	AT Par	3618.00	
	<b>Description:-</b> Dismantling of the following:- viii) Electric Point Machine							
39	39	3.00	Station	2415.00	7245.00	AT Par	7245.00	
	<b>Description:-</b> Dismantling of the following:- ix) Operating cum indication Panel.							
40	40	27.00	Numbers	1087.00	29349.00	AT Par	29349.00	
	<b>Description:-</b> Dismantling of the following:- x) Location Foundation (By hydraulic breaker)							
41	41	23.00	Numbers	2174.00	50002.00	AT Par	50002.00	
	<b>Description:-</b> Dismantling of the following:- xi) Signal Foundation (upto ground level by hydraulic breaker).							
42	42	6200.00	Job	38.00	235600.00	AT Par	235600.00	
	<b>Description:-</b> Collecting, stacking with deployment of Man power, Hydra etc for Loading/ Unloading and Transportation of Materials (Fresh/Released/ Unused) from (i) work site to GSD/Raipur, (ii) work site to the store of SSE(SIG)/CON, (iii) any store depot to any other store depot over Indian railway as decided by Railway Administration by suitable Trucks and stacking properly. Here Job unit stands for Ton-Km.							
43	43	3.00	Job	30189.00	90567.00	AT Par	90567.00	
	<b>Description:-</b> Shifting of existing cables by providing location boxes and pieces of signalling cables as required in the yard to facilitate the engineering department for earth work for laying new lines. (work will be executed in presence of Railway representative). The cost towards new location foundation shall be given vide item No.12/13 when the length of trench is less than 150 meters. Here Job unit stands for Per Site							
44	44	50.00	Set	3832.00	191600.00	AT Par	191600.00	
	<b>Description:-</b> Installation, testing and commissioning of track circuits as per Drg.No:SK/DRG/OL/27 and track bonding plan including drilling of 9/32" holes on rails, provision of bonding, block joints (90R/52Kg/60 Kg) with machined fish plate or Glued Joints, fixing and painting of track lead junction boxes, fixing of 25 mm nominal dia GI pipe of required length with 9/32" holes at 10 cm. apart for protection of tail cables, insulation of lead wires from rails using heat shrinkable tape, insulation of traction bonds below rails with 3mm thick heat shrinkable tapes, fixing of lead wire suitably with sleepers. Provision of tail cable termination, fixing of double track lead wires, jumper wires, terminals, track charger, adjustable/fixed resistance, choke coil, fuses, battery, track relay etc., and also lettering/numbering of track lead junction boxes, block joints and track circuits. (a) Straight portion of track circuit.							
45	45	43.00	Set	4209.00	180987.00	AT Par	180987.00	
	<b>Description:-</b> Installation, testing and commissioning of track circuits as per Drg.No:SK/DRG/OL/27 and track bonding plan including drilling of 9/32" holes on rails, provision of bonding, block joints (90R/52Kg/60 Kg) with machined fish plate or Glued Joints, fixing and painting of track lead junction boxes, fixing of 25 mm nominal dia GI pipe of required length with 9/32" holes at 10 cm. apart for protection of tail cables, insulation of lead wires from rails using heat shrinkable tape, insulation of traction bonds below rails with 3mm thick heat shrinkable tapes, fixing of lead wire suitably with sleepers. Provision of tail cable termination, fixing of double track lead wires, jumper wires, terminals, track charger, adjustable/fixed resistance, choke coil, fuses, battery, track relay etc., and also lettering/numbering of track lead junction boxes, block joints and track circuits. (b) Point and crossing portion of track circuit.							
46	46	32.00	Each	12859.00	411488.00	AT Par	411488.00	
	<b>Description:-</b> Installation (including over hauling) of Electric point machines on MS plate fixed on wooden/PSC sleepers complete with crank handle key Interlocking arrangement as per the drawing approved by Railways, junction boxes (as suggested by the railway) with 1 ½" dia G.I. pipe/HDPE pipe of required length up to point machine, ground connections, including smithy works involved, insulation of MS plate on which the point machine is to be fixed from the gauge tie plate involving revetting/welding of angle, cleats, termination of cables, wiring, preliminary adjustment for operation of point by crank handle and subsequent final adjustment, painting and lettering as required, testing and commissioning of the same.							
	47	2.00	Set	37853.00	75706.00	AT Par	75706.00	

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47	<b>Description:-</b> Installation, testing and commissioning of sliding boom LC gates complete which includes casting of concrete foundation including surrounding earthwork along the foundation (Dia-30 cm & depth-100 cm total ten numbers per gate), fixing and welding of channel, fixing of clamps, cutting of rail post, fixing of lock post with two numbers excavation of Pit casting of concrete foundation for "B" type foundation per gate, laying of cable for road crossing and fixing of MS plate/channel also as requirement of the site condition.							
48	48	30.00	Numbers	704.00	21120.00	AT Par	21120.00	
	<b>Description:-</b> Installation and Fixing of "E" type lock along with Welding Work .							
49	49	50.00	Hour	603.00	30150.00	AT Par	30150.00	
	<b>Description:-</b> Deployment of Prokline/ Hydra operation at site for exposing the burried cables or relocation the Location Box/ Signal Post with foundation as per the advice of Railway site engineer.							
50	50	800.00	Metre	241.00	192800.00	AT Par	192800.00	
	<b>Description:-</b> Physical tracing and opening/locating of existing working cables by precession digging for diversion of cables in connection with cable clearance for engineering earth work without interfering the circuits as per the advice of Railway site engineer.							
51	51	150.00	CORE	24.00	3600.00	AT Par	3600.00	
	<b>Description:-</b> Switching/shifting of working cables conductors from the existing CTR/CRR/Location box to the new CTR/CRR/Location box with parallel patching without interfering the working signalling circuits in presence of Railway engineer at site. Here CORE unit stands for Number of Conductor.							
52	52	310.00	Numbers	415.00	128650.00	AT Par	128650.00	
	<b>Description:-</b> Fixing of concrete cable route marker at 30-40 meter and at diversion point including supply & transportation of cable route marker at site. Detail size & fixing of cable route marker should be followed as per drawing no. SDO/Cable laying/020.							
53	53	150.00	Sqm	2525.00	378750.00	AT Par	378750.00	
	<b>Description:-</b> Supply, Transportation , fabrication and fixing of Hylum sheet of 12 mm thickness as per site requirement.							
54	54	1.50	Kilometre	32603.00	48904.50	AT Par	48904.50	
	<b>Description:-</b> Laying of second class bricks including supply of required quantity at site on single/multiple cable laid in the trench (Approx. 9 bricks per mtr.).							
55	55	12.00	Set	48608.00	583296.00	AT Par	583296.00	
	<b>Description:-</b> Installation, Testing and Commissioning of Digital Axle Counter and field training (One man day per set) at site and training to the field staff at site for three days.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule () B-Supply of Ferrus Materials</b>							9257169.00	Above/ Below/Par
01	01	28.00	Numbers	32681.00	915068.00	AT Par	915068.00	
	<b>Description:-</b> Supply of 2 Aspect signal unit in FRP body without Lenses and transformer as per RDSO spec. No. RDSO/SPN/194/2006 . Inspection by RITES.							
02	02	31.00	Numbers	35227.00	1092037.00	AT Par	1092037.00	
	<b>Description:-</b> Supply of 3 Aspect signal unit in FRP body without Lenses and transformer as per RDSO spec. No. RDSO/SPN/194/2006. Inspection by RITES.							
03	03	2.00	Numbers	39820.00	79640.00	AT Par	79640.00	
	<b>Description:-</b> Supply of 4 Aspect signal unit in FRP body without Lenses and transformer as per RDSO spec. No. RDSO/SPN/194/2006. Inspection by RITES.							
04	04	15.00	Numbers	6078.00	91170.00	AT Par	91170.00	
	<b>Description:-</b> Shunt signal position light type complete with post base Drg No. SA 23840 Adv.Alt.1, S-23203 Adv., with 90 mm dia mounting socket Drg No S-23845 (Adv.). Inspection by RITES.							
05	05	20.00	Numbers	4498.00	89960.00	AT Par	89960.00	
	<b>Description:-</b> Shunt signal dependent type Drg.No.SA-23840(Adv) Alt.1 & S-23845 Adv. with off-set bracket to Drg. No. SA23080 Adv. Alt. 1 & specn. No. IRS:S-10/78 to suit 140mm. Outside dia post complete. Inspection by RITES.							
06	06	29.00	Numbers	2732.00	79228.00	AT Par	79228.00	
	<b>Description:-</b> Calling on signal (CLS Type ) Drg.No: SA-24351(Adv.), Spec.No.IRS-S-10/78, IRS :S-26/64. Inspection by RITES.							
07	07	29.00	Numbers	16567.00	480443.00	AT Par	480443.00	
	<b>Description:-</b> Route Indicator junction direction 5 lamp type with Arms and drum complete but without lens and lamps, 3 way RH/LH.Drg.No.SA23403(Adv) for 3 way. Spec.No.IRS:S-66/84 with latest amd, IRS:S- 23/88, IRS:S-10/78, IRS:S-26-64. Inspection by RITES. 3 - Way							
08	08	61.00	Numbers	2857.00	174277.00	AT Par	174277.00	
	<b>Description:-</b> Tubular post for CLS 5.5 Mtr. Spec.IRS.S-6/81. Inspection by RITES.							
09	09	61.00	Numbers	7134.00	435174.00	AT Par	435174.00	
	<b>Description:-</b> Signal. base 140mm. dia (type tube) Drg.No.S-2011/M. Inspection by RITES.							
10	10	61.00	Numbers	4082.00	249002.00	AT Par	249002.00	
	<b>Description:-</b> Ladder 5.5Mtr for CLS Drg. No. SA-23156(Adv)Alt-1. Spec. No. IRS-S-10. Inspection by RITES.							
11	11	33.00	Numbers	974.00	32142.00	AT Par	32142.00	
	<b>Description:-</b> Off set bracket for colour light 140mm. outside dia post Drg. No. SA-23080(Adv) Alt-1. IRS-S- 10-78. Inspection by RITES.							

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12	12	16.00	Numbers	321.00	5136.00	AT Par	5136.00	
	<b>Description:-</b> Marker 'P' non-illuminated Drg. SA- 23455 (Adv.) Spec.No. IRS-S-7. Inspection by Rep. of Railway Engineer.							
13	13	2.00	Numbers	321.00	642.00	AT Par	642.00	
	<b>Description:-</b> Marker 'G' non-illuminated Drg. SA- 23476 (Adv.) Spec. No. IRS-S-7. Inspection by Rep. of Railway Engineer.							
14	14	29.00	Numbers	320.00	9280.00	AT Par	9280.00	
	<b>Description:-</b> Marker 'C' non-illuminated Drg. SA- 2435 (Adv.) Spec. No. IRS-S-7. Inspection by Rep. of Railway Engineer.							
15	15	272.00	Numbers	15782.00	4292704.00	AT Par	4292704.00	
	<b>Description:-</b> Steel Apparatus Case (Large) as per Drg.No.Con/SK/1/1/86 , with E type lock having ward No.32. Inspection by RITES.							
16	16	11.00	Numbers	7757.00	85327.00	AT Par	85327.00	
	<b>Description:-</b> Supply of Steel apparatus case (Half) RE type as per Drg. No. RE/S&T/ALD/SK/220/82 Alt.A and 221/82 with Alt. B. Inspection by RITES.							
17	17	8.00	Numbers	9386.00	75088.00	AT Par	75088.00	
	<b>Description:-</b> Relay Rack for 'Q' Series Relay as per Drg. No: SK/DRG/OL/SER/192 SH 2/2. The relay racks must be powder coated of stone grey colour. Inspection by Rep. of Railway Engineer.							
18	18	12.00	Numbers	10395.00	124740.00	AT Par	124740.00	
	<b>Description:-</b> Composite Relay Rack as per drg.No.SK/DRG/OL/SER/192- SH1/2.The relay racks must be powder coated of stone grey colour. Inspection by Rep. of Railway Engineer.							
19	19	12.00	Numbers	3088.00	37056.00	AT Par	37056.00	
	<b>Description:-</b> Cable termination racks as per Drg. No:SK/DRG/OL/SER/197. The relay racks must be powder coated of stone grey colour. Inspection by Rep. of Railway Engineer.							
20	20	150.00	Metre	267.00	40050.00	AT Par	40050.00	
	<b>Description:-</b> Wiring ladder of 25x25x3mm. Aluminum angle and 20x3mm.flat, 2 Mtr. Inspection by Rep. of Railway Engineer.							
21	21	75.00	Numbers	226.00	16950.00	AT Par	16950.00	
	<b>Description:-</b> Negative Bus bar16 way 18 ". Inspection by Rep. of Railway Engineer.							
22	22	291.00	Numbers	1213.00	352983.00	AT Par	352983.00	
	<b>Description:-</b> Earth Electrodes to Drg. No: Con/SK/8/3/84. Inspection by Rep. of RITES.							
23	23	61.00	Numbers	784.00	47824.00	AT Par	47824.00	
	<b>Description:-</b> Supply of pinnacle SA-2019A for tubular signal post . Inspection by Rep. of RITES.							
24	24	22.00	Numbers	550.00	12100.00	AT Par	12100.00	
	<b>Description:-</b> Pad Locks of godrej make model Nav-tal - 6 Levers - Long Shackle (3 keys) or latest. Inspection by Rep. of Railway Engineer.							
25	25	155.00	Numbers	123.00	19065.00	AT Par	19065.00	
	<b>Description:-</b> Supply of pipe lock signal unit( Handcuff lock)(Minimum one key for each lock). Inspection by Rep. of Railway Engineer.							
26	26	180.00	Numbers	486.00	87480.00	AT Par	87480.00	
	<b>Description:-</b> Supply of following material, Inspection by Rep. of Railway Engineer. (a) 2 conductor through terminal block, 1000 Volt Ac, 125 AMP, suitable for conductor of size : 10, 16 & 25 sq mm, wago model No. 285 135 Grey colour; make wago or similar. (10 sq mm- 1000 no., 16 sqmm- 300 no., 25 sq mm-100 no.)							
27	27	80.00	Numbers	107.00	8560.00	AT Par	8560.00	
	<b>Description:-</b> Supply of following material, Inspection by Rep. of Railway Engineer. (b) Adjacent Jumper for above TB, WAGO PNo. 285.435							
28	28	110.00	Numbers	31.00	3410.00	AT Par	3410.00	
	<b>Description:-</b> Supply of following material, Inspection by Rep. of Railway Engineer. (c) Protective warning marker for above P No. 285-420							
29	29	110.00	Numbers	23.00	2530.00	AT Par	2530.00	
	<b>Description:-</b> Supply of following material, Inspection by Rep. of Railway Engineer. (d) Shock protector for above : P No. 285-421							
30	30	14.00	Numbers	4010.00	56140.00	AT Par	56140.00	
	<b>Description:-</b> Supply of following material, Inspection by Rep. of Railway Engineer. (e) WMB multi marking system for above , P No. 2009-115							
31	31	6.00	Numbers	11168.00	67008.00	AT Par	67008.00	
	<b>Description:-</b> Supply of following material, Inspection by Rep. of Railway Engineer. (f) Rail for above 35mm x 15 mm, 2.3 mm thick no. 210 -198							
32	32	4.00	Numbers	842.00	3368.00	AT Par	3368.00	
	<b>Description:-</b> Supply of following material, Inspection by Rep. of Railway Engineer. (g) Operating tools with partially insulated shaft, P No. 210-721							
33	33	2350.00	Metre	66.00	155100.00	AT Par	155100.00	
	<b>Description:-</b> PVC insulated GI flexible wire for lead wire of track circuit used in Railway signalling. Dia 6mm (19 Sqmm cross sectional area) Constrction 7x7 core WSC. Lay Right Hand ordinary. Finish Galvanised. Tensile strength 125-140kgf/sqmm. Confirming to IRS S3-61. PVC thickness 1mm. O.D. 8mm. Colour of PVC Red- 50% & Black-50%. Make:Bharat or similar. Inspection by Rep. of Railway Engineer. Note:- This item will be issued to contractor from Railway store only for picking of existing track circuits during Pre-Pre-NI & Pre-NI work.							

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34	34	4000.00	Numbers	1.00	4000.00	AT Par	4000.00	
	<b>Description:-</b> Channel pin 7 mm dia. Inspection by: Representative of Railway Engineer. Note: - This item will be issued to contractor from Railway store only for picking of existing track circuits during Pre-Pre-NI & Pre-NI work.							
35	35	2.00	Numbers	3388.00	6776.00	AT Par	6776.00	
	<b>Description:-</b> Supply of Steel Apparatus Case (quarter) as per sketch No. RE/S&T/ALD./SK/227/82 corrected upto 30686 & 228/82 corrected upto 18/1/93, with E type lock having ward No.32. The key & handle should be at the rate of one each per two junction boxes. Inspection by RITES.							
36	36	6.00	Numbers	2050.00	12300.00	AT Par	12300.00	
	<b>Description:-</b> Supply of following material, Inspection by Rep. of Railway Engineer. (a) 2 conductor through terminal block, 1000 Volt Ac, 232 AMP, suitable for conductor of size : 70 sq mm, wago model No. 285 195 Grey colour. make wago or similar.							
37	37	2.00	Numbers	542.00	1084.00	AT Par	1084.00	
	<b>Description:-</b> Supply of following material, Inspection by Rep. of Railway Engineer. (b) Adjcant Jumper for above TB, WAGO PNo. 285.450							
38	38	2.00	Numbers	36.00	72.00	AT Par	72.00	
	<b>Description:-</b> Supply of following material, Inspection by Rep. of Railway Engineer. (c ) Protective warning marker for above P No. 285-440							
39	39	2.00	Numbers	36.00	72.00	AT Par	72.00	
	<b>Description:-</b> Supply of following material, Inspection by Rep. of Railway Engineer. (d) Shock protector (finger guard) for above : P No. 285-169							
40	40	1.00	Numbers	11168.00	11168.00	AT Par	11168.00	
	<b>Description:-</b> Supply of following material, Inspection by Rep. of Railway Engineer. (e) Rail for above 35mm x 15 mm, 2.3 mm thick no. 210 -198.							
41	41	1.00	Numbers	1015.00	1015.00	AT Par	1015.00	
	<b>Description:-</b> Supply of following material, Inspection by Rep. of Railway Engineer.(f) Allen Key WRENCH with partially insulated shaft, P No. 285 -172							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule ( ) C-Telecom work Execution</b>							6567509.50	Above/ Below/Par
01	01	12.00	Route Kilo Meter (RKM)	950.00	11400.00	AT Par	11400.00	
	<b>Description:-</b> Location survey of cable route and preparation of tentative and final cable route plan as per approved format in the section including supply of final route plan after the cables are laid and commissioned indicating clearly the exact position of the cable, joints and other critical items with reference to OHE mast & other fixed point, etc. in 12( twelve) Nos.hard bound copies on white bond paper of maximum A-3 size (well documented and bound with plastic covers).							
02	02	28.00	Kilometre	93076.00	2606128.00	AT Par	2606128.00	
	<b>Description:-</b> Excavation of trenches of following depth and width at the bottom of the trench including clearing of roots bushes etc. for all types of soils including morrum, soft rock, hard soil mixed with boulders etc. This work include back filling the trench, ramming, consolidation of soil as well as disposal of extra soil after cable is placed in the trench. After mansoon the route is to be attended for back filling the rain cuts, wash out of soils where ever found. i) Depth 1.2 Mtr. & Width 0.3 Mtr.							
03	03	250.00	Metre	763.00	190750.00	AT Par	190750.00	
	<b>Description:-</b> Laying of RCC pipe including supply of required quantity at site with collars (for jointing pipe) 150mm nominal dia to Spec.No:IS-458 in excavated trench (at bridges, culverts, roads, under railway track,Platform crossing, level crossing gate etc.) and drawing of HDPE pipe/ Power cable/ Quad cables/Jelly filled cables , etc. through pipe.							
04	04	1.50	Kilometre	336450.00	504675.00	AT Par	504675.00	
	<b>Description:-</b> Excavation of trenches including clearing of roots of trees etc. in hard/rocky soil by chiseling up to a depth of minimum 0.6 Mtr. and width 0.3 Mtr. at the bottom, supply and placing RCC hume pipe section as per drawing on sieved soil of 30mm over cable / HDPE pipe and concreting through - out the length upto a layer of 75mm. Then back filling the trench and then ramming of soil .							
05	05	300.00	Metre	540.00	162000.00	AT Par	162000.00	
	<b>Description:-</b> Cutting the chase upto a depth of minimum 500 mm.and smoothening of inside surface in concrete and beds of rocks, cable laying/placing HDPE pipe & concreting upto the ground level.							
06	06	300.00	Metre	432.00	129600.00	AT Par	129600.00	
	<b>Description:-</b> Cutting of solid rocks making channels 150 mm wide at the bottom X 200 mm deep by chase cutting & concreting upto the ground level after cable laying/ placing HDPE pipe.							
07	07	52.00	Kilometre	7762.00	403624.00	AT Par	403624.00	
	<b>Description:-</b> Transportation including loading/unloading of HDPE pipe from the stores of railway to the work site, laying of the same (with 4 mm nylon rope pre-inserted inside the HDPE pipe) in excavated trench/already laid GI/RCC pipes/tubes, jointing, levelling and end sealing the pipes.							
	08	52.00	Kilometre	18672.00	970944.00	AT Par	970944.00	



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08	<b>Description:-</b> Transportation, loading/unloading of OFC from the stores of railway to the work site with care, pushing/pulling OFC through the HDPE pipes, sealing of the duct by sealling /caps plugs. The cable is to be laid by mechanised means. At inaccessible places where mechanised laying is not possible, the cable is to be laid manually by pulling through pre inserted rope. This also includes testing of cable drums in the store premises before transportation and submissions of results thereof. Empty cable drums to be returned by the contractor. The cable drums with unused cable at site to be returned by the contractor to the stores depot of SSE/Sig/Con/BSP.						
09	09	12.00	Kilometre	14419.00	173028.00	AT Par	173028.00
	<b>Description:-</b> Supply and placing of warning tape Orange colour of 100 mm wide printed in black as "CAUTION OFC CABLE" at every 1 mtr. interval (minimum) and to be laid in the trench in station area and as directed by the representative of Railway.						
10	10	530.00	Numbers	408.00	216240.00	AT Par	216240.00
	<b>Description:-</b> Fixing of concrete cable route marker at 50 meter(approx) and at diversion point including supply & transportation of cable route marker at site. Detail size & fixing of cable route marker should be followed as per drawing no. SDO/Cable laying/020. Marker should be written as "RLY TELE"(both side).						
11	11	8.00	Numbers	573.00	4584.00	AT Par	4584.00
	<b>Description:-</b> Cutting the masonry wall to the depth of 0.25m to 0.75m at the entry of room placing of flexible HDPE pipe or G.I.Pipe (including supply) of suitable size as per instructions of Railway site in charge and repairing of masonry wall and cement plastering after the cable is taken inside the flexible HDPE pipe/G.I.Pipe with clamps as per drawing No. RE/S&T/ALD/SK/161/81.						
12	12	300.00	Metre	43.00	12900.00	AT Par	12900.00
	<b>Description:-</b> Supply and fixing of PVC casing capping 25mm x 25mm size for indoor wiring. This includes drawal of wires in the casing capping and termination of wire at end point. The work should be carried out as per the instruction of Railway site Engineer.						
13	13	12.00	Numbers	21705.00	260460.00	AT Par	260460.00
	<b>Description:-</b> Transportation, installation of Optical Fibre termination box/FDMS and splicing of Optic Fibre Cable (24/48 fibre) inside the termination box/FDMS with provision of taking out fibre of OFC as required. This includes supply of installation accessories (as required) as detailed in technical specification and advised by Railway's Engineer-at-site.This also includes End to End testing of all fibres of the optical fibre cable terminated between cable hut to cable hut of each station.						
14	14	13.00	Numbers	1993.00	25909.00	AT Par	25909.00
	<b>Description:-</b> Transportation & Execution of following kinds of joints on Quad Cable using thermoshrink jointing kit. This also includes excavation of cable joint pit of size 1.2m x 1.2m x 1.0m in all types of soil for jointing of copper cables, back filling and ramming after jointing. (a) Derivation/ transformer joints with V.F. Transformers and derivation joint for L.C.Gate & Pump House on Quad/jelly filled Telecom Cable.						
15	15	30.00	Numbers	1385.00	41550.00	AT Par	41550.00
	<b>Description:-</b> Transportation & Execution of following kinds of joints on Quad Cable using thermoshrink jointing kit. This also includes excavation of cable joint pit of size 1.2m x 1.2m x 1.0m in all types of soil for jointing of copper cables, back filling and ramming after jointing. (b) straight through joint on Quad cable/10-20-50 pairs PIJF Cable.						
16	16	3.00	Numbers	49643.00	148929.00	AT Par	148929.00
	<b>Description:-</b> Supply, Installation and commissioning of Surge & Lightning protection arrangement in the cable huts for all the equipments including all the circuits derived from MUX at the stations and Ring Earth (Six Earth pits). Each earth shall be as per RDSO Specification No.RDSO/SPN/197/2014 ver 1.0 or latest(drawings enclosed)						
17	17	1.00	Numbers	8680.00	8680.00	AT Par	8680.00
	<b>Description:-</b> Provision of Earthing protection arrangement as per RDSO drawing no. TCA 565 (Adv.) .All the materials including earth electrodes required for the work to be supplied by the contractor.						
18	18	17.00	Numbers	11504.00	195568.00	AT Par	195568.00
	<b>Description:-</b> Supply transportation, fixing, wiring, termination of cable, erection of rail post of size 2.8mtrs including foundation of post in cement concrete (1:2:4) as per the direction of the site Engineer incharge of Railway, testing and commissioning of six pin emergency socket box complete cast iron make as per Drg. No. SE/T/50/76. This include transportation of rail posts (provided by the Railway) from Bilaspur or any place in the section to work site, fixing of 40 mm dia G.I.Pipe and emergency socket box. Cast iron emergency socket box with complete fittings are to be first supplied to the stores of SSE/Sig/Con/BIA and then collected from there for execution. Supply of U-bolt for fixing emergency socket, cutting of Rails to the size and welding of G.I.Pipe on the rail post will be done by the Contractor. This work includes painting of rail posts with black and white paints after two times primer coating. Note :- 10% of emergency sockets with complete fittings including Cast iron box to be supplied extra as spare within the same cost.						
19	19	2.00	Numbers	892.00	1784.00	AT Par	1784.00
	<b>Description:-</b> Dismantling of unused/old emergency socket post approximate dimention Height -1.25 mtr * cross section- 15 cm x15 cm (drg enclosed) and transportation from site to GSD store/Raipur, which includes excavation of soil/concrete to a depth of 15 cm from the surface and back filling and ramming after cutting the post.This is required to avoid projection of remain of post over the ground level.The contractor must ensure, that rail post shall be cut below the normal ground surface area.						
20	20	2.00	Numbers	1053.00	2106.00	AT Par	2106.00
	<b>Description:-</b> Shifting/re-location, fixing, erection of rail post of size 2.8mtrs and testing of emergency socket as per direction of site engineer of Railway. This includes excavation of trenching for shifting the existing 10/20 PIJF cable, clearing of existing Rail post with foundation and re-erection of same rail post.						
	21	12.00	Numbers	480.00	5760.00	AT Par	5760.00



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21	<b>Description:-</b> Transportation, installation, testing & commissioning of 4W way station equipment DTMF type and way station 4W control telephone including termination of the electric wires, battery wires, switch board cable on the equipment. The termination shall be done using eyelets of required size. The way station equipments shall be fixed over the wall on board of approved design. Board and all the materials required for fixing and termination to be supplied by the contractor.							
22	22	3.00	Numbers	480.00	1440.00	AT Par	1440.00	
22	<b>Description:-</b> Transportation, installation and commissioning of 12V. Power supply unit for telecom installations at wayside stations on wall mounting stand of approved design including termination of Power supply cable all other materials required for fixing and termination to be supplied by the contractor.							
23	23	4.00	Station	44126.00	176504.00	AT Par	176504.00	
23	<b>Description:-</b> Transportation, Installation & commissioning of SDH ADM, Primary D/I MUX with all accessories and power supply, racks, runway ladder etc. in cable huts including wiring of all the equipments up to C.T. Box install for Outdoor/ Derivation cables as per the requirement at each station. Note:- The work involves fixing of 19" rack, Installation & wiring of equipment connecting to 48 V. bus bar including supply of all wires and connectors. The equipment shall be mounted in shelves of standard 19" racks. All 21 E1 streams shall be suitably terminated on Digital Distribution Frame.							
24	24	17.00	Kilometre	16479.00	280143.00	AT Par	280143.00	
24	<b>Description:-</b> Laying of Quad Cable, PIJF cable of different sizes, power cable, signalling cable of different size in the excavated trench, inside GI, RCC and HDPE pipes. This includes loading/unloading & transportation of cables from the stores of railway as per the availability. Wherever several cables of different categories have to be laid in the same trench/path, the provision of separation of various cable should be as advised by the site incharge of the Railway. Empty cable drums to be returned by the contractor. The cable drums with unused cable at site to be returned by the contractor from site to Stores depot of SSE/Sig/Con/BSP.							
25	25	1.50	Kilometre	21869.00	32803.50	AT Par	32803.50	
25	<b>Description:-</b> Supply, transportation, placing and positioning breadth-wise of standard second class bricks in excavated trench on the laid cable at the rate of 9 bricks per metre in the stations (Home signal to Home Signal) and colony area and at the locations as advised by site incharge of Railway.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule () D-Telecom Material Supply</b>							3939284.00	Above/ Below/Par
01	01	4.00	Numbers	3483.00	13932.00	AT Par	13932.00	
01	<b>Description:-</b> Supply of Optical fibre joint closure for straight through joint with modification for 24 fibre OFC as per TEC Specification. No. GR/OJC-02/02 SEP 2003 (with latest amendment) complete with all accessories. Inspection by RITES.							
02	02	36.00	Numbers	3425.00	123300.00	AT Par	123300.00	
02	<b>Description:-</b> Supply of Universal thermoshrink jointing kit for derivation/ transformer joint for Jelly filled Six quad cable conforming to RDSO Spec.No :IRS-TC-77/2006(Rev.1) (With latest amendment). Inspection by RDSO.							
03	03	2.00	Numbers	3425.00	6850.00	AT Par	6850.00	
03	<b>Description:-</b> Supply of Thermoshrink jointing kit for 10/20/50 pair Jelly filled cable conforming to RDSO Spec.No.RDSO/SPN/TC/57/2006 (Rev.0) (With latest amendment). Inspection by RDSO.							
04	04	18.00	Numbers	1037.00	18666.00	AT Par	18666.00	
04	<b>Description:-</b> Supply of VF Tapping Transformer 1120:470 (rack mountable) as per specification No. IRS-TC-22/76(With latest amendment). Inspection by RDSO.							
05	05	1220.00	Metre	37.00	45140.00	AT Par	45140.00	
05	<b>Description:-</b> Supply of UTP CAT 6 Cable (Roll is 305 Mtr). Make Amp or Molex. Inspection by Rep. of Railway Engineer.							
06	06	13.00	Numbers	6657.00	86541.00	AT Par	86541.00	
06	<b>Description:-</b> Supply of 4 wire Way-station Control Equipment DTMF type as per IRS Spec. No. : TC 60/2007(with latest amendment) including way station control telephone as per RDSO spec. no.IRS TC 38-97(latest amendment), Inspection by RDSO.							
07	07	3.00	Numbers	7456.00	22368.00	AT Par	22368.00	
07	<b>Description:-</b> Supply of 12 V. Power supply unit for Telecom. Installation for way-side equipment in 25 KV Electrified area suitable for 6 equipment of DTMF type as per IRS Spec. No : TC 72-97(with latest amendment) including 12V, 7AH maintenance free battery. Inspection by Rep. of Railway Engineer.							
08	08	20.00	Numbers	1892.00	37840.00	AT Par	37840.00	
08	<b>Description:-</b> Supply of one quad VF transformer assembly 2T for quad cable (470 : 1120) for derivation joints to specification No. IRS-TC-76/2000(With latest amendment) Inspection by RDSO.							
09	09	5.00	Numbers	2865.00	14325.00	AT Par	14325.00	
09	<b>Description:-</b> Supply of following type of Wago Make Terminal block(with lever type disconnection & reconnection facility) duly fitted in C.T. box of approved quality, suitable for termination of 0.9mm wire. Inspection by Rep. of Railway Engineer. 20 Pair.							
10	10	600.00	Metre	39.00	23400.00	AT Par	23400.00	
10	<b>Description:-</b> Supply of following types of twisted pair PVC switch board cable, conductor of size 0.6mm. dia annealed copper conforming to IRS-TC-24/91 or ITD 1138. Inspection by Rep. of Railway Engineer. 10 Pair							
	11	3.00	Set	30222.00	90666.00	AT Par	90666.00	

**DYCSTE-C-RAIPUR-S AND T/SOUTH EAST CENTRAL RLY  
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11	<b>Description:-</b> (i) Motorola VHF Mobile Synthesized Trans-receiver, Model-GM-339, 146 to 174 MHz frequency range 16 programmable channels, 25 watt RF power out put maximum 2/5 KHz channel specing compact palm microphone, Cable and hang up clip, non locking mounting bracket power cable, limited accessory connectors front facing internal speaker operators handbook mini UHF Male to Female adaptor (Antenna) is not included.. Inspection by RITES. (ii) 1/4 wave VHF rooftop mount mobile whip Antenna with mounting bracket 3 Mtr cable and mini UHF connector. (iii) 3 & B gain VHF roof top mount mobile whip Antenna with mounting bracket 3 Mtr. Cable and mini UHF connector.							
12	12	4.00	Numbers	217922.00	871688.00	AT Par	871688.00	
	<b>Description:-</b> Supply of programmable Primary Digital Drop Insert Multiplexer complete with all accessories from RDSO approved vendor as per RDSO specification IRS TC 68-04 (with latest amendment) including connectors and cables required for installation including 100 pair Krone type MDF. Each channel card shall have minimum four channels per card. The single sub rack shall be capable of being equipped up to min. 60 Channels without additional power supply unit. Specification as per Annexure. The MUX shall be :wired & equipped for 30 channels, with following circuits:- 16 Nos. VF 2W/4W E & M circuits, 8 nos. of 2 wire FXO circuits, 6 Nos. 2W.Subs/Hotline circuits along with ringer card., compatible to existing MUX. Inspection by RDSO.							
13	13	4.00	Numbers	135332.00	541328.00	AT Par	541328.00	
	<b>Description:-</b> Supply of SMPS based battery chargers for telecom use 48 volts, 25 Amps in 1+1 configuration modules of 25 Amps each with automatic switching between the modules as per RDSO Specification no. RDSO/SPN/TL/23/99/V3 (with latest amendment) along with two potential free contacts for monitoring AC/DC failure through EMS to be inspected by RDSO. Preferably Amaraja or Statcon make.							
14	14	4.00	Set	137067.00	548268.00	AT Par	548268.00	
	<b>Description:-</b> Supply of 48 Volt,200 AH maintenance free VRLA batteries duly charged as per specification no.IRS:S-93/96A (with latest amendment). Inspected by RDSO.							
15	15	4.00	Numbers	311694.00	1246776.00	AT Par	1246776.00	
	<b>Description:-</b> Supply of managed expandable rack type STM-4, equipped STM-1, ADM S1.1, as per technical Specification no. TEC GR NO. GR/SDH-10/02 March 05 (with latest amendment) with 2 Nos.STM-1 aggregate Optical interface upgradable to STM-4, 21 E1s, and minimum 8 Nos. of 10/100 base T Ethernet port, Orderwire, Power supply unit, subrack, DDF, Installation materials, manuals and other accessories . The equipment should be TEC/BSNL/RDSO Approved and to be inspected by RDSO. The equipment should be fully wired for its ultimate capacity and provide redundancy for Power supply and Synchronisation. It shall be possible to use the full capacity of the equipment by adding additional tributary cards. The upgradation of STM-1 to STM-4 shall be without change of any internal hardware of the STM equipment. The STM equipment shall have in-built L2 switch for Ethernet ports. Make - compatible to existing STM System in the section.							
16	16	4.00	Numbers	62049.00	248196.00	AT Par	248196.00	
	<b>Description:-</b> Supply of covered 19" racks (2200MM(H)X600MM(W)X600MM(D).) complete with all fittings for housing the sub-rack SDH ADMs & PD MUXs( to suit with Sr. No. 1,2 & 3 of schedule-D) fully wired including Power Supply Distribution system, rack exhaust fan(48vdc) and other installation accessories for installation and to be inspected by RDSO. .Note :- It should have door on both sides with locking arrangement. (Make: APW or RITTAL)							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> ( ) A1-Execution of Indoor Signalling Work							4531413.00	Above/ Below/Par
01	01	31.00	Numbers	48363.00	1499253.00	AT Par	1499253.00	
	<b>Description:-</b> Q-series/Composite Relay Racks and cable termination racks (New). Note:- Payment can be released in a part for the above said work after completion of- Errection-15%, Wiring, testing, painting, earthing & writings etc. - 75%, Commissioning of Relay rack/Composite rack/CTR- 10% of Schedule rate.							
02	02	23.00	Each	507.00	11661.00	AT Par	11661.00	
	<b>Description:-</b> Installation and wiring of Rotary key transmitters/KLCR on teak wood board enclosed inside a suitable box with front transparent check cover with locking arrangement. This includes 3/4" thick teak wood boards, transparent sheet for box, locking arrangement. 2 nos.of locks for box and 1 No. lock for front transparent sheet.							
03	03	276.00	Each	310.00	85560.00	AT Par	85560.00	
	<b>Description:-</b> Charging and installation of secondary cell 2 V (lead acid type), and preparation of electrolyte for lead acid cells. If power is not available at site of work, charging may be done at nearby location as per convenience of the Railway. (ii) 2 Volt 80AH							
04	04	3.00	Numbers	8876.00	26628.00	AT Par	26628.00	
	<b>Description:-</b> Installation, cable termination, wiring, testing & commissioning of Integrated power supply panel as per approved power supply diagram and specification. The contactor has to supply arrangements at central relay room, goomties on original tracing paper of size 60cm.x42cm. with 8 computer prints in the format supplied by railways.							
05	05	70.00	Day	620.00	43400.00	AT Par	43400.00	
	<b>Description:-</b> Maintenance of the installation under competent supervisor of contractor.							
06	06	28.00	Numbers	999.00	27972.00	AT Par	27972.00	
	<b>Description:-</b> Installation, cable termination, wiring, testing of magneto telephones.							
07	07	3.00	Job	1242.00	3726.00	AT Par	3726.00	
	<b>Description:-</b> (a) Wiring of door detection Proximity switch to the tag block of dataloggers/RTU (This includes provision of casing and capping and other wiring accessories, excluding 16/0.2 wire which will be supplied by Railways). Insp. By Rep. of Railway Engineer. This includes incorporation of this contact in datalogger simulation & datalogger report. Here Job unit stands for Station/Section.							

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08	08	3.00	Job	1242.00	3726.00	AT Par	3726.00	
	<b>Description:-</b> (b) Installation, testing of door contacts and validation and proximity switch data through Dataloggers/RTU. This includes incorporation of this contact in datalogger simulation & datalogger report. Here Job unit stands for Station/Section.							
09	09	3.00	Job	1242.00	3726.00	AT Par	3726.00	
	<b>Description:-</b> (c) Development of door 'close and open' software logics module & its implementation. Insp. By Rep. of Railway Engineer. Here Job unit stands for Station/Section.							
10	10	4.00	Station	43453.00	173812.00	AT Par	173812.00	
	<b>Description:-</b> Modification/Alteration of Data Logger/RTU Digital Input, validity & yard simulation in both end station of IBS as per directive of Railway Representative .							
11	11	3.00	Numbers	372446.00	1117338.00	AT Par	1117338.00	
	<b>Description:-</b> Provision of simulation arrangement(Track and Point simulation board as well as signal lamp simulation board) and its complete wiring ; arrangement of free home, advance starters, IBS etc as may be required with block working with required temporary relay wiring for controlling the train movement in NI - period with the provision of temporary miniature operation cum indication panel board; deputation of fitter round the clock in NI - period for assisting simulation testing for all the routes as per approved RCC by the Railway officials ; mobilization of additional man power for attending to the Pre - NI block and commissioning of the station within prescribed time limit of NI - period as decided by Railway officials; deputation of staff (one fitter & one helper) at the station for attending to the packing and realignment of point and crossing etc, in connection with P. Way block for a period of 30 days beyond the commissioning date. (a) Station upto 6 lines.							
12	12	2.00	Numbers	620743.00	1241486.00	AT Par	1241486.00	
	<b>Description:-</b> Provision of simulation arrangement(Track and Point simulation board as well as signal lamp simulation board) and its complete wiring ; arrangement of free home, advance starters, IBS etc as may be required with block working with required temporary relay wiring for controlling the train movement in NI - period with the provision of temporary miniature operation cum indication panel board; deputation of fitter round the clock in NI - period for assisting simulation testing for all the routes as per approved RCC by the Railway officials ; mobilization of additional man power for attending to the Pre - NI block and commissioning of the station within prescribed time limit of NI - period as decided by Railway officials; deputation of staff (one fitter & one helper) at the station for attending to the packing and realignment of point and crossing etc, in connection with P. Way block for a period of 30 days beyond the commissioning date. (b) Station more than 6 lines.							
13	13	13.00	Numbers	19785.00	257205.00	AT Par	257205.00	
	<b>Description:-</b> Alteration of existing Q-series/Composite Relay Racks and cable termination racks. Note:- Payment can be released in a part for the above said work after completion of- Errection-15%, Wiring, testing, painting, earthing & writings etc. - 75%, Commissioning of Relay rack/Composite rack/CTR- 10% of Schedule rate.							
14	14	2.00	Numbers	3309.00	6618.00	AT Par	6618.00	
	<b>Description:-</b> Installation testing and commissioning of Disitilled water plant/Demineralised plant.							
15	15	1.00	Each	4630.00	4630.00	AT Par	4630.00	
	<b>Description:-</b> Modifications of the existing domino type Control cum indication panel as per approved panel diagram, testing and commissioning with termination of cable, painting and lettering as required. Including replacement of dominoes, addition of new dominoes, laying of indoor cable if required between control pannel and CT rack, Cable termination as per requirement of the Railway. Fixing of cable , fixing of terminal block, M.S. wiring ladder with insulated M.S. strips from relay room to panel room, filling in sand under control panel rest table, cable duct, covering the open space around the control panel rest table with bricks lining, masonry work and plastering the same.							
16	16	13.00	Numbers	786.00	10218.00	AT Par	10218.00	
	<b>Description:-</b> Installation, cable termination, testing and commissioning of 10/20/50 Pair C.T.Boxes.							
17	17	2.00	Numbers	7227.00	14454.00	AT Par	14454.00	
	<b>Description:-</b> Alteration Modification,cable termination, wiring, testing & commissioning of existing Integrated power supply panel as per approved power supply diagram and specification. The contactor has to supply arrangements at central relay room, goomties on original tracing paper of size 60cm.x42cm. with 8 computer prints in the format supplied by railways.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule () B2-Supply of Signalling Materials</b>							15444794.00	Above/ Below/Par
01	01	2.00	Kilometre	47061.00	94122.00	AT Par	94122.00	
	<b>Description:-</b> Cable PVC insulated single core unsheathed with plain annealed copper conductor as per the colour coding scheme of Railways. Spec. no: IRS-S-76/89 with latest ammendment. Inspection by RDSO. (a) 7/0.75 mm dia.(Red & Black)							
02	02	2.00	Kilometre	22816.00	45632.00	AT Par	45632.00	
	<b>Description:-</b> Cable PVC insulated single core unsheathed with plain annealed copper conductor as per the colour coding scheme of Railways. Spec. no: IRS-S-76/89 with latest ammendment. Inspection by RDSO. (b) 3/0.75 mm dia. (Red & Black)							
03	03	81.00	Kilometre	10784.00	873504.00	AT Par	873504.00	
	<b>Description:-</b> Cable PVC insulated single core unsheathed with plain annealed copper conductor as per the colour coding scheme of Railways. Spec. no: IRS-S-76/89 with latest ammendment. Inspection by RDSO. (c) 16/0.2 mm dia. (20% grey & 80% yellow)							
	04	3.00	Kilometre	147469.00	442407.00	AT Par	442407.00	

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04	<b>Description:-</b> Cable PVC insulated single core unsheathed with plain annealed copper conductor as per the colour coding scheme of Railways. Spec. no: IRS-S-76/89 with latest ammendment. Inspection by RDSO. (e) Indoor cable as per IRS-S-76/89 with latest ammendment. 60x0.6 mm dia.					
	05	4.00	Kilometre	35877.00	143508.00	AT Par 143508.00
05	<b>Description:-</b> Cable PVC insulated single core unsheathed with plain annealed copper conductor as per the colour coding scheme of Railways. Spec. no: IRS-S-76/89 with latest ammendment. Inspection by RDSO. (b) 1x 2.5 Sq MM flexible wire (Red-15%, Black-50% , Green-20%, blue-7.5% & Yellow-7.5 %).					
	06	2.00	Kilometre	39683.00	79366.00	AT Par 79366.00
06	<b>Description:-</b> Cable PVC insulated single core unsheathed with plain annealed copper conductor as per the colour coding scheme of Railways. Spec. no: IRS-S-76/89 with latest ammendment. Inspection by RDSO. (c) 1x 4.0 Sq MM flexible wire (Red-45%, Black-45% & Green-10%)					
	07	4.50	Kilometre	116166.00	522747.00	AT Par 522747.00
07	<b>Description:-</b> Cable PVC insulated single core unsheathed with plain annealed copper conductor as per the colour coding scheme of Railways. Spec. no: IRS-S-76/89 with latest ammendment. Inspection by RDSO. (d) Multi strand ISI copper cable (10 Sq.mm ) (Red-45%, Black-45% & Green-10%).					
	08	4.50	Kilometre	122245.00	550102.50	AT Par 550102.50
08	<b>Description:-</b> Cable PVC insulated single core unsheathed with plain annealed copper conductor as per the colour coding scheme of Railways. Spec. no: IRS-S-76/89 with latest ammendment. Inspection by RDSO. (e) Multi strand ISI copper cable (16 Sq.mm ) (Red-45%, Black-45% & Green-10%).					
	09	32.00	Set	200459.00	6414688.00	AT Par 6414688.00
09	<b>Description:-</b> Electric Point Machine-IRS type 220mm Throw(CG make), High thrust(AC immunity 160 V AC), non-trailable to operate on 110 V DC complete with Lock & Detector slides, cable terminal box and Clamp lock & Ground connections for 60 Kg. Rail confirming to IRS: S 24 /2002 & Assy. Drg. no.- RDSO/S/11000 or latest & for Motor IRS : S 37/82 or latest. Details of Ground connection : Ground connection clamp type for 60 Kg rail 220 mm throw as per Crompton Greaves drawing (i) Lock Rod Drg. CSQ- 3456-57-58-59, (ii) Detector Rod Drg. No. CSQ- 34-36-37, (iii) Drive Rod Drg. no. CSQ-3460. This also includes supply of insulating materials as required for each set. Inspection by RDSO.					
	10	92.00	Each	5172.00	475824.00	AT Par 475824.00
10	<b>Description:-</b> Track feed Battery chargers 110V-AC 50 C/S with boost and trickle charging for 1 or 2 or 3 cells 80 A.H.Spec.No.IRS:S-89/2013 with latest amd. Inspection by RDSO.					
	11	276.00	Numbers	1039.00	286764.00	AT Par 286764.00
11	<b>Description:-</b> Track lead Junction Box (4-way) made of fibre re-inforced plastic Drg. SI-10272 Alt. 'B'. as per Spec. No. IRS: S-10/78. This also includes 4 nos. of PBT terminals for the same. Inspection by RITES.					
	12	102.00	Numbers	171.00	17442.00	AT Par 17442.00
12	<b>Description:-</b> Track feed resistance 30 ohms (2,4,8,16 Ohms) Drg. No. SA-20161-66/M or latest Spec. No: IRS. S/23. Inspection by RDSO.					
	13	184.00	Numbers	4594.00	845296.00	AT Par 845296.00
13	<b>Description:-</b> Choke coil 'B' Type as per spec. no:IRS:S-65/83 with latest ammendment if any. Inspection by RDSO.					
	14	280.00	Numbers	81.00	22680.00	AT Par 22680.00
14	<b>Description:-</b> Non-deteriorating type low voltage electric fuse for Railway signalling, rated voltage 240 V AC/DC fuse with cylindrical cap without indication size :14x 51 mm. Spec. no: IRS-S-78/92 with latest ammendment if any. Inspection by RDSO. (iii) 04 Amp fuse catridge					
	15	110.00	Numbers	73.00	8030.00	AT Par 8030.00
15	<b>Description:-</b> (a) Non-deteriorating type low voltage electric fuse for Railway signalling, rated voltage 240 V AC/DC fuse with cylindrical cap without indication size :14x 51 mm. Spec. no: IRS-S-78/92 with latest ammendment if any. Inspection by RDSO. (iv) 06 Amp fuse catridge					
	16	80.00	Numbers	79.00	6320.00	AT Par 6320.00
16	<b>Description:-</b> (a) Non-deteriorating type low voltage electric fuse for Railway signalling, rated voltage 240 V AC/DC fuse with cylindrical cap without indication size :14x 51 mm. Spec. no: IRS-S-78/92 with latest ammendment if any. Inspection by RDSO. (v) 16 Amp fuse catridge					
	17	680.00	Numbers	189.00	128520.00	AT Par 128520.00
17	<b>Description:-</b> Fuse Block for above fuse catridge, Spec. no: IRS-S-75/ 2006 (rev-2) with latest ammendment if any. Inspection by RDSO.					
	18	6250.00	Numbers	361.00	2256250.00	AT Par 2256250.00
18	<b>Description:-</b> ARA terminal for Signalling Installation with PBT materials. Inspection by RDSO. 6 Way (ARA terminal) Drg No.SA-23756 Alt3, Specn No. IRS-S-75/2006 (Rev.-2) with latest amd.					
	19	9300.00	Numbers	76.00	706800.00	AT Par 706800.00
19	<b>Description:-</b> Wago / phoneix terminal blocks (Part no.280-874). 4 conductor disconnect terminal block. RDSO Spec. RDSO/SPN/189/2004, Ver.3.0 or latest. Inspection by RDSO. It includes : (i) 4 conductor disconnect terminal block for test and measurement; 0.08 mm.sq.- 2.5mm.sq., Center marking with slot test for test plug dia 2mm/0.079 In and dia 2.3mm/0.091 in; Carrier rail din35: front-entry; with knife disconnect large cage clamp connection, grey. (ii) End and intermediate plate, 2.5Mm/0.394 in wide carrier rail din35, grey (Wago part no. 249-117). (iii) Screw end stop for carrier rail. (iv) steel carrier rail; 35 X 7.5 mm, 1 mm /0.039 in thick; unslotted (Part no. 210-229/PW11-0000). (v) WSB quick marking system; horizontal; 1 ...10 (10x); for width 5-17.5 Mm; 10 strips of 10 marker per strip (100) per card; consecutive numbers white (Part no. 209 -502S). (vi) Adjacent jumper nominal current 24A; Insulated Grey.					
	20	30.00	Numbers	1750.00	52500.00	AT Par 52500.00
20	<b>Description:-</b> Key Lock 'E' type with key Drg. No. SA-3376/M. Alt-2. Spec. No. IRS-S-30/64 different ward. Inspection by RDSO.					

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21	21	2.00	Set	10682.00	21364.00	AT Par	21364.00	
	<b>Description:-</b> Flasher & Hooter for LC gates (1 set shall comprise for 1 level crossing). Inspection by Rep. of Railway Engineer.							
22	22	10.00	Numbers	6172.00	61720.00	AT Par	61720.00	
	<b>Description:-</b> Electric Key Transmitter (RKT) single Drg. No. : SA -22601(Adv.) Alt.4 with ward No. 2 to 9, spec. no: IRS-S -21/2001 with latest amendment. Inspection by RDSO.							
23	23	18.00	Numbers	9244.00	166392.00	AT Par	166392.00	
	<b>Description:-</b> Key Lock Relay working with 24 V DC Non ACI type 4F/4B, Spec. no. IRS: S-23, IRS:S-34 & IRS: S-46. Inspection by RDSO.							
24	24	14.00	Numbers	14405.00	201670.00	AT Par	201670.00	
	<b>Description:-</b> Supply of the following furnitures for SM / relay room. Inspection by Rep. of Railway Engineer. (a) Chair Model PCH-5001T(Revolving) or latest. Make: Godrej .							
25	25	6.00	Numbers	14375.00	86250.00	AT Par	86250.00	
	<b>Description:-</b> Supply of the following furnitures for SM / relay room. Inspection by Rep. of Railway Engineer. (b) Table of Godrej make. Model No. WT 718 + ERU or latest							
26	26	25.00	Numbers	3096.00	77400.00	AT Par	77400.00	
	<b>Description:-</b> 200- Way Tag Block Spec.IRS-S-77/91 with latest amd & with Drg.No.SA-24751, 52, 53. Inspection by Rep. of Railway Engineer.							
27	27	90.00	Numbers	1379.00	124110.00	AT Par	124110.00	
	<b>Description:-</b> Supply of Double Walled Corrugated Pipe length 6 meter, 120mm outer dia, 103.5mm inner dia with couplers as per specification no. BSEN 50086-2-4 for under ground power/ communication /signal cable protection. One six meter pipe with collar at both end shall be counted a unit for the purpose of payment. Inspection by Rep. of Railway Engineer.							
28	28	8.00	Numbers	8796.00	70368.00	AT Par	70368.00	
	<b>Description:-</b> Supply and installation of 'AXLE COUNTER section ' Board on steel rectangular board of size 600mmX1000mm, 3mm thick legend on coloured retroreflective tape engineering grade( yellow background, lettering AXLE COUNTER section in black)as per GR and rectangular board fitted on rail post through 2 nos. of suitable clamps. Inspection by Rep. of Railway Engineer.							
29	29	16.00	Kilometre	3378.00	54048.00	AT Par	54048.00	
	<b>Description:-</b> Cable PVC insulated single core unsheathed with plain annealed copper conductor as per the colour coding scheme of Railways. Spec. no: IRS-S-76/89 with latest ammendment. Inspection by RDSO. (d) Jumper wires : 1x0.6 mm Dia. (In combination of colours as desired by Railways)							
30	30	3.00	Kilometre	125184.00	375552.00	AT Par	375552.00	
	<b>Description:-</b> Cable PVC insulated single core unsheathed with plain annealed copper conductor as per the colour coding scheme of Railways. Spec. no: IRS-S-76/89 with latest ammendment. Inspection by RDSO. (f). Indoor cable as per IRS-S-76/89 with latest ammendment. 40x0.6 mm dia.							
31	31	3.50	Kilometre	26569.00	92991.50	AT Par	92991.50	
	<b>Description:-</b> Cable PVC insulated single core unsheathed with plain annealed copper conductor as per the colour coding scheme of Railways. Spec. no: IRS-S-76/89 with latest ammendment. Inspection by RDSO. (a) 1x 1.5 Sq MM flexible wire (Red-45%, Black-45% & Green-10%).							
32	32	10.00	Numbers	65.00	650.00	AT Par	650.00	
	<b>Description:-</b> Non-deteriorating type low voltage electric fuse for Railway signalling, rated voltage 240 V AC/DC fuse with cylindrical cap without indication size :14x 51 mm. Spec. no: IRS-S-78/92 with latest ammendment if any. Inspection by RDSO. (i) 01 Amp fuse catridge.							
33	33	200.00	Numbers	81.00	16200.00	AT Par	16200.00	
	<b>Description:-</b> Non-deteriorating type low voltage electric fuse for Railway signalling, rated voltage 240 V AC/DC fuse with cylindrical cap without indication size :14x 51 mm. Spec. no: IRS-S-78/92 with latest ammendment if any. Inspection by RDSO. (ii) 02 Amp fuse catridge.							
34	34	10.00	Numbers	2419.00	24190.00	AT Par	24190.00	
	<b>Description:-</b> 20 pair CT Box. Inspection by Rep. of Railway Engineer.							
35	35	2.00	Numbers	14713.00	29426.00	AT Par	29426.00	
	<b>Description:-</b> Supply of clip on meter AC/DC with carrying case make Fluke or similar with standard accessories along with engineering and operating manual. Inspection by Rep. of Railway Engineer.							
36	36	30.00	Numbers	2332.00	69960.00	AT Par	69960.00	
	<b>Description:-</b> Supply of different type of dominoes complete with button assemblies and indication to suite for modification of the existing operation cum indication panel as per approved Front Plate Diagram. Inspection by Rep. of Railway Engineer.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> ( ) B3-Supply of Electrical & Electronics Materials							24486276.00	Above/ Below/Par
01	01	40.00	Numbers	3821.00	152840.00	AT Par	152840.00	
	<b>Description:-</b> Relay, Non-AC Immune, plug-in type, Style "QN1", Neutral line, 24V DC 12F.4B contacts, front and back contacts metal to carbon with plug board, retaining clip & connectors conforming to BRS:930, IRS:S 34 & IRS:S 23. The interlocking code for this unit shall be ABCDE. Inspection by RDSO.							
	02	370.00	Numbers	3821.00	1413770.00	AT Par	1413770.00	
02								



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03	03	40.00	Numbers	4032.00	161280.00	AT Par	161280.00	<b>Description:-</b> Relay, Non-AC Immune, plug-in type, Style "QN1", Neutral line, 24V DC 8F.8B contacts, front and back contacts metal to carbon with plug board, retaining clip & connectors conforming to BRS:930, IRS:S 34 & IRS:S 23. The interlocking code for this unit shall be ABCDF. Inspection by RDSO.
								<b>Description:-</b> Relay, AC Immune, plug-in type, Style "QNAI", Neutral line, 24V DC 12F.4B contacts, front and back contacts metal to carbon with plug board, retaining clip & connectors conforming to BRS:931A, IRS:S 60, IRS:S 34 & IRS:S 23. The interlocking code for this unit shall be ABDFH . Inspection by RDSO.
04	04	320.00	Numbers	4032.00	1290240.00	AT Par	1290240.00	<b>Description:-</b> Relay, AC Immune, plug-in type, Style "QNAI", Neutral line, 24V DC 8F.8B contacts, front and back contacts metal to carbon with plug board, retaining clip & connectors conforming to BRS:931A, IRS:S 60, IRS:S 34 & IRS:S 23. The interlocking code for this unit shall be ABDGH. Inspection by RDSO.
								<b>Description:-</b> Relay AC Immune, plug in type, STYLE QBAT, DC Biased track, 9 Ohms, 2F-2B, Contacts, front and back contacts metal to carbon complete with plug -board, retaining clip and connectors conforming to RDSO/SPN/84-88, IRS:S 34 & IRSS:23. The interlocking code for for this unit shall be ABEJX. Inspection by RDSO.
06	06	94.00	Numbers	4944.00	464736.00	AT Par	464736.00	<b>Description:-</b> Relay, AC Immune, plug-in type, Style 'QSPA1', Neutral line, slow to pickup, 24V DC, 8F.4B contacts, front and back contacts metal to carbon, complete with plug board, retaining clip & connectors conforming to BRS:933A, IRS:S 60, IRS:S 34 & IRS:S 23. The interlocking code for this unit shall be ABDEJ. Inspection by RDSO.
								<b>Description:-</b> Universal relay, plug in type, style AC/LED all aspects AC lamp proving relay unit with in built current transformer type, slow release neutral line relay 4F/4B contacts, front and back contacts metal to carbon, shall be suitable for working in series with the 110AC LED signal lamp rated at 15W conforming to RDSO specn. no. BRS:941A , STS/E/RELAYS/AC LIT/LED Signal/09-2002, Amdt-1 with latest. Inspection by RDSO.
08	08	62.00	Numbers	4804.00	297848.00	AT Par	297848.00	<b>Description:-</b> Relay, AC Immune, plug-in type, Style "QNA1K", Neutral line, 24V DC 1000 ohms 6F.6B contacts, front and back contacts metal to carbon with plug board, retaining clip & connectors conforming to BRS:931A, IRS:S 60, IRS:S 34 & IRS:S 23 & RDSO Spec. no. STS/E/Relay/UEA(PI). The interlocking code for this unit shall be CDEKY. Inspection by RDSO.
								<b>Description:-</b> Relay Flasher, (Anuvidyuat make or Similar) Electronic solid state input 24V. DC at 40/60 flashes per minute. Specification No.RDSO/SPN/173/2002. Inspection by RDSO.
11	11	4.00	Numbers	2544.00	10176.00	AT Par	10176.00	<b>Description:-</b> Timer Relay Fail safe type of electronic time delay device - 24 Volt DC (Anuvidyuat make or similar) for Rly. Signalling as per Spec. No. IRS:S-61/2000 with latest amendment. The interlocking code pin for this unit shall be AFGKY. (with a time setting of 120 seconds). Inspection by RDSO.
								<b>Description:-</b> Timer Relay Fail safe type of electronic time delay device - 24 Volt DC (Anuvidyuat make or similar) for Rly. Signalling as per Spec. No. IRS:S-61 with latest amendment. The interlocking code pin for this unit shall be AFHKY. (with a time setting of 60 seconds). Inspection by RDSO.
12	12	22.00	Pair	4414.00	97108.00	AT Par	97108.00	<b>Description:-</b> Electronic Magneto telephone desk type to Specn No.IRS-TC-79/2000. Inspection by Rep. of Railway Engineer.
								<b>Description:-</b> Supply of datalogger system for Railway S&T installation as per RDSO specification no. IRS:S-99/2006 (ammedent - 3) or latest with - (i) Digital Input 512, Analog Input 64. Inspection by RDSO.
14	14	2.00	Numbers	29408.00	58816.00	AT Par	58816.00	<b>Description:-</b> Installation, wiring, testing and commissioning of Digital Input 512, Analog Input 64 datalogger system as per RDSO specification no. IRS:S-99/2006 (ammedent - 3) or latest including networking and central monitoring along with installation of remote monitoring software and hardware. The contractor is also required to list out the no. of analog & digital inputs for wiring & operation of the datalogger by taking approval of the Rly. for those inputs. This includes training to 4 staffs at site.
								<b>Description:-</b> Supply of protocol converter to suit with the dataloggers of the station. Inspection by Rep. of Railway Engineer.
16	16	4.00	Numbers	3208.00	12832.00	AT Par	12832.00	<b>Description:-</b> Installation and wiring of protocol converter to suit with the dataloggers of the station .
								<b>Description:-</b> Electrically operated lifting barrier complete as per RDSO SPN no. 208/2012 Ver-2 with latest Amendment, operating voltage 110V AC,without hand generator, length of the boom is 9.76 meter / 32 feet. Inspection by RDSO. Note:- Spare shall also be supplied as per RDSO specifications and Supply of necessary Tool Kits (As per Annexure) (rates for them are included above)
18	18	30.00	Numbers	6770.00	203100.00	AT Par	203100.00	<b>Description:-</b> Relay Plug in type Style'QL1', Magenatically latched neutral line,24VDC 11F/4B contacts each, front and back contact metal to carbon , complete with plug board, retaining clips and connectors conforming to BRS:935A, IRS:S 34 & IRS:S 23. Interlocking code of this unit shall be ABDEG. Inspection by RDSO.
								<b>Description:-</b> Relay, AC Immune, plug-in type, Style "QNAI", Neutral line, 24V DC 12F.4B contacts, front and back contacts metal to carbon with plug board, retaining clip & connectors conforming to BRS:931A, IRS:S 60, IRS:S 34 & IRS:S 23. The interlocking code for this unit shall be ABDGH. Inspection by RDSO.
19	19	8.00	Numbers	669.00	5352.00	AT Par	5352.00	<b>Description:-</b> Relay, AC Immune, plug-in type, Style "QNAI", Neutral line, 24V DC 12F.4B contacts, front and back contacts metal to carbon with plug board, retaining clip & connectors conforming to BRS:931A, IRS:S 60, IRS:S 34 & IRS:S 23. The interlocking code for this unit shall be ABDGH. Inspection by RDSO.
								<b>Description:-</b> Relay, AC Immune, plug-in type, Style "QNAI", Neutral line, 24V DC 12F.4B contacts, front and back contacts metal to carbon with plug board, retaining clip & connectors conforming to BRS:931A, IRS:S 60, IRS:S 34 & IRS:S 23. The interlocking code for this unit shall be ABDGH. Inspection by RDSO.

**DYCSTE-C-RAIPUR-S AND T/SOUTH EAST CENTRAL RLY  
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	<b>Description:-</b> Supply of Door Proximity switches along with 2 way rigid connector for wire termination between proximity switches and Datalogger Tag blocks as per specs. Inspection by Rep. of Railway Engineer.						
	20	3.00	Set	140357.00	421071.00	AT Par	421071.00
20	<b>Description:-</b> Supply of Tool Kit for Multi Section Digital Axle Counter. Inspection by Rep. of Railway Engineer. It consist of: (a) Fluke289 or latest Digital multimeterof for MSDAC system with Probeset = One no. (b) Torque wrenches 25-135 N/Mtr. (c) Setof Spanners Screw driver and soldering iron suitable fo rMSDAC. (d) Dummy wheel. (e) Marking Jig. (f) Adapter Card.(g) DAC EC Card Puller. (h) Microprocessor based portable dataanalyzer for down loading Eventlogger data for analysis andreport generation for Digital Axle counter Model with (a) CPO-Intel Centrino Duo Mobile Technology with Intel Core 2 DUO Processor T 7200 or better 2 GHz, 4 MB L2 Cache of better. (b) MotherBoard- Intel 945 GM/PM Chipset.(c) Operating system- Preload with Vista Business and free open Software.(d)Processor/Memory/System Bus-667 MHz FSB or better,(e) MainMemory- DDR2-667 MHz (f)optical Drive-Internal 8XDVD+/-RW Combination Drive (Super Multi ) with dual layer write and read capabilities or better with software, (g) Graphics Accelerator - Intel (R) Media Accelerator-950 Graphics: Up to 224 MB shared system memory, resolution 2048 X 1536, (h) Display-15.4" TFT WXGA Display (1280 X 800 resolution) (i) Interfaces-IEEE 1394 integrated port (10/100/1000); 4* USB PORT + 1* Powered USB (D-Bay), 1* serial port RJ45 Ethernet port, RJ11 Modem port; external VGA port; Video: 15-pinmonitor connector, Component Video & Audio jacks; Built in Microphone; Bluetooth 2.0, (j) Wireless LAN - Intel (r) PRO/Wireless 3945. Network Connection 802.11 a/g Wi-Fi enabled., (k) Modem Internal 56kbps or better.						
	21	11.00	Set	37882.00	416702.00	AT Par	416702.00
21	<b>Description:-</b> Supply of fuse indication cum monitoring and automatic changeover system as per RDSO specification no. RDSO/SPN/209/2012 Rev. 0 or latest. The system shall be supplied along with all standby fuses placed in the system. In addition to it, spare quantity of 100% fuses of each type shall also be supplied along with the system. Inspection by RDSO. For 32 fuses per set (Upto 4 Amps)						
	22	15.00	Numbers	9469.00	142035.00	AT Par	142035.00
22	<b>Description:-</b> Transportation, installation, testing & commissioning of fuse indication cum monitoring and automatic changeover system as mentioned above.						
	23	5.00	Numbers	131577.00	657885.00	AT Par	657885.00
23	<b>Description:-</b> Supply of Earth Leakage Detector (12 nos. channel) as per RDSO specification no. RDSO/SPN/256/2002 or latest having 6 digit counter, 12 Channel bus bar voltage of 110 V / 60 V / 12 V in AC DC measurement in 19" sub rack along with insulation resistance meter, remote indication & buzzer in ASM room at station of Bilaspur/Raipur/ Nagpur Division. The tenderer should submit three years warranty certificate along with supply of material. Inspection by RDSO.						
	24	5.00	Numbers	32894.00	164470.00	AT Par	164470.00
24	<b>Description:-</b> Transportation, installation, testing & commissioning of Earth Leakage Detector as mentioned above.						
	25	2.00	Pair	77196.00	154392.00	AT Par	154392.00
25	<b>Description:-</b> A pair consist of two numbers of CYGNUS 835(V.21 to E1 converter) with the following configuration:- (1) UP link port: One E1 interface(120 ohms Blanced) with RJ45 connector. (2) User DTE port: one no. of 2-wire analog voice channel interface compatible with V.21 standard. (3)Automatic changeover: The automatic changeover feature allows the axle counters to be get connected via a hot stand by redundant copper path if the E1 link fails or if the CYGNUS 835 unit is powered off. (4)Backup link capacity: Facility is provided to check the live availability of the changeover backup copper circuit when it is not being used for user data communication. (5) V.21 modem signal monitoring: Facility is provided to check the local signal status between the conencte axle counter and CYGNUS 835. This facility will not be available when E1 link to remote CYGNUS 835 units is down and the user device communication has switched over to the backup copper link. (6) Alarm relay: potential free relay contac is provided to indicate alarm conditions such as unit power down, E1 link down, back up link down, CD down, customer may connect this relay output through a data logger in order to monitor the alarm status from a central site, or use it for raising an alarm using external circuitry. (7) Line quality monitoring: Facility is provided to monitor the error rate of the E1 link against a programmable preset level. The product may be configured to report a condition where the E! channel error rate exceeds the specified limit over a certain period. (8) Event logs and statistics: Facility provided to fetch the time stamped event such as unit power ON/OFF, E1 link UP/down, copper back up link UP/Down, V.21 modem signal status changes, and also a statistical prewsentation of the same. (9) SMS alert: Facility provided to send SMS alert in case alarm condition develops. [This facility requires an external GSM modem and it not covered under the scope of this quotation.] (10) Power supply: 48 V DC; ordering time option of 24 VDC available as an alternative. (11) Industrial grade components. Inspection by RITES.						
	26	2.00	Pair	11529.00	23058.00	AT Par	23058.00
26	<b>Description:-</b> Installation charges for two numbers of CYGNUS 835(V.21 to E1 converter). Note- the price for installation will not be included any cabling charges, splicing charges, power supply arrangement etc.						
	27	20.00	Numbers	4944.00	98880.00	AT Par	98880.00
27	<b>Description:-</b> Relay Non- AC Immune, Plug in type, style 'QNN1', twin neutral line, 24V DC, 4F/4B contacts, each for LH & RH, front & back contacts metal to carbon, complete with plug board, retaining clips and connectors, conforming to BRS: 960, IRS: S 34 & IRS : S23. The interlocking code for this unit shall be ACEHJ. Inspection by RDSO.						
	28	12.00	Set	505512.00	6066144.00	AT Par	6066144.00
28	<b>Description:-</b> Supply of Single section Digital Axle counter as per RDSO specification no. RDSO/SPN/177/2012(Ver- 3) or latest, Phase Reversal Type, consisting of the following:- (a) High frequency Tx coil & Rx coil (Each set consists of Web mounting/clamp type 2 nos. Tx and 2 nos. Rx coil) =1 set. (b) Track side digital axle counter unit DACF-710P =2 Nos. (c) Vital Relay box duly wired =2 nos. each with 2 nos. of 24 V, 1000 ohms, "Q" type relays. (d) Clamp with deflector plates and hardware etc =4 Nos. (e) Reset box = 2 Nos. (f) Surge voltage protection device box =2 Nos. Inspection by RDSO.						
	29	1.00	Numbers	623709.00	623709.00	AT Par	623709.00
29							



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	<b>Description:-</b> Supply of datalogger system for Railway S&T installation as per RDSO specification no. IRS:S-99/2006 (ammedent - 3) or latest with- (ii) Digital Input 1024, Analog Input 64. Inspection by RDSO.								
30	30	1.00	Numbers	46786.00	46786.00	AT Par	46786.00		
	<b>Description:-</b> Installation, wiring, testing and commissioning of Digital Input 1024, Analog Input 64 datalogger system as per RDSO specification no. IRS:S-99/2006 (ammedent - 3) or latest including networking and central monitoring along with installation of remote monitoring software and hardware. The contractor is also required to list out the no. of analog & digital inputs for wiring & operation of the datalogger by taking approval of the Rly. for those inputs. This includes training to 4 staffs at site.								
31	31	6.00	Pair	1028577.00	6171462.00	AT Par	6171462.00		
	<b>Description:-</b> (a) Supply of block proving with Digital Axle Counter as per RDSO spec. no. IRS: S - 105/2025, Ver 1.0 or latest using UFSBI & Block panel for single line operation. Inspection by RDSO. Note:-The above consisting of following For Single line :- (1) Universal fail safe block interface as per RDSO Specn no. RDSO/SPN/147/2005 (Latest ammendments) - 2 nos. (2) SM's Panel (RDSO/S/32019 tentative - 2 nos. (3) Relay Rack with locking and sealing arrangement duly wired (as per RDSO/S/32020 - tentative) - 2 nos. (4) Relays:- QN1- 44 nos., QNA1-12 nos., QL1- 4 nos. Timer - 2 nos. (5) Block Telephone- 2 nos.								
32	32	6.00	Pair	90440.00	542640.00	AT Par	542640.00		
	<b>Description:-</b> (b) Transportation, Installation, testing and commissioning of block proving with DAC using UFSBI & Block panel complete set as mentioned above.								
33	33	6.00	Pair	35386.00	212316.00	AT Par	212316.00		
	<b>Description:-</b> (c) Supply of Automatic Media changeover of UFSBI working on redundant channels for data transmission on OFC/ Quad. Inspection by Rep. of Railway Engineer.								
34	34	6.00	Pair	69087.00	414522.00	AT Par	414522.00		
	<b>Description:-</b> (d) Supply of Modem compatible with existing UFSBI system (for secondary/back up media) along with class D/ Type III SPD for communication line (2 wire Tx & 2 wire Rx) to UFSBI for different surges. Make:- OBO Betterman/CITEL or similar. Inspection by Rep. of Railway Engineer.								
35	35	6.00	Pair	17850.00	107100.00	AT Par	107100.00		
	<b>Description:-</b> (e) Installation, testing and commissioning of Automatic Media changeover Modern for use with secondary/back up media.								
36	36	1.00	Numbers	240611.00	240611.00	AT Par	240611.00		
	<b>Description:-</b> Supply of Remote terminal unit with 128 digital & 16 analog inputs with modem as per RDSO spec. no - IRS-S- 99/2006 or latest. Inspection by RDSO.								
37	37	1.00	Numbers	24061.00	24061.00	AT Par	24061.00		
	<b>Description:-</b> Installation, Wiring, Testing and commissioning of Remote terminal unit with 128 digital & 16 analog inputs with modem as per RDSO spec. no - IRS-S- 99/2006 or latest .								
38	38	1.00	Numbers	16253.00	16253.00	AT Par	16253.00		
	<b>Description:-</b> Supply of fault analysis software for RTUs. The work to be executed as per directives of the Repr. of CSTE/Con. Inspection by Rep. of Railway Engineer.								
39	39	4.00	Set	37882.00	151528.00	AT Par	151528.00		
	<b>Description:-</b> Supply of fuse indication cum monitoring and automatic changeover system as per RDSO specification no. RDSO/SPN/209/2012 Rev. 0 or latest. The system shall be supplied along with all standby fuses placed in the system. In addition to it, spare quantity of 100% fuses of each type shall also be supplied along with the system. Inspection by RDSO. For 24 fuses per set (Upto 10 Amps).								
40	40	1.00	Numbers	72290.00	72290.00	AT Par	72290.00		
	<b>Description:-</b> HP/OEM approved document scanner/Printer/Fax A3 /Legal size Resolution in dpi 300,speed in PPM 20, ADF capacity 50, Flate Bed Size NA, Document size legal or latest or similar. Inspection by Rep. of Railway Engineer.								
41	41	2.00	Each	7330.00	14660.00	AT Par	14660.00		
	<b>Description:-</b> Hand Operated Earth tester 4 terminal type with complete testing kit, carrying case and manufacturer calibration test certificate, Nippen make or similar, Range : 0-10 Ohms. Inspection by Rep. of Railway Engineer.								
42	42	1.00	Each	6178.00	6178.00	AT Par	6178.00		
	<b>Description:-</b> Hand Operated Insulation tester with test lead, carrying case and manufacturer calibration test certificate, Nippen make or similar, Range : 100 Volt , 100 M Ohms. Inspection by Rep. of Railway Engineer.								
43	43	1.00	Each	6530.00	6530.00	AT Par	6530.00		
	<b>Description:-</b> Hand Operated Insulation tester with test lead, carrying case and manufacturer calibration test certificate, Nippen make or similar, Range : 500 Volt , 200 M Ohms. Inspection by Rep. of Railway Engineer.								
44	44	10.00	Numbers	1106.00	11060.00	AT Par	11060.00		
	<b>Description:-</b> Supply of VF tapping termination transformer to specification IRS-TC-22/76 for 470:1120, 1120:600, 1120:1120. Inspection by Rep. of Railway Engineer.								
45	45	2.00	Numbers	28071.00	56142.00	AT Par	56142.00		
	<b>Description:-</b> Supply of External leased line modem as per RDSO specition no. IRS:S-99/2006 amadt-3 or latest.. Inspection by RDSO.								
	S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
	Schedule ( ) NS1-Signalling Design & Drawing							1266952.00	Above/ Below/Par
	01		170.00	Sheet	1004.00	170680.00	AT Par	170680.00	

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01	<b>Description:-</b> Design and development of Route Control Chart (RCC) in size B(A3) as per Chapter 8 of IRSEM . All plan/drawing/circuits are to be prepared by contractor with Contractor's designer name, designation, license number with their initials.							
	02	5.00	Station	5024.00	25120.00	AT Par	25120.00	
02	<b>Description:-</b> Design and development of Front Plate Diagram (FPD) conventional/ Dual VDU FPD in size W(A1) as per Chapter 8 of IRSEM . All plan/drawing/circuits are to be prepared by contractor with Contractor's designer name, designation, license number with their initials.							
	03	9.00	Station	5024.00	45216.00	AT Par	45216.00	
03	<b>Description:-</b> Design and development of Station working rule Diagram (SWRD) based on SIP of station in size U(A3) as per Chapter 8 of IRSEM . All plan/drawing/circuits are to be prepared by contractor with Contractor's designer name, designation, license number with their initials.							
	04	7.00	Station	2511.00	17577.00	AT Par	17577.00	
04	<b>Description:-</b> Design & development of cable corage plan in size U(A3) as per Chapter 8 of IRSEM . All plan/drawing/circuits are to be prepared by contractor with Contractor's designer name, designation, license number with their initials. Here Job unit stands for Station/Section.							
	05	9.00	Station	1256.00	11304.00	AT Par	11304.00	
05	<b>Description:-</b> Design & development of cable route plan in size U(A3) as per Chapter 8 of IRSEM . All plan/drawing/circuits are to be prepared by contractor with Contractor's designer name, designation, license number with their initials. Here Job unit stands for Station/Section.							
	06	5.00	Station	1256.00	6280.00	AT Par	6280.00	
06	<b>Description:-</b> Design & development of Track bonding/DP plan in size U(A3) as per Chapter 8 of IRSEM . All plan/drawing/circuits are to be prepared by contractor with Contractor's designer name, designation, license number with their initials. Here Job unit stands for Station/Section.							
	07	520.00	Sheet	1004.00	522080.00	AT Par	522080.00	
07	<b>Description:-</b> Design and development of Circuit Diagram in size B(A3) as per Chapter 8 of IRSEM . All plan/drawing/circuits are to be prepared by contractor with Contractor's designer name, designation, license number with their initials.							
	08	450.00	Sheet	1004.00	451800.00	AT Par	451800.00	
08	<b>Description:-</b> Other Signalling Drawing in size U(A3) sheet (wiring in location box) as per Chapter 8 of IRSEM . All plan/drawing/circuits are to be prepared by contractor with Contractor's designer name, designation, license number with their initials. Note: All the drawings of item no. 1 to 8 is prepared and submitted by contractor, Name, Designation and License number with initial of the designer of the contractor to be mentioned compulsory. All designs and drawings shall be prepared by contractor/OEM having IRSE/IRSTELO License as per provisions of IRSEM.							
	09	95.00	Numbers	125.00	11875.00	AT Par	11875.00	
09	<b>Description:-</b> Maintenance Register as per Requirement.							
	10	5.00	Numbers	1004.00	5020.00	AT Par	5020.00	
10	<b>Description:-</b> Miniature diagram in size B(A3)							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> () NS2-Execution & Supply of Electronic Interlocking System							76232687.80	Above/ Below/Par
	01	760.00	Per Functional Vital Bit	96724.00	73510240.00	AT Par	73510240.00	
01	<b>Description:-</b> Design, manufacture and supply of Electronic Interlocking (EI) system complete as per RDSO specification no. RDSO/SPN/192/2019, Ver.2.0 with latest amendment, and special conditions of contract mainly consisting of Central processing equipment, Interfacing Equipment/ Relays as per RE requirements and hot standby with Dual VDU [two nos. of industrial grade high resolution VDUs (65" or higher size-4K) conforming to SIL-II certification for operator console at central location, Interfacing Relays, Interconnecting cables and jumper wires, One nos. of Maintenance Terminals (PC & VDU as maintenance console-65" (Industry standard PC) along with laser printer at central locations housing for EI Equipments and Relay Racks, Fixture, Class 'A' protection at each SSI room/goomty, mounting arrangements and accessories necessary to make the EI system functional, Tentative SIP is enclosed for station. This provision of hotstandby arrangement must have the supply, installation and commissioning of associated cards for the above arrangement such as communication card, synchronization card and others cards as required with supply & installation of supporting software and drives etc. (Module wise rates, inspection authority and quantity has to be enclosed in a separate sheet, without which offer will not be considered.) Embedded industrial grade fan less PCs should be of rugged and reliable type like MOXA series V 2406C-KL7-T, VBOX-3620-M12X, Advantech-ITA36502101-T or latest with compact flash drives in non-AC and in normal environment to be used. Minimum requirement of Embedded PC for EI shall be as per RDSO TAN no. STS/E/TAN/3007 dated 2.11.12 or latest (General requirement is as per latest TAN). The optical fiber connectivity with fiber management and diagnostic analysis system shall be provided to connect EI with SM room PC terminal. All interface relays for EI shall be supplied by Railways. Supply of essential spares (10% of main equipment module against the no.-1.). (Module wise rates, inspection authority and quantity should be given in separate sheet.). Supply and installation of one PC based work station for data input and configuration, simulation and functional testing, diagnostic & trouble shooting and commissioning of EI System. Instruments and Tool Kits required for trouble shooting and repair of hardware and software as per Annexure attached. Application logic and VDU layout to be designed as per RDSO circuit for less than 100 Routes. (Design should cover all latest RDSO/RB/SECR guideline, i.e. KAVACH ready interface/design policy, etc.)							
	02	3.00	System	625674.00	1877022.00	AT Par	1877022.00	

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02	<b>Description:-</b> Installation,wiring, Programming, testing (FAT & SAT) and commissioning of EI equipment supplied as per item no.1 above including transportation from consignee depot to site as per original manufacturer's specifications & RDSO specification STE/E/TAN/3012 dt 28.06.2021 or latest and provision of NMS for OFC as per TAN no/STS/E/TAN/3012 under supervision of OEM's Engineer / authorised representative. This also cover the installation of networking of datalogger.							
03	03	3.00	Per Unit	246283.60	738850.80	AT Par	738850.80	
	<b>Description:-</b> Supply and provision of Permetric/Ring Earth (Maintenance Free Earth) Arrangemnt as per RDSO/SPN/197/2016 Version 3.0 or Latest (with Latset Amendement). Supply of all requites material as pe rlatest RDSO Guide Line. Earthing shall comply all guidelines specified in RDSO TAN no. STS/E/TAN/3006 ver 3.1 dt 30/06/2025 or latest. inspection by RDSO. Here Per Unit stands for Per station/hut/goomty.							
04	04	150.00	Per Route	583.00	87450.00	AT Par	87450.00	
	<b>Description:-</b> Supply of completion drawings and documents of 06 sets per station as per special condition of contract and SECR policy. Final number of routes shall be determined based on sum of routes in approved TOC of Saron and Kumhari. Note: All the drawings are prepared and submitted by contractor, Name, Designation and License number with initial of the designer of the contractor to be mentioned compulsory. All designs and drawings shall be prepared by contractor/OEM having IRSE/IRSTELO License as per provisions of IRSEM.							
05	05	15.00	Man-Days	1275.00	19125.00	AT Par	19125.00	
	<b>Description:-</b> Training of Railway personnel in installation, commissioning, testing, trouble shooting, repairing, modification & alteration in EI system, including supply of hard copies of course module, etc. at site and OEM's manufacturing/production premises.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> () NS3-Alteration/Modification & Supply of Electronic Interlocking System							8358900.00	Above/ Below/Par
01	01	100.00	Per Functional Vital Bit	83589.00	8358900.00	AT Par	8358900.00	
	<b>Description:-</b> Modification/Alteration in EI (Electronic Interlocking) system at JAGDALPUR station as per latest RDSO guidelines/TAN/SECR guidelines & practices as per approved SIP and circuit diagrams with Kavach ready interface with networking for interfacing with Kavach Equipment in HOT standby mode as per RDSO specification no. RDSO/SPN/192/2019, Ver.2.0 with latest amendment and Special Instructions for Schedules & technical conditions at Station EI. It includes: Design and modification in existing IFC, ALC etc. of EI system, modification in the VDU (Video Display Unit), LCP (Local Control panel), interface, Maintenance terminal, Relay rack wiring, wiring & modification of Data Logger, connecting new racks to earthing & bonding. All the required materials (Interface cards/relays/wiring material/connectors/fuses/communication devices, power supply modules, material for earth connection etc.) shall be provided by the contractor. This also include Installation,wiring, Programming, testing (FAT & SAT) and commissioning of EI equipment supplied above including transportation from consignee depot to site as per original manufacturer's specifications & latest RDSO specification and supply of completion drawings and documents of 06 sets per station as per special condition of contract.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> () NS4-Supply & execution of miscellaneous Signalling Material							18717156.50	Above/ Below/Par
01	01	92.00	Numbers	3474.00	319608.00	AT Par	319608.00	
	<b>Description:-</b> Track relay QTA-2, Neutral track, 9 ohm, 2F, 1B contacts, front and back contacts metal to carbon, complete with plug-board, retaining clip and connectors conforming to BRS:939A,BRS:966 (Appendix F2), IRS:S 34 & IRS:S 23. The interlocking code for this unit shall be FGKX. Inspection by RDSO.							
02	02	78.00	Numbers	7080.00	552240.00	AT Par	552240.00	
	<b>Description:-</b> Relay, AC immune, Plug-in type, style QBCA1, DC biased point contactor, 24 V, 2F (HD). 4B contacts,front contacts (Heavy Duty) and back contacts metal to carbon complete with plug board, retaining clip and connectors conforming to BRS: 943, IRS: S34 & IRS: S 23-(as applicable). The interlocking code for this unit shall be BCEJK. Inspection by RDSO.							
03	03	13.00	Numbers	34500.00	448500.00	AT Par	448500.00	
	<b>Description:-</b> Supply and installation of rack mounted 48F FDMS fully loaded with suitable adapters, and splicing of Optic Fibre Cable (48 fibre) inside the FDMS with provision of taking out fibre of OFC as required. This includes supply of installation accessories (as required) as per Boards specification of TEC and advised by Railway's Engineer-at-site. This also includes End to End testing of all fibres of the optical fibre cable terminated between cable hut to cable hut of each station. Inspection by representative of Railway Engineer.							
04	04	2.00	Numbers	39800.00	79600.00	AT Par	79600.00	
	<b>Description:-</b> All in one network colour LED printer, MFC-L3735 CON (2-SIDE PRINTING) Dupelxing or Similar, Make: Brother. Inspection by representative of Railway Engineer.							
05	05	12.00	Numbers	5030.00	60360.00	AT Par	60360.00	
	<b>Description:-</b> Supply of Fire extinguisher CO2 type (capacity minimum 4.5 Kg or more) with IS marked. Inspection by representative of Railway Engineer.							
06	06	250.00	Square Foot	66.00	16500.00	AT Par	16500.00	
	<b>Description:-</b> Supply and fixing of flex printing for different type of plan etc.(star flex, high quality with board) or as advised by Railway's Representative. Inspection by Rep. of Railway Engineer.							
	07	12.00	Numbers	8197.00	98364.00	AT Par	98364.00	

**DYCSTE-C-RAIPUR-S AND T/SOUTH EAST CENTRAL RLY  
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07	<b>Description:-</b> Design & Preparation of SWR & GWR in English & Hindi for execution to be made by the contractor as per SECRly practice in conformity with GR, SR & SEM provisions and in accordance with CSTE/OL/GRC's circular No.3 of 1984 with the latest alterations & amendments based on IP (tentative/approved) (to be supplied by the Rlys. After approval of SWRs, 06 set of both SWRs shall be supply by contractor to Railway.						
08	08	6.00	Day	31860.00	191160.00	AT Par	191160.00
	<b>Description:-</b> Arrangement for commissioning of station for the work of non interlocking period at site such as provision of Two Tent, Four Table, Chair (8 no. in each Tent) in general. Drinking water and other amenity, Cap Umbrella Torch for 30 staff, Hand gloves for 6-8 staff and arrangement of one vehicle at each station for the work of NI period for required commissioning of station for the work of non interlocking period at site. lighting arrangements in tent, in the yard over point zone for proper working in the evening & night as required. If necessary, DG has to be arranged by the contractor on his own cost including diesel, lubricant oil etc. Necessary should be done as advised by site engineer. Note: The unit of this item should be treat as "Per Day for NI work" instead of Day.						
09	09	3.00	Numbers	494252.00	1482756.00	AT Par	1482756.00
	<b>Description:-</b> Supply of workspace make new modular control desk (Operational control desk for panel operation) or similar for 6 monitors (minimum 65" ), 2 operators and 1 module will be provided for storage make in SLAT system with side drawor. (i) Desktop made of 12 mm ASS + 25 MM MDF with properties like - high scratch resistances, seamiess joint, flammability class A, non-porous, (ii) structure- powder coated aluminium sturdy structure and extreme side aesthetic legs, (iii) shutter- 18 mm MDF, (iv) proper cooling aggregation for CPU cabinet, (v) side out CPU tray, (vi) ergonomic design considering proper leg space, (vii) all electrical components.						
10	10	6.00	Numbers	24870.00	149220.00	AT Par	149220.00
	<b>Description:-</b> Plain Storage Almirah, Model no.-STSTW000 (Large) or latest. Make: Godrej.Inspection by Rep. of Railway Engineer.						
11	11	31.00	Numbers	6222.00	192882.00	AT Par	192882.00
	<b>Description:-</b> Supply of FRP hinged point JB 10mm thick of size, 410 x 260 x150mm, weighing approx. 11.5 Kg. (+/- 10% in weight) as per RDSO spec no. RDSO/SPN/151/19917 made fire retardant GP resin with 25%-30% glass content including 2nos. 40 x 40 x 6 mm. FRP angle of 910 mm. length with provision for fixing of angle to the body of point JB & 5 Nos. ARA terminal fixed on FRP sheet and 2 Nos. GI/FRP bent pipe of 35mm dia. 2 Nos. extra half drilled holes which can be drilled finally at site if required to be provided on sides of the box andwith the provision of two support angles for erection purpose. Inspection by Rep. of railway engineer.						
12	12	3.00	Numbers	6000.00	18000.00	AT Par	18000.00
	<b>Description:-</b> Supply of VRLA battery 12V, 42 AH suitable for 25 watt VHF set. Inspection by Rep. of Railway engineer.						
13	13	18000.00	Numbers	11.00	198000.00	AT Par	198000.00
	<b>Description:-</b> Supply of ferrules of different colour, printing termination details/Functions in different colours as per Railway specification and installation in Relay room, Location Box and Power board etc, at stations and LC gates as per instruction of Engineer in charge. All materials required for the work shall be supplied by the contractor.						
14	14	3.00	Numbers	2850.00	8550.00	AT Par	8550.00
	<b>Description:-</b> Transportation, Installation, wiring and commissioning of 25 W VHF set with power supply arrangement and fixing of antenna. All material supplied by contractor like 50mm GI pipe (IS 1239 medium grade), concreting material and PVC conduit pipe.						
15	15	3.00	Numbers	105028.00	315084.00	AT Par	315084.00
	<b>Description:-</b> Transportation, installation and commissioning of workspace make new modular control desk.						
16	16	3.00	Each	148234.00	444702.00	AT Par	444702.00
	<b>Description:-</b> Tool Kit for single section digital axle counters as per "annexure" enclosed. Inspection by Rep. of Railway Engineer.						
17	17	100.00	Numbers	176.60	17660.00	AT Par	17660.00
	<b>Description:-</b> Supply of PPTC fuse (Polymeric positive temperature coefficientdevice) selfre- setting type having Trip current 2.0A to 2.2A. Make: TYCO/LITTLEFUSES/ FUZETEC/BOURN/RAYCHEM. Inspection by representative of Railway Engineer.						
18	18	1.00	Set	200125.00	200125.00	AT Par	200125.00
	<b>Description:-</b> Supply of Emergency Sliding Boom with all assessories. Make: Podnur S&T workshop or similar. Inspection by representative of CSTE/Con/BSP.						
19	19	1.00	Numbers	73467.00	73467.00	AT Par	73467.00
	<b>Description:-</b> Set of accessories suitable for Thermal labeler Ferrule Printing Machine. Print up to 36 mm TZe HGe, HSe laminated tapes width and 2.5 - 6.5 PVC Tubes, Speed Tube: 40mm/sec, Label: 60mm/sec, Resolution 360 dpi, No. Of Printable Lines Tube: 2 lines Label: 17 lines Auto and Half cut function, Selfreplaceable Tube cleaner, cutter and rollers, Twin-engine for tube and label Li-ion Battery (PA-BT-4000LI): 30 min QWERTY Keyboard, USB and WiFi connection with 36mm black on white 8m tape cassette and 100m blavk ink ribbon, AC adapter, Brother PT-E850TKW or similar. Make : BROTHOR or equivalent. Inspection by: Representative of Railway Engineer (Warranty Period : Upto 30 months from the date of supply)						
20	20	200.00	Numbers	176.60	35320.00	AT Par	35320.00
	<b>Description:-</b> Supply of PPTC fuse (Polymeric positive temperature coefficientdevice) selfre- setting type having Trip current 3.7A to 4.2A. Make: TYCO/LITTLEFUSES/ FUZETEC/BOURN/RAYCHEM. Inspection by representative of Railway Engineer.						
21	21	100.00	Numbers	176.60	17660.00	AT Par	17660.00

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			<b>Description:-</b> Supply of PPTC fuse (Polymeric positive temperature coefficient device) selfre- setting type having Trip current 6A. Make: TYCO/LITTLEFUSES/ FUZETEC/BOURN/RAYCHEM. Inspection by representative of Railway Engineer.				
	22	26.00	Numbers	23526.00	611676.00	AT Par	611676.00
22			<b>Description:-</b> Earthing and bonding system as per RDSO spec RDSO/SPN/197/2014, Ver.1.0 and as per latest RDSO TAN no.STS/S/E/TAN/3006 dt, 30.06.2025. Earthing and bonding system for Relay Room , IPS Room , SPD Box, Operator panel in SM's room, signalling equipments in Station building, Block circuit, SSDAC, etc. Inspection by RDSO. Supply of "Permanent and Maintenance Free Earth pits materials".1 Set PMF earth pit consisting of:- (i) 17 mm diameter and minimum 3 m long Copper Bonded Steel Rod - 1No (ii) GEM- 25 lb - 3 Bags (iii) 25*6*150 mm Cu Bus Bar- 2 No (iv) Cu lugs and nut bolt 2 nos. (v) Supply for Connection between Earhpits and MEBB It includes 35 sq mm multi-strand pvc insulated single core Cu cable (15 mtr Lump Sum). (vi) Supply for Internal connection from MEBB To SEBB and to other equipments.(50 mtr Lump Sum). It includes 16 sq mm and 10 sq mm multi strand pvc insulated single core Cu cable.				
23	23	26.00	Numbers	5882.00	152932.00	AT Par	152932.00
			<b>Description:-</b> Installation, testing and commissioning of Permanent and Maintenance Free Earth pits.				
	24	700.00	Metre	1246.00	872200.00	AT Par	872200.00
24			<b>Description:-</b> Supply and Fixing of Perforated GI pipes of 100 mm dia for entry of cable on girder bridges, RCC bridges, drains, culverts, rocky places, tunnels/ deep cuttings or at places asadvised by the engineer in charge of the work. This includes trenching upto the required depth as decided by the Engineer at site and making holes of 5 mm dia (approx.) at 20 cm intervals on the GI pipe. The pipes are to be fixed on the girder bridge by suitable bridge fixtures at an interval of 1.0 mts. (min) or directives of Railway Engineer. On RCC/masonry bridges or in rocky places, if required the entire length of the pipe is to be concreted up to a height of 100mm above the pipe. GI pipe shall be TATA or Jindal make.				
	25	1650.00	Metre	1080.00	1782000.00	AT Par	1782000.00
25			<b>Description:-</b> Track crossing, Road Crossing by pushing method (HDD method) at culverts/ track / pucca road crossing at a depth not less than 1 meter with reference to bottom of rail/road surface including supply of HDPE pipe. HDPE pipe (4 inch dia).				
	26	300.00	Metre	2246.00	673800.00	AT Par	673800.00
26			<b>Description:-</b> Track crossing, Road Crossing by pushing method (HDD method) at culverts/ track / pucca road crossing at a depth not less than 1 meter with reference to bottom of rail/road surface including supply of GI pipe. GI pipe with 76 mm dia, Spec. No. -1239 medium grade.				
	27	6.00	Numbers	24750.00	148500.00	AT Par	148500.00
27			<b>Description:-</b> Stainless steel stand for Visual Display Unit for Electronic Interlocking. Inspection by Rep. of Railway Engineer.				
	28	370.00	Kg	59.00	21830.00	AT Par	21830.00
28			<b>Description:-</b> Wire IG 8 SWG for Bonding. Insp. by : Rep. of Railway Engineer.				
	29	160.00	Sqm	844.00	135040.00	AT Par	135040.00
29			<b>Description:-</b> Supply and laying of ESD safe flooring at EI room. Homogeneous anti static composition with black conductive layer sandwiched between two anti static layers. Thickness:2mm plus, Self fire extinguishing, Less than 0.1% Water absorption At room temperature for 24 hours.Electric Properties: 1. Surface Resistivity : 10 to the power of 6 to10 to the power of 9 ohms/sq. 2. Decay time of Less than 2 seconds Make : POLY FLOOR or similar. Inspection by Rep. of Railway Engineer.				
	30	5000.00	Kg	199.00	995000.00	AT Par	995000.00
30			<b>Description:-</b> Supply and installation of Tie bar fencing around S&T apparatus case or building / office etc as per drawings attached with tender. All materials required for the work shall be supplied by the contractor.				
	31	7.00	Numbers	54280.00	379960.00	AT Par	379960.00
31			<b>Description:-</b> Supply ,installation, testing & commissioning of MAPLE 4C of equivalent 1U,19 inch rack mountable device consisting of four E1 ports and three slots and one populated with 2W/4W E&M supporting up to eight interfaces, balance two slots empty, unit shall support both 230 volt AC/48V DC power supply including 50 pin cable one number. Make MROTEK/REALTIME/CYGNUM/CISCO or similar. Accepted make and model: MROTEK MAPLE/4C/4E1/AC(V4) & MAPLE/4/M/8 ( Warranty Period : Upto 30 months from the date of supply). Inspection by representative of Railway Engineer.				
	32	26.00	Numbers	17782.00	462332.00	AT Par	462332.00
32			<b>Description:-</b> Supply and Installation of OFC joint enclosure and splicing of Optic fiber cable (48 fibres) and testing as per technical Specification No. GROJC- 2/02 sept 2003. Supply of splice enclosure (48 fiber) shall be as per Boards specification of TEC. All materials including fusion splicing machine used for fiber splicing and OTDR for testing and other testing materials if any shall be arranged by the contractor.				
	33	3.00	Numbers	1995.00	5985.00	AT Par	5985.00
33			<b>Description:-</b> Supply of PA Microphone make Ahuja ASM-580LXR or similar as per following spec.Freq.Resp.: 50- 16000Hz;Sensitivity: 2mV/Pa;Impedence: 300.; Supplied with quick detachable holder with 3 Pin professional XLR connector & 10 Mtrs. Twin core shielded low noise cable. Inspection by Rep. of Railway Engineer.				
	34	3.00	Numbers	52911.00	158733.00	AT Par	158733.00
34			<b>Description:-</b> Supply, installation and commissioning of Online pure sine wave UPS of 1 KVA with SMF batteries of EXIDE/ AMCO/ SF/AMAR RAJA/AMRON for backup of 2 hrs (1600 VAH minimum) AVR for single phase AC, 160V to 280V input. The required specifications are Online, pure sine wave UPS of 1KVA of make APC/Uniline. Inspection by Rep. of Railway Engineer.				
	35	3.00	Numbers	6900.00	20700.00	AT Par	20700.00
35			<b>Description:-</b> Supply and fixing 9U Wall mount rack (dimension DxWxH 450x550x367mm) steel encloser with 1 cable manager,1 power strip 6x5Amp,1Fan front glass door with lock & Key rear door,side openable Make(APW/VALRACK/NETRACK). Inspection by Rep. of Railway Engineer.				



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36	36	6.00	Numbers	5995.00	35970.00	AT Par	35970.00	
	<b>Description:-</b> Supply of PA Horn Speaker make Ahuja AMH-402T or similar as per following spec.:Input power: 40W RMS; Power; Power Taps: 40/20/10/5W on 100V; Impedence: 250/500/1k/2k;Freq.Resp.: 120- 16000 Hz; SPL at 1kHz 98dB/40W/1m; 114dB/40W/1m.; Dim: W370xH250xD300mm; AVS(UV protected); Wt.:6.5kg. Inspection by representative of Railway Engineer.							
37	37	25.00	Numbers	186.00	4650.00	AT Par	4650.00	
	<b>Description:-</b> Supply of OFC Patch Cord with Connectors as per site requirement,10 Mtrs long. Inspection by representative of Railway Engineer.							
38	38	3.00	Numbers	159300.00	477900.00	AT Par	477900.00	
	<b>Description:-</b> Supply of 8 Port Router (02* 10/100/1000 LAN + 08*02 Mbps (V 35) WAN +08*02 Mbps (G703) Port: 300 Kbps) % A0 % A0 with 8 DTE Cable. Make:- CISCO2911 or 2921 K9 or % A0 juniper or HP with Similar Specifications. Accepted make: CISCO (Warranty Period : Upto 30 months from the date of delivery.) Inspection by representative of Railway Engineer.							
39	39	3.00	Numbers	46031.00	138093.00	AT Par	138093.00	
	<b>Description:-</b> Supply of Layer 2 manageable 24 port switch with all power cords, data cords, power supply,stacking cable, 1G network module, 1000 Mbps single mode rugged SFP 4Nos. &other accessories & software as per RDSO/SPN/TC/ 83/2020 Rev. 2.0 or later as per CISCO WS 2960 X24 TS-L or similar model of Juniper, Alcatel, MROTEK etc (Warranty Period: Upto 12 months from the date of delivery) Inspection by representative of Railway Engineer.							
40	40	6.00	Set	224958.00	1349748.00	AT Par	1349748.00	
	<b>Description:-</b> Supply of 2MB modem having( V.35+ G.703) operating with AC and -48 v DC. Make : ROTEK/RAID/ATRIE/SIMILAR, Make Indigenous. Inspection by representative of Railway Engineer.							
41	41	56.00	Kilometre	76811.00	4301416.00	AT Par	4301416.00	
	<b>Description:-</b> Supply of 40 mm diameter permanently lubricated HDPE telecom: ducts (with chord) as per RDSO SPEC.No. RDSO/SPN/TC/15/2013 Rev. 2.0 with latest amendments or Latest in length of 1000mtrs/roll for each km. of HDPE duct following item are to be supplied (a) end plugs- 2nos. (b) cable sealing plugs-2 nos .(c) plastic couplers slip fit /pushfit type - 2 nos.(d) end caps to be provided along with drum- 2 nos.Colors advised for pipe is 50% bright Orange & 50% bright Green. The following materials are to be supplied with every lot of 10 km (i) Rotary duct cutter - 1no.(ii) C spanner - 1no. (iii) Chamfering tool - 1no.Inspection by RITES.							
42	42	276.00	Numbers	3036.00	837936.00	AT Par	837936.00	
	<b>Description:-</b> Low maintenance lead acid stationary secondary cells for S&T installations made of PPCP container and with initial charging of nominal voltage 2 volts as per Specn.No.IRS-S-88/2004 with latest amd. Inspection by RDSO.							
43	43	3.00	Numbers	30450.00	91350.00	AT Par	91350.00	
	<b>Description:-</b> Supply of Digital Platform double sided clock with GPS synchronization as per RDSO specification no. RDSO/SPN/TC/ 62/ 2008 Rev 3.0 with latest amendment along with OEM test certificate and two years warranty. Inspection by RDSO.							
44	44	3.00	Numbers	1522.50	4567.50	AT Par	4567.50	
	<b>Description:-</b> Installation Testing & Commissioning of Digital Platform double sided clock with GPS synchronization as per RDSO specification no. RDSO/SPN/TC/ 62/ 2008 Rev 3.0 with latest amendment. The work is to be executed as per the instruction of railway site engineer.							
45	45	1.00	Numbers	79535.00	79535.00	AT Par	79535.00	
	<b>Description:-</b> Supply of supervisory console (PC, Make: HP/Samsung/Dell & printer) with one set of table and chair for data logger/RTU for online tracking and monitoring of station position as per "Annexure" enclosed. Inspection by Rep. of Railway Engineer.							
46	46	4.00	Numbers	9440.00	37760.00	AT Par	37760.00	
	<b>Description:-</b> Supply of 24F fully loaded FMS/LIU to suit EI system(Complete with 24 nos. 0db adaptor and 24 nos. 1m length Pigtails and 6 nos. 1m Pigtail on spare. All are ""SC"" type connectors). Inspection by Rep. of Railway engineer.							
47	47	5.00	Set	3557.00	17785.00	AT Par	17785.00	
	<b>Description:-</b> Dismantling of Sliding barrier.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> () NS5-Supply & execution of MSDAC, LED & IPS							29385309.00	Above/ Below/Par
01	01	70.00	Numbers	338629.00	23704030.00	AT Par	23704030.00	
	<b>Description:-</b> Supply of MSDAC complete system with all accessories consisting of complete indoor and outdoor equipment including remote diagnostic and monitoring system as per RDSO Specification no. RDSO/SPN/176/2013 Ver.3 with the latest amendment/ revision of required Track Sections as per SIP for stations. Inspection by RDSO. Here Numbers unit stands for Per DP.							
02	02	70.00	Numbers	2117.00	148190.00	AT Par	148190.00	
	<b>Description:-</b> Design, Transportation, Installation, testing and commissioning of MSDAC complete system with all accessories consisting of complete indoor and outdoor equipment including remote diagnostic and monitoring system as per RDSO Specification no. RDSO/SPN/176/2013 Ver.3 with the latest amendment/ revision of required Track Sections as per SIP. Here Numbers unit stands for Per DP.							
03	03	79.00	Numbers	5917.00	467443.00	AT Par	467443.00	
	<b>Description:-</b> LED Route Signal lighting Unit 110 V AC, Retrofittable in existing CLS Housing andcompatible with AC led ECR/ACconventional ECR as per RDSO Specification No. RDSO SPN/153/2023 (Rev.5.0) or latest. Inspection by RDSO.							

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04	04	27.00	Numbers	7055.00	190485.00	AT Par	190485.00	
	<b>Description:-</b> LED Calling ON Signal lighting unit 110VAC retrofittable in existing CLS housingand compatible with AC LED ECR/ACconventional ECR as RDSO Specn. No.RDSO/SPN/153/2023 (Rev.5.0) or latest.Inspection by RDSO.							
05	05	93.00	Numbers	5917.00	550281.00	AT Par	550281.00	
	<b>Description:-</b> LED Shunt Signal lighting 110 V AC Retrofittable in existing CLS Housing and compatible with AC Led ECR/AC Conventional ECR as per RDSO Specification No. RDSO/SPN/153/2023 (Rev.5.0) or latest. Inspection by RDSO.							
06	06	3.00	Numbers	1195600.00	3586800.00	AT Par	3586800.00	
	<b>Description:-</b> Integrated Power Supply for Distributed EI in RE area as per RDSO Specification No. RDSO/SPN/165/2023 (Ver.4.0) Amendment 1.0 or latest with low maintenance secondary cell (110V, 200AH x 2) as per specification No. IRS: S-88/2004 without wooden stand for battery. Capacity and quantity of different modules should be as per approved Line diagram. Supervision, Installation and Commissioning as per RDSO guidel ines letter No. STS/E/IPS/Gen, dt. 01.04.2008. Including supply of necessary Tool Kits as per RDSO spec. and Annexure. (Warranty Period : Upto 30 months from the date of supply). Inspection by RDSO.							
07	07	2.00	Numbers	324240.00	648480.00	AT Par	648480.00	
	<b>Description:-</b> Supply of Electric Generater Set 15KVA Single Phase, Kirlosskar Green Air Cooled Genset with Rated output at 1500 rpm-24bhp, Maximum recommended Genset rating at 0.8pf-15KVA/12KWwith representation Dimension 2240X82X1385 mm and weighing 1050 Kg approximately or latest or similar. Inspection by RITES.							
08	08	2.00	Numbers	44800.00	89600.00	AT Par	89600.00	
	<b>Description:-</b> Transportation, Installation, Testingand commissioning of the Electric Generator Set.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> () NS6-Supply and Execution of AFDAS and LPS.							7755744.00	Above/ Below/Par
01	01	3.00	Numbers	587502.00	1762506.00	AT Par	1762506.00	
	<b>Description:-</b> Supply, Installation and commissioning of Lightning Protection System, Class A as per RDSO TAN-3006, Ver.3.1 Or latest, IS/IEC62305 and NBC 2016 at Central main building. Note: 1) Rate includes supply, transportation, installation, testing, commissioning, Design & Drawing, training of railway officials, spare materials as per RDSO norms, Guarantee/Warrantee period, post commissioning maintenance period (12 Months) etc. 2) Tenderer must submit separate Annexure sheet along with his offer duly indicating name of items, quantities, spare quantities, rates & inspection clause (RDSO, RITES etc.) against each supplied item. 3) Layout & elevation plan duly indicated Size of building to be enclosed. 4) Offer shall be included with all taxes. 5) All materials required for installation, testing & commissioning of LPS shall be supplied by tenderer. No materials shall be given from Railway store against above work. 6) If, tenderer is not OEM then he should submit authorization from OEM to supply, supervision for installation and support for maintenance etc. after award of the tender. 7) Installation, testing and commissioning of PLS shall be supervised by OEM/OEM authorized engineer.							
02	02	3.00	Numbers	178500.00	535500.00	AT Par	535500.00	
	<b>Description:-</b> Supply of Microprocessor based Networkable Analogue Addressable up to 64 nodes 1Loop Fire Alarm Control panel with LCD display, the panel should be equipped with sufficient nos. of loop as per RDSO Specification No. RDSO/SPN/217/2025 ver 3.1 or latest. Each loop shall have capacity of 127 analogue addressable devices in 1 loop, the panel shall have sufficient nos. of programmable relay control for controlling AHU's, pressurisation fans,ventilation fans at fire pump room, monitoring of fire sprinkler & sealed lead acid batteries sufficient for 24Hours normal working & then capable of operating the system for 24 Hours during Emergency conditions as required. The panel shall have provision of connectivity of BACNET/MODBUS/LONWOK/TCP-IP The panel shall have dedicated RS232 serial port for direct PC or MODEM connection, optional remote printer as per RDSO Specification No. RDSO/SPN/217/2025 ver 3.1 or latest. Inspection by-RDSO. It include supply of standard tools kit for maintenance and testing at each station which includes temperature gun(hot air gun).							
03	03	3.00	Numbers	1454.00	4362.00	AT Par	4362.00	
	<b>Description:-</b> Supply of Batteries for power backup for fire alarm control panel to be installed at site. Inspection by RDSO.							
04	04	3.00	Numbers	24494.00	73482.00	AT Par	73482.00	
	<b>Description:-</b> Supply of GSM module (to be pre installed in Fire Alarm Control Panel) suitable to send SMS to mobile etc as per RDSO Spec No. RDSO/SPN/217/2025 Version 3.1 or latest Inspection by-RDSO.							
05	05	120.00	Numbers	5516.00	661920.00	AT Par	661920.00	
	<b>Description:-</b> Supply of intelligent Analogue Addressable Multi-Sensor type smoke detector with inbuilt fault isolator and integral response indicator with 360 degree viewing angle. Detector should have unique address for communication and assigned through panel with mounting base as required with the protection category of IP 40, All items as per RDSO Specification No. RDSO/SPN/217/ 2021 ver 3.1 or latest. Inspection by-RDSO.							
06	06	5.00	Numbers	5222.00	26110.00	AT Par	26110.00	
	<b>Description:-</b> Supply of Analogue Addressable Manual Call Point with integral short circuit isolator, Analogue addressable protocol having status LED for alarming & standby mode, Electronically addressed as per RDSO Specification No. RDSO/SPN/217/2025 ver 3.1 or latest. Inspection by RDSO.							
07	07	3.00	Numbers	10628.00	31884.00	AT Par	31884.00	
	<b>Description:-</b> Supply of audio-Visual Sounder cum beacon (Hooter & Flasher in single unit) asper RDSO Specification No. RDSO/ SPN/217/2025 ver 3.1 or latest Inspection by-RDSO.							
08	08	600.00	Metre	816.00	489600.00	AT Par	489600.00	

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09	<b>Description:-</b> Supply of Linear Heat Sensing LHD Tube as per RDSO Specification No. RDSO/SPN/217/2025 ver 3.1 or latest. Inspection by-RDSO.							
	09	3.00	Numbers	116450.00	349350.00	AT Par	349350.00	
10	<b>Description:-</b> Supply of LHD interface module as per RDSO Specification No. RDSO/SPN/217/2025 ver 3.1 or latest Inspection: Inspection by RDSO.							
	10	6.00	Numbers	4358.00	26148.00	AT Par	26148.00	
11	<b>Description:-</b> Supply of Additional Monitor Modules for LHD interface Module to connect with Control Panels (Fire & Fault Indication) as per RDSO Specification No. RDSO/SPN/217/2025 ver 3.1 or latest Inspection: Inspection by RDSO.							
	11	3.00	Numbers	194565.00	583695.00	AT Par	583695.00	
12	<b>Description:-</b> Supply of Air Sampling Type detector shall use LASER type. This type of detector shall use piping or tubing distribution network that shall run from the detector to the area as to be protected, as per RDSO Specification No. RDSO/SPN/217/2025 ver 3.1 or latest Inspection: Inspection by-RDSO.							
	12	15.00	Numbers	4358.00	65370.00	AT Par	65370.00	
13	<b>Description:-</b> Supply of Additional Monitor Module for ASD as per RDSO Specification No. RDSO/SPN/217/2025 ver 3.1 or latest inspection: Inspection by- RDSO.							
	13	3.00	Set	4865.00	14595.00	AT Par	14595.00	
14	<b>Description:-</b> Clamps for ASD CPVC pipe installation, inspection by Consignee.							
	14	120.00	Metre	654.00	78480.00	AT Par	78480.00	
15	<b>Description:-</b> Supply of CPVC Pipe with its accessories like elbow, T, etc. for Aspirating type Smoke Detection System as per RDSO Specification No. RDSO/SPN/217/2025 ver 3.1 or latest Inspection by Consignee.							
	15	600.00	Metre	157.00	94200.00	AT Par	94200.00	
16	<b>Description:-</b> Supply of FRLS unarmoured- (2Cx1.5 sq.mm) with all accessories for connection of all Fire Alarm devices as per RDSO Specification No. RDSO/SPN/217/2025 ver 3.1 or latest Inspection: Inspection by RDSO.							
	16	3.00	Numbers	17377.00	52131.00	AT Par	52131.00	
17	<b>Description:-</b> Power Supply with battery charger & batteries for backup for ASD/LHD- with special enclosure for installation. Inspection by consignee.							
	17	300.00	Metre	118.00	35400.00	AT Par	35400.00	
18	<b>Description:-</b> PVC pipe 25mm and accessories required for installation. Inspection by Consignee.							
	18	3.00	Set	366068.00	1098204.00	AT Par	1098204.00	
19	<b>Description:-</b> Supply of GUI Software to monitor health of detector and other devices along with Control Panel. The software shall be accessible over TCP/IP as per RDSO Specification No. RDSO/SPN/217/2025 ver 3.1 or latest Inspection: Inspection by- RDSO.							
	19	3.00	Numbers	28886.00	86658.00	AT Par	86658.00	
20	<b>Description:-</b> TCP/IP Module (1 No required for each fire alarm control panel) as per RDSO Specification No. RDSO/SPN/217/2025 ver 3.1 or latest Inspection: Inspection by RDSO,							
	20	3.00	Numbers	28886.00	86658.00	AT Par	86658.00	
21	<b>Description:-</b> Supply of USB Converter for GUI Software interfacing (2 Converter required for GUI Software license) as per RDSO Specification No. RDSO/SPN/217/2025 ver 3.1 or latest Inspection: Inspection by- RDSO.							
	21	3.00	Numbers	411230.00	1233690.00	AT Par	1233690.00	
22	<b>Description:-</b> Supply of Industrial grade Server PC of monitor size 42" with license version of Windows 11 OS/Latest duly. PC should be installed with Windows Server 2016 or above, SQL server 2019 standard edition license, IIS7.0 or above. Inspection by Consignee.							
	22	2.00	Lumpsum	34000.00	68000.00	AT Par	68000.00	
23	<b>Description:-</b> Personal Training of AFDAS system for its operation and 1st and 2nd level maintenance to railway staff at site during testing & commissioning of the system. Time duration 1 day Max.							
	23	3.00	Set	99267.00	297801.00	AT Par	297801.00	
01	<b>Description:-</b> Installation & commissioning Charges (shifting of material from railway store to installation site & installation material like PVC pipe, tie, screw & fastener etc. to be provided by contractor/Client, as per site requirement.). Inspection by Consignee.							
	01	2.00	Job	2362080.00	4724160.00	AT Par	4724160.00	
<b>S.No.</b>							<b>Item Code</b>	<b>Item Qty</b>
							<b>Qty Unit</b>	<b>Unit Rate</b>
							<b>Basic Value</b>	<b>Escl.(%)</b>
							<b>Amount</b>	<b>Bidding Unit</b>
<b>Schedule</b> () NS7-Modification to existing Centralized Electronic Interlocking system for closure of LC gate at Rajim and Kendri)							4724160.00	Above/Below/Par
							01	2.00
							<b>Description:-</b> Modification/Alteration in existing Centralized Electronic Interlocking system for closure of LC gate as per approved SIP at Rajim station (Kyosan Make) & Kendri station (Hitachi Make) with Kavach ready interface. This includes- (1) Wiring material and other accessories for the installation. (2) Re-designing of EI system- Application & Interface circuits to suite the approved signalling plan. (3) Alteration to the MT and VDU software. (4) FAT (Factory Acceptance Test), SAT and commissioning as per the Modified Application Logic. (5) Submission of As made documents in CD as soft copy and paper print in A3 size.	
<b>S.No.</b>							<b>Item Code</b>	<b>Item Qty</b>
							<b>Qty Unit</b>	<b>Unit Rate</b>
							<b>Basic Value</b>	<b>Escl.(%)</b>
							<b>Amount</b>	<b>Bidding Unit</b>
<b>Schedule</b> () NS8-NON-SOR-Supply of Tools Kit.							2833319.00	Above/Below/Par
Please see Item Breakup for details.					2833319.00	AT Par	2833319.00	

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<b>Description:-</b> Supply of Tools Kit as per IRSEM pre-commissioning checklist item 10 (g) issued by PCSTE letter no. SECR/S&T/Tools/Tech-Sig./250 dated 18.5.2022. Inspection by Rep. of Railway Engineer.								
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> () NS9-Modification, Supply & execution of Siemens RRI							6995311.72	Above/ Below/Par
01	01	2000.00	Numbers	18.70	37400.00	AT Par	37400.00	
	<b>Description:-</b> Circuit wiring/ Jumpering as per circuit diagram in the relay rack / IDF/ Tag block.This include preparation of jumper sheet by wireman duly checked by firm's site supervisor and wire to wire testing as per circuit diagram. Any wrong jumper done by wireman will not be paid and correction shall be made free of cost. Jumper wire will be supplied by Railway. Good quality resin wire core to be supplied by the contractor for soldering of jumper wires. Soldering of jumper wires to be done after completion of testing of Railways. Here Number unit stands for Per Jumper.							
02	02	6.00	Numbers	276.00	1656.00	AT Par	1656.00	
	<b>Description:-</b> Signal number plates Drg. No. RST-11393. Inspection by rep. of Railway Engineer.							
03	03	6.00	Numbers	75551.00	453306.00	AT Par	453306.00	
	<b>Description:-</b> Supply of Route Group (Ref: IRS: S-46). Siemen Make (No RSSK 31/0002) without base plate. Inspection by RDSO.							
04	04	6.00	Numbers	66050.00	396300.00	AT Par	396300.00	
	<b>Description:-</b> Supply of 2 Aspect signal group (Ref: IRS:S-46) Siemens make type only as per spec No A-RTRG-A- 066 suitable for LED signal with out base plate. Inspection by RDSO.							
05	05	100.00	Numbers	540.00	54000.00	AT Par	54000.00	
	<b>Description:-</b> Supply of Base Plate suitable for Mini Relay Group (Simense) Inspection by Rep. of Railway Engineer.							
06	06	18.00	Numbers	10768.00	193824.00	AT Par	193824.00	
	<b>Description:-</b> Supply of Base Plate suitable for Major/Minor Relay Group (Simense) Inspection by Rep. of Railway Engineer.							
07	07	50.00	Numbers	92.00	4600.00	AT Par	4600.00	
	<b>Description:-</b> Supply of indicative type fuse & fuse insert. (a) With holder 1.6A ( System,Rapid, Malnad ma or similar). Inspection by Rep. of Railway Engineer.							
08	08	1.00	Job	8298.00	8298.00	AT Par	8298.00	
	<b>Description:-</b> Errection of Racks with scaffolding arrangement, Cable Termination Rack (CTR) and Intermediate Distribution Frame (IDF) complete in all respect with suitable grouting arrangement, including cable carrying ladders for indoor and out door cables, supporting strips for fixing Resistances, Condensers, Time Relays, Transformer units for 3- phase/ single phase point group, string rod for wire support. It includes planning of the placements of Relay racks and all other related accessories.							
09	09	10.00	Numbers	10923.00	109230.00	AT Par	109230.00	
	<b>Description:-</b> Supply of Time Element Relay (Clock work type) AG timer or Synchronous timer Siemens Make (No. RSSK 30/0052) with timer range upto120 seconds. Inspection by RDSO.							
10	10	12.00	Numbers	6653.81	79845.72	AT Par	79845.72	
	<b>Description:-</b> Supply of Relay plug in type Style universal, LED ECR mini group type A-RT-RG-A064 of Siemens make complete with base plate. Inspection by RDSO.							
11	11	15.00	Numbers	735.00	11025.00	AT Par	11025.00	
	<b>Description:-</b> Transportation, fixing & commissioning of different type of Dominos complete with button.							
12	12	20.00	Numbers	35280.00	705600.00	AT Par	705600.00	
	<b>Description:-</b> Cost for Change in number of Routes and corresponding change in Relay Room wiring due to change in Signalling Plan subsequent to the submission of circuits to Railways for approval.							
13	13	20.00	Numbers	11158.00	223160.00	AT Par	223160.00	
	<b>Description:-</b> Supply of Relay plug-in- type, mechanically interlocked, DC neutral line, 60V in mini group housing contain two miniature identical relays, with contact configuration 4F-4B metal to metal Siemens make with base plate of same make,conforming to IRS:S-46 and firm's specification. Inspection by RDSO.							
14	14	50.00	Numbers	23.40	1170.00	AT Par	1170.00	
	<b>Description:-</b> Supply of indicative type fuse & fuse insert. (b)With holder 0.6A ( System,Rapid, Malnad make or similar). Inspected by Rep. of Railway Engineer.							
15	15	1.00	Job	50579.00	50579.00	AT Par	50579.00	
	<b>Description:-</b> Fixing, wiring and soldering of Mini Group Bases, ECRs, Route Group Bases, Point Group Bases, Chain Group Bases, Signal Group Bases, Shunt Signal Group Bases, Time Relays, Track Repeater Relay Bases etc. after sizing paring and dressing of indoor cables at each Relay Bases. Preparation wiring and soldering of inter wire group at point group bases.							
16	16	1.00	Job	10669.00	10669.00	AT Par	10669.00	
	<b>Description:-</b> Sizing, grouping, dressing, terminating and soldering of indoor cable cores at CTR Tag Blocks, fixing, wiring and soldering of 4 pole , ON-OFF switches, resistances, condensers, transformer units etc. in their respective position, jumpering, terminating dressing and soldering of jumpers at CTR tag blocks.							
17	17	1.00	Job	49787.00	49787.00	AT Par	49787.00	
	<b>Description:-</b> Grouping, sizing, dressing and soldering of indoor cable cores at IDF Tag block and at Control Panel and Operational Panel Tag block (left over portion at RRI Relay room and redoing of existing work after complete testing), continuity testing of indoor cables cores between IDF to concerning Relay control and operation panel tag block to IDF tag block, IDF to Data Logger, IDF to IDF of two Relay Rooms etc.							

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18	18	1.00	Job	13434.00	13434.00	AT Par	13434.00	
	<b>Description:-</b> Fixing and wiring of fuse assembly complete.							
19	19	1.00	Job	331914.00	331914.00	AT Par	331914.00	
	<b>Description:-</b> Jumpering and wiring among IDF tag block as per approved wiring diagram including wiring related to block working.							
20	20	1.00	Job	8693.00	8693.00	AT Par	8693.00	
	<b>Description:-</b> Dressing and Lacing IDF Jumpers, soldering of jumpers at IDF Tag Block.							
21	21	1.00	Job	16596.00	16596.00	AT Par	16596.00	
	<b>Description:-</b> Lettering/Nomenclature of complete indoor particulars (RRI).							
22	22	1.00	Job	10273.00	10273.00	AT Par	10273.00	
	<b>Description:-</b> Testing and commissioning (RRI) 1Wire/2Wire Checking.							
23	23	1.00	Job	55319.00	55319.00	AT Par	55319.00	
	<b>Description:-</b> Various functional testing after energizing of relays as per approved wiring diagram through simulation testing. Testing of various out door gears from CTR. (Note-For simulation testing simulation panel should be supplied by the contractor at their own cost as required) (RRI).							
24	24	1.00	Job	55319.00	55319.00	AT Par	55319.00	
	<b>Description:-</b> Contact testing (RRI).							
25	25	1.00	Job	55319.00	55319.00	AT Par	55319.00	
	<b>Description:-</b> Final testing and commissioning (RRI).							
26	26	1.00	Job	12644.00	12644.00	AT Par	12644.00	
	<b>Description:-</b> Laying, Dressing, Lacing, Termination of main outdoor signal cables at CTR complete matching of cable with existing CTR including fixing of ladder for carrying signal cables. (RRI)							
27	27	3.00	Kilometre	6014.00	18042.00	AT Par	18042.00	
	<b>Description:-</b> Cable PVC insulated single core unsheathed with plain annealed copper conductor as per the colour coding scheme of Railways. Spec. no: IRS-S-76/89 with latest ammendment. Inspection by RDSO. Jumper wires : 1x1mm Dia. ( In combination of colours as desired by Railways)							
28	28	1.00	Job	124857.00	124857.00	AT Par	124857.00	
	<b>Description:-</b> Cutting of indoor cables (left over portion at RSD/RRI new Relay room and redoing of existing work after complete testing) in sizes paring meggering continuity testing laying between IDF to concerning Relay bases to CTR control panel and operation panel to IDF, IDF to Data logger, IDF to IDF of two/ same relay rooms, lacing and dressings. (RRI)							
29	29	1.00	Kilometre	239474.00	239474.00	AT Par	239474.00	
	<b>Description:-</b> Supply of PVC indoor cable 24x1 mm dia having colour coding of insulation of inner core shall be six colours viz. Blue, Red, Grey, Green, Brown & Black and shall be confirming to RDSO specification IRS:S:76/89 with latest amendments. Inspection by RDSO.							
30	30	8.00	Numbers	30777.00	246216.00	AT Par	246216.00	
	<b>Description:-</b> POINT CHAIN GROUP SIEMENS MAKE TYPE RSSK 3515/3 WITHOUT BASE PLATE. Inspection by RDSO.							
31	31	70.00	Numbers	8503.00	595210.00	AT Par	595210.00	
	<b>Description:-</b> RELAY MINI GROUP PLUG IN TYPE CONSISTING OF 2 NOS K50 NEUTRAL RELAYS NON AC IMMUNISED 4F/4B WITH BASE PLATE SIMENS make TYPE RSSK 30/0011. Inspection by RDSO.							
32	32	8.00	Numbers	96956.00	775648.00	AT Par	775648.00	
	<b>Description:-</b> RRI POINT GROUP SIEMENS MAKE TYPE RSSK 3515/19 WITHOUT BASE PLATE. Inspection by RDSO.							
33	33	3.00	Numbers	50422.00	151266.00	AT Par	151266.00	
	<b>Description:-</b> Shunt Signal Group type RsSK/3525/67, compatible to LED lamp. Inspection by RDSO.							
34	34	2.00	Numbers	41968.00	83936.00	AT Par	83936.00	
	<b>Description:-</b> Supply of Relay rack assembly complete with scaffolding, fixtures and accessories including MSbars for fixing of relay, plug board, string rods, fuse strips with bracket, 11 way Bus bars with cover and mounting brackets, run way for cable/wires, frame, base assembly etc. Siemens' type & as per extant practice on SEC.Rly. Inspection by Rep. of Railway Engineer.).							
35	35	1.00	Station	1550000.00	1550000.00	AT Par	1550000.00	
	<b>Description:-</b> System integrity test of interlocking system for PI/RRI station to be tested by M/s Efftronics concerned company person. This includes customization of software and conducting tests the station yard route indication, sequence and validation the square sheet test. Note: This includes the supply of microprocessor based relay driver (1 no.) for SIT controlling 512 relays or more as per site requirement & supply of SIT console unit (1 no.) as per specification mentioned below: These testing equipments shall be taken back after completion of the testing process. SIT console unit:- LAPTOP with intel core 2 duo or higher, Make: Dell, 4GB RAM, 320 GB, Hard Disk, DVD writer, USB Key Board, USB optical, Scroll Mouse, USB to 232 converters : 3 Nos., Windows 10 Professional OS, Kaspersky Anti Virus, ON Line UPS : 1 KVA with 60 Minutes back up (For utility to the Relay Driver). From 201 to 500 routes.							
36	36	1.00	Station	90000.00	90000.00	AT Par	90000.00	
	<b>Description:-</b> Supply of wire & wiring from panel button relays to the relay driver for 512 relays or as per site requirement for conduction of system integrity test of PI/RRI as per directive of Railway Representative of Railway Engineer.							
37	37	20.00	Numbers	23.00	460.00	AT Par	460.00	
	<b>Description:-</b> Panel Fuses 16A D-Type. Inspection by Rep. of Railway Engineer.							
	38	50.00	Numbers	19.00	950.00	AT Par	950.00	

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38	<b>Description:-</b> Panel Indication Lamp. Inspection by Rep. of Railway Engineer.						
39	39	3.00	Numbers	6556.00	19668.00	AT Par	19668.00
39	<b>Description:-</b> Lamp Proving Relays for Off aspect compactible to LED lamp type RsSK30/0014. Inspection by RDSO.						
40	40	8.00	Numbers	6843.00	54744.00	AT Par	54744.00
40	<b>Description:-</b> Key Lock Unit with 2 Nos. of Neutral Relay. Inspection by RDSO.						
41	41	10.00	Numbers	9488.00	94880.00	AT Par	94880.00
41	<b>Description:-</b> Supply of Relay Non-A Cimmune, plug-in-type, DC Neutral Line 60V4F/4B, 5F/3B, 6F/2B contacts, front and back contacts metal to metal, conforming to IRS: S 46 and firm's specification. The relay housing shall contain two miniature identical relays in mini group housing complete with base plate, Inspection by RDSO.						

**3. ITEM BREAKUP**

<b>Schedule</b>	Schedule NS8-NON-SOR-Supply of Tools Kit.					
<b>Item- 01</b>	Supply of Tools Kit as per IRSEM pre-commissioning checklist item 10 (g) issued by PCSTE letter no. SECR/S&T/Tools/Tech-Sig./250 dated 18.5.2022. Inspection by Rep. of Railway Engineer.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	01	Multimeter: True RMS Digital multimeter should have AC/DC Voltage 1000V, AC/DC Current up to 10A, Resistance up to 60 Mffi, Display count 6000, Frequency range up to 10 MHz, Temperature -40°C to + 1000°C, Should have option of Non- contact Voltage detection(NCV), Category safety ratings : CATIII 1000V/CAT IV 600V,Should have features of Data hold, peak hold, Diode test. Make: STANLAY/STAN ONE SMM606. Inspection by Rep. of Railway engineer.	Numbers	5.00	14396.00	71980.00
2	02	Clamp on Meter: Supply of High precision True RMS Clamp meter with display count 6000, AC current 600mA/6000mA/60A, DC Current 6000mA/60A, AC/DC voltage 600V, AC current resolution 0.1mA (@ 60A), Resistance 60 MegaOhms, Capacitance up to 62mF, Frequency 10Hz to 60kHz with resolution 0.001Hz, Variable frequency control (VFC) mode, Zero button for DCA, Clamp opening 17mm, Non-contact voltage measurement function. Brand: STANLAY/STAN ONE SCM222. Inspection by Rep. of Railway engineer.	Numbers	4.00	22366.00	89464.00
3	03	Hydrometer	Numbers	5.00	250.00	1250.00
4	04	Cutting plier 165mm. Insulated with thick C.A. sleeve, IS 4378(I)-2017 Make Taparia or similar.	Numbers	5.00	310.00	1550.00
5	05	Nose plier plier 165mm. Insulated with thick C.A. sleeve, 165mm. IS 5658-1990 Make Taparia or similar.	Numbers	5.00	310.00	1550.00
6	06	Sealing plier 175mm. Make Taparia or similar.	Numbers	5.00	1500.00	7500.00
7	07	Combination plier 165mm. Insulated with thick C.A. sleeve, 165mm. IS 3650-1981 Make Taparia or similar.	Numbers	5.00	350.00	1750.00
8	08	Screw driver small Set of 5 Blades - 6.0x8mm, 3.5x0.5mm, Phillips 0, Square Poker, Phillips 1, 1 Extension Rod and handle with Neon Bulb. Make Taparia or similar.	Set	5.00	250.00	1250.00
9	09	Screw driver Set Big. Make Taparia or similar.	Numbers	5.00	1150.00	5750.00
10	10	Wire stripper, Make Taparia or similar.	Numbers	5.00	1150.00	5750.00
11	11	Wago/Phoenix type terminal acrew driver.	Numbers	5.00	1450.00	7250.00
12	12	Shunt resistance	Numbers	5.00	350.00	1750.00
13	13	Relay contact puller	Numbers	5.00	3500.00	17500.00
14	14	Crimping tool. Make Taparia or similar.	Numbers	5.00	950.00	4750.00
15	15	Test gauge for point testing	Set	5.00	850.00	4250.00
16	16	Hammer (medium) 2lbs.	Numbers	5.00	350.00	1750.00
17	17	Soldering Iron 125W (with soldering wires & Paste)	Numbers	5.00	450.00	2250.00
18	18	Self Adhesive PVC electrical Insulation Tape - 6m, Steelgrip or similar.	Numbers	24.00	75.00	1800.00
19	19	Brush (iron & synthetic type)	Numbers	5.00	100.00	500.00
20	20	Feeler gauge	Numbers	5.00	850.00	4250.00
21	21	Ring spanner set (12-Piece) Size: 6 mm x 7 mm to 30 mm x 32 mm. Make Taparia or similar.	Set	5.00	950.00	4750.00
22	22	Open end spanner set (8 Pc) Spanner Set-6x7 to 20x22mm. Make Taparia or similar.	Set	5.00	450.00	2250.00
23	23	Box Spanner	Set	5.00	250.00	1250.00
24	24	Adjustable wrench (6", 12" & 18")-1 no. each. Make Taparia or similar.	Set	5.00	750.00	3750.00

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25	25	Insulated box spanner for ARA terminals.	Numbers	5.00	1450.00	7250.00
26	26	MS Tommy Bar	Numbers	5.00	550.00	2750.00
27	27	Chisel & Punch each.	Numbers	5.00	2350.00	11750.00
28	28	Torch LED type rechargeable (400 lumen)	Numbers	5.00	350.00	1750.00
29	29	Steel tape (3m)	Numbers	5.00	350.00	1750.00
30	30	Steel Scale 30cm.	Numbers	5.00	40.00	200.00
31	31	Hacksaw frame (Small) with blades.	Numbers	5.00	200.00	1000.00
32	32	Hand flag- Red and Green	Numbers	5.00	250.00	1250.00
33	33	Megger: Supply of Insulation Resistance Tester to check insulation resistance of electrical and telecom equipment. Test Voltages 100V/250V/500V/1000V for insulation resistance up to 5Gigaohms. AC Voltage 30V-750V. Display Count 2000. Built in LCD Display, CAT III 600V Safety rating. Supply includes batteries, leads C user manual. Brand: Stanley/STAN ONE: SIT500. Inspection by Rep. of Railway engineer.	Numbers	3.00	34089.00	102267.00
34	34	Earth Tester: Supply of Erath ground tester measures earth in 3 ranges (20ffi, 200ffi,2000ffi) with data logging facility, It should have precise 3 wire earth resistance measurement, simple 2 wire earth resistance measurement, Hold save function, Overload protection, Safety ratings CATIII 600V (IEC 61010-1), IEC 61557-1.5, IEC 61010-2031. Make: STANLAY/STAN ONE SIT500. Inspection by Rep. of Railway engineer.	Numbers	3.00	18832.00	56496.00
35	35	TSR meter	Numbers	4.00	350.00	1400.00
36	36	Hacksaw frame (large) with blades.	Numbers	3.00	350.00	1050.00
37	37	Hammer (Big) 10lbs.	Numbers	3.00	850.00	2550.00
38	38	Hand operated tarck drill machine (with drill bit-9/32)	Numbers	3.00	7500.00	22500.00
39	39	Torque wrench	Set	3.00	1950.00	5850.00
40	40	Electriv Drill machine with set of drill bits (110V AC)	Numbers	3.00	2250.00	6750.00
41	41	Measuring tape- 30 mtr.	Numbers	3.00	350.00	1050.00
42	42	Grease Gun with 6" Steel Extension and Coupler.	Numbers	3.00	450.00	1350.00
43	43	Files Flat 30 cm with PVC handle.	Numbers	3.00	150.00	450.00
44	44	Files Round 30 cm with PVC handle.	Numbers	3.00	250.00	750.00
45	45	Files Half Round with PVC handle.	Numbers	3.00	280.00	840.00
46	46	File triangular with PVC handle.	Numbers	3.00	250.00	750.00
47	47	Mild Steel Crow Bar 9 inch. Make Taparua or similar.	Numbers	3.00	250.00	750.00
48	48	Heavy-Duty Stainless Steel Big Spade for Gardening, Digging & Farming Rust-Resistant 8.5" x 11" x 35" Agricultural Shovel with Strong Wooden Handle.	Numbers	3.00	704.00	2112.00
49	49	Hand rake (Panja)	Numbers	3.00	250.00	750.00
50	50	Steel Allen Key Set (Hex, Black Finish, Hanger Packing, Pack Of 10).	Set	3.00	219.00	657.00
51	51	CABLE FAULT LOCATOR: Cable Maintenance Test Set having feature Cable Fault location TDR (Zero Dead Zone) (Up to 10 kms), Resistive Fault Locator (Up to 60kms detects up to 20M), Multimeter (ACDC Volts) C Loop Current, Ground resistance tester, Resistance C Leakage/Insulation Resistance (1G), Capacitance /Cable length (Open meter), Cable Stress C Longitudinal Balance Test, Loop current, Circuit loss, Tracing Tone generator C reference tone, data saving C uploading to PC, with Rechargeable Li-ion battery pack, AC adapter/charger with test leads, crocodile clips C other accessories. Make- Stanley /Sidekick Plus Kit (1155- 5001). Inspection by Rep. of Railway engineer.	Numbers	1.00	678704.00	678704.00

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52	52	CABLE ROUTE TRCAER: Supply of GNSS based cable route tracer kit with receiver with built in mount for GNSS receiver, 12W or higher power transmitter with >= 130V Voltage boost, suitable for detecting C mapping underground cables with accuracy up to 25 cm, with current direction up/down arrows. Supply shall include locating receiver with RTK receiver powered by locator receiver, transmitter, compatible dual Bluetooth android phone, mobile application pre-installed in android device with 3 years subscription C PC database software access for direct map generation C download including depth data, 3 years subscription for GNSS correction service C standard accessories, per specification attached. Make/Model: Rycom Pathfinder PLDL Route locator with Trimble DA2 GNSS receiver. Inspection by Rep. of Railway engineer.	Numbers	1.00	1581845.00	1581845.00
53	53	Chain Pulley Block 5 ton with rope. Inspection by Rep. of Railway engineer.	Set	1.00	8500.00	8500.00
54	54	Supply of disitilled water plant/Demineralised palnt of (10-50-100 liter per hour) make Laptech/shivam or indicated by Railways. Inspection by Rep. of Railway Engineer.	Numbers	3.00	27468.00	82404.00
					<b>Total</b>	<b>2833319.00</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
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, he audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover. The tenderers shall submit requisite information as per Annexure-VIB, along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by Audited Balance Sheet.	No	No	Allowed (Mandatory)
2	Bid Capacity: - Clause no. 10.3 of GCC-2022 with their qualifying criteria will be applicable in case of Bid Capacity.	No	No	Allowed (Mandatory)
3	Joint Venture: - Clause no. 17 of GCC-2022 with their qualifying criteria will be applicable in case of Joint Venture (JV).	No	No	Allowed (Mandatory)
4	Partnership firm :- Clause no. 18 of GCC-2022 with their qualifying criteria will be applicable in case of partnership firm.	No	No	Allowed (Mandatory)

**Special Technical Criteria**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
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1	<p>The tenderer must have successfully completed or substantially completed any one of the following categories of work(s) during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: (i) Three similar works each costing not less than the amount equal to 30% of advertised value of the tender, 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 costing not less than the amount equal to 60% of advertised value of the tender. Similar work means:- (i)Indoor work involving supply, installation, testing &amp; commissioning of Electronic Interlocking/RR/PI (OR) (ii)Both Indoor and Outdoor works involving supply, installation, testing &amp; commissioning of Electronic Interlocking/RR/PI (OR) (iii)Indoor &amp; Outdoor works for IBS/ABS/LC Interlocking/Yard Remodeling work involving installation or alteration to Electronic Interlocking/RR/PI. NOTE : (i) The successful bidder shall submit an undertaking from RDSO approved EI OEM, before the supply of material, to confirm compliance with extant RDSO guidelines and to meet contract specific requirements. Note for Technical Eligibility Criteria: - 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.</p>	No	No	Allowed (Mandatory)
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**Bidders shall confirm and certify on the behalf of the tenderer including its constituents as under:**

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

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

S.No.	Description
1	<p><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)</p>

**5. COMPLIANCE**

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

**Commercial-Compliance**



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S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	A copy of certificate stating that they are not liable to be disqualified and all their statements/documents submitted along with bid are true and factual. Standard format of certificate to be submitted by the bidder is enclosed as per Annexure V. In addition to Annexure-V, in case of other than Company/Proprietary firm, Annexure-V(A) shall also be submitted by the each member of a Partnership Firm/Joint Venture (JV)/Hindu Undivided Family (HUF)/Limited Liability Partnership (LLP) etc. as the case may be. Non submission of a copy of certificate by the bidder shall result in summarily rejection of his/their bid. It shall be mandatorily incumbent upon the tenderer to identify, state and submit the supporting documents duly self attested/digitally signed by which they/he are/is qualifying the Qualifying Criteria mentioned in the Tender Document.	No	No	Allowed (Mandatory)
2	Mandate form containing PAN No. should be uploaded.	No	No	Allowed (Optional)
3	The Tenderer must go through the IR GCC- 2022 available in the documents section and submit the Documents regarding constitution of the firm viz.(i) Proprietorship affidavit/ declaration, Partnership Firm/Company/Joint Venture (JV)/Registered Society/Registered Trust, MOA (Memorandum of Association)/AOA(Articles of Association) of the company; and (ii)A copy of Authorization/Power of Attorney issued by the Company (backed by the resolution of Board of Directors)in favour of the individual to sign the tender on behalf of the company must be submitted by the Tenderer etc. In absence of such documents the tender shall be treated as having been submitted by the individual who has signed the tender. Besides the above the tenderer also has to submit a declaration regarding blacklisted/ not blacklisted	No	No	Allowed (Optional)
4	As per GCC-2022(i)The tenderer shall clearly specify whether the tender is submitted on his own(Proprietary Firm)or on behalf of a Partnership Firm/Company/Joint Venture (JV)/Registered Society/Registered Trust/HUF etc. The tenderer(s)shall enclose the attested copies of the constitution of their concern, and copy of PAN Card along with their tender. Tender Documents in such cases are to be signed by such persons as may be legally competent to sign them on behalf of the firm, company, association, trust or society, as the case may be(ii)Following documents shall be submitted by the tenderer: a)Sole Proprietorship Firm:(i)An undertaking that he is not blacklisted or debarred by Railways or any other Ministry/Department of Govt. of India from participation in tender on the date of opening of bids, either in individual capacity or as a member of the partnership firm or JV in which he was/is a partner/member. Concealment/wrong information in regard to above shall make the contract liable for determination under Clause 62 of the GCC of Contract(b)HUF:(i)A copy of notarized affidavit on Stamp Paper declaring that he who is submitting the tender on behalf of HUF is in the position of 'Karta' of Hindu Undivided Family (HUF) and he has the authority, power and consent given by other members to act on behalf of HUF.(ii)An undertaking that the HUF is not blacklisted or debarred by Railways or any other Ministry/Department of Govt. of India from participation in tender on the date of opening of bids, either in individual capacity or as a member of the partnership firm or JV in which HUF was/is a partner/member. Concealment/wrong information in regard to above shall make the contract liable for determination under Clause 62 of the GCC.(C)For partnership firm The Tenderer shall submit -(i)A notarized copy of partnership deed.(ii)A notarized or registered copy of Power of Attorney in favour of the individual to tender for the work, sign the agreement etc. and create liability against the firm.(iii)An undertaking by all partners of the partnership firm that they are not blacklisted or debarred by Railways or any other Ministry/ Department of the Govt. of India from participation in tenders/contracts as on the date of opening of bids, either in their individual capacity or in any firm in which they were / are partners. Concealment /wrong information in regard to above shall make the contract liable for determination under Clause 62 of the General Conditions of Contract. (D)Company registered under Companies Act 2013:(i)The copies of MOA(Memorandum of Association) / AOA (Articles of Association) of the company.(ii)A copy of Certificate of Incorporation.(iii) A copy of Authorization/Power of Attorney issued by the Company (backed by the resolution of Board of Directors) in favour of the individual to sign the tender on behalf of the company and create liability against the company.(iv)An undertaking that the Company is not blacklisted or debarred by Railways or any other Ministry/Department of Govt. of India from participation in tender on the date of opening of bids, either in individual capacity or as a member of the partnership firm or JV in which the Company was/is a partner/member. Concealment/wrong information in regard to above shall make the contract able for determination underClause62GCC(e)Registered Society & Registered Trust and LLP-Tenderer shall submit documents as per Clause 14 of GCC-2022.	No	No	Allowed (Mandatory)

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5	(I)If it is NOT mentioned in the submitted tender that tender is being submitted on behalf of a Sole Proprietorship firm / Partnership firm / Joint Venture /Registered Company etc., then the tender shall be treated as having been submitted by the individual who has signed the tender.(II)After opening of the tender, any document pertaining to the constitution of Sole Proprietorship Firm/ Partnership Firm / Registered Company/ Registered Trust / Registered Society / HUF etc. shall be neither asked nor considered, if submitted. Further, no suo moto cognizance of any document available in public domain (i.e., on internet etc.) or in Railway's record/office file set c. will be taken for consideration of the tender, if no such mention is available in tender offer submitted. (III)A tender from JV / Partnership firm etc. shall be considered only where permissible as per the tender conditions. (IV)The Railway will not be bound by any change in the composition of the firm made subsequent to the submission of tender. Railway may, however, recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the Contractor.	No	No	Allowed (Optional)
6	The tenderer whether his own(Proprietary Firm)or on behalf of a Partnership Firm/Company/Joint Venture (JV)/Registered Society/Registered Trust/HUF etc shall also submit all documents as per instructions given in the General Conditions of contract-2022(Second Sheet) wherever applicable. Tenderer are thus advised to read the same before submitting their bids and upload the required documents.	No	No	Allowed (Optional)
7	A declaration regarding engagement/employment/ partnership etc. (or Not) of retired Railway employees should be uploaded by the Tenderer.	No	No	Allowed (Mandatory)
8	The list of personnel/organization on hand and proposed to be engaged for the tendered work. Similarly list of Plant & Machinery available on hand and proposed to be inducted and hired for the tendered work.	No	No	Allowed (Optional)
9	The tenderers shall submit a copy of certificate stating that all their statements/documents submitted along with bid are true and factual. Standard format of certificate to be submitted by the bidder is enclosed as per Annexure V. In addition to Annexure-V, in case of other than Company/Proprietary firm, Annexure-V(A) shall also be submitted by the each member of a Partnership Firm/Joint Venture (JV)/Hindu Undivided Family (HUF)/Limited Liability Partnership (LLP) etc. as the case may be. Non submission of above certificate(s) by the bidder shall result in summarily rejection of his/their bid. It shall be mandatorily incumbent upon the tenderer to identify, state and submit the supporting documents (if any) duly self attested. NOTE- Format of Annexure V is also enclosed in document Tab for references.	No	No	Allowed (Mandatory)
10	For Sole Proprietorship Firm: (i) An undertaking that he is not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of opening of bids, either in individual capacity or as a member of the partnership firm or JV in which he was / is a partner/member. Concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the General Conditions of Contract.	No	No	Allowed (Optional)
11	For Partnership Firm :- (i) A notarized copy of partnership deed. (ii) A notarized or registered copy of Power of Attorney in favour of the individual to tender for the work, sign the agreement etc. and create liability against the firm. (iii) An undertaking by all partners of the partnership firm that they are not blacklisted or debarred by Railways or any other Ministry / Department of the Govt. of India from participation in tenders / contracts as on the date of opening of bids, either in their individual capacity or in any firm in which they were / are partners. Concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the General Conditions of Contract.	No	No	Allowed (Optional)
12	For Company registered under Companies Act-2013 :- (i) The copies of MOA (Memorandum of Association) / AOA (Articles of Association) of the company (ii) A copy of Certificate of Incorporation (iii) A copy of Authorization/Power of Attorney issued by the Company (backed by the resolution of Board of Directors) in favour of the individual to sign the tender on behalf of the company and create liability against the company.All other documents in terms Para 10 of the Tender Form (Second Sheet of the GCC) (iv) An undertaking that the Company is not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of opening of bids, either in individual capacity or as a member of the partnership firm or JV in which the Company was / is a partner/member. Concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the General Conditions of Contract.	No	No	Allowed (Optional)
13	Registered Society & Registered Trust:(i) A copy of Certificate of Registration (ii) A copy of Memorandum of Association of Society/Trust Deed (iii) A copy of Power of Attorney in favour of the individual to sign the tender documents and create liability against the Society/Trust. (iv) A copy of Rules & Regulations of the Society (v) All other documents in terms of Para 10 of the Tender Form (Second Sheet of the GCC)	No	No	Allowed (Optional)

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14	LLP (Limited Liability Partnership): (i) A copy of LLP Agreement (ii) A copy of Certificate of Incorporation (iii) A copy of Power of Attorney/Authorization issued by the LLP in favour of the individual to sign the tender on behalf of the LLP and create liability against the LLP. (iv) An undertaking by all partners of the LLP that they are not blacklisted or debarred by Railways or any other Ministry / Department of the Govt. of India from participation in tenders / contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP or JV in which they were / are partners/members. Concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the Standard General Conditions of Contract. (v) All other documents in terms of Para 10 of the Tender Form (Second Sheet of the GCC)	No	No	Allowed (Optional)
15	HUF- A copy of notarized affidavit on Stamp Paper declaring that he who is submitting the tender on behalf of HUF is in the position of 'Karta' of Hindu Undivided Family (HUF) and he has the authority, power and consent given by other members to act on behalf of HUF. (ii) An undertaking that the HUF is not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of opening of bids, either in individual capacity or as a member of the partnership firm or JV in which HUF was / is a partner/member. Concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the General Conditions of Contract.	No	No	Allowed (Optional)
16	An undertaking by all partners/members of JV / HUF/proprietor etc. of the partnership firm or JV or HUF or Proprietorship Firm etc. as the case may be that they are not blacklisted or debarred by Railways or any other Ministry/ Department of the Govt. of India from participation in tenders/contracts as on the date of opening of bids, either in their individual capacity or in any firm in which they were / are partners/ members/Proprietors/HUF etc. as the case may be is to be submitted.	No	No	Allowed (Mandatory)
17	Clarification of Bids: To assist in the examination, evaluation & comparison and prequalification of the Tender, the Railway may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder that is not in response to a request by the Railway shall not be entertained or considered. The Railway request for clarification and the response of the bidder in this regard shall be in writing. However, if a Bidder does not provide clarification of its bid by the date and time communicated in the Railway request for clarification, the bid shall be evaluated as per the documents submitted along with the bid.	No	No	Allowed (Optional)
18	The tenderer whether sole proprietor / a company or a partnership firm / registered society / registered trust / HUF / LLP etc if they want to act through agent or individual partner(s), should submit along with the tender, a copy of power of attorney duly stamped and authenticated by a Notary Public or by Magistrate in favour of the specific person whether he/they be partner(s) of the firm or any other person, specifically authorizing him/them to sign the tender, submit the tender and further to deal with the Tender/ Contract up to the stage of signing the agreement except in case where such specific person is authorized for above purposes through a provision made in the partnership deed / Memorandum of Understanding / Article of Association /Board resolution, failing which tender shall be summarily rejected. A separate power of attorney duly stamped and authenticated by a Notary Public or by Magistrate in favour of the specific person whether he/they be partner(s) of the firm or any other person, shall be submitted after award of work, specifically authorizing him/them to deal with all other contractual activities subsequent to signing of agreement, if required. Note: A Power of Attorney executed and issued overseas, the document will also have to be legalized by the Indian Embassy and notarized in the jurisdiction where the Power of Attorney is being issued. However, the Power of Attorney provided by Bidders from countries that have signed the Hague Legislation Convention 1961 are not required to be legalized by the Indian Embassy if it carries a conforming Apostille certificate.	No	No	Allowed (Optional)
19	The Tender Form(First Sheet) available in the document section must be filled in by the tenderer and uploaded duly filled in.	No	No	Allowed (Mandatory)
20	The Tenderer must go through the Tender Form(Second Sheet) thoroughly and submit all the required documents even if not clearly mentioned in the Conditions or compliances in the Tender document.	Yes	Yes	Not Allowed
21	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)

**General Instructions**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
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1	Letter of Credit as Mode of Payment in Works Tender or Service Tender has been introduced as per Rly Board's letter no. 2018/CE-I/CT/9, New Delhi, dtd: 04.06.2018. The details in this regard are given in Special conditions of contract which may be seen by the tenderers before bidding in IREPS Portal.	No	No	Not Allowed
2	Tenderers(s) should read carefully the instructions given in the Tender Form (Second Sheet) of Indian Railway Standard General Conditions of Contract-2022 and submit all the required documents in compliance to the Instructions containing in the said Tender Form (Second Sheet). A copy of the Indian Railway Standard General Conditions of Contract(GCC)- 2022 is available in the document section.	No	No	Not Allowed

**Special Conditions**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	In case of ambiguity or typographical error in description of items in the tender schedule for SOR items, Schedule of rates 2021 document is attached in the tender where description for schedule item shall be applicable and binding on the contractor.	No	No	Not Allowed
2	GAD's for Central station building and end goomtys/auto hut are attached for fire-alarm installation plan and earthing and bonding installations plan for approval before materials delivery and installation at site.	No	No	Not Allowed
3	The tenderer are advised to read all the conditions mentioned in the tender document as well as uploaded documents carefully before submitting the bids.	No	No	Not Allowed
4	Doc. Condition: - Condition mentioned in all uploaded documents are applicable and binding in this contract.	No	No	Not Allowed
5	(I) Rights of the Railway to deal with Tender: The authority for the acceptance of the tender will rest with the Railway. It shall not be obligatory on the said authority to accept the lowest tender or any other tender, and tenderer(s) shall neither demand any explanation for the cause of rejection of his/their tender nor the Railway to assign reasons for declining to consider or reject any particular tender or tenders. (II) If the tenderer(s) deliberately gives/ give wrong information in his / their tender or creates / create circumstances for the acceptance of his / their tender, the Railway reserves the right to reject such tender at any stage. (III) If any partner(s) of a partnership firm expires after the submission of its tender or after the acceptance of its tender, the Railway shall deem such tender as cancelled / contract as terminated under clause 61 of the Standard General Conditions of Contract, unless the firm retains its character as per partnership agreement. If a sole proprietor expires after the submission of tender or after the acceptance of tender, the Railway Shall deem such tender as cancelled / contract as terminated under clause 61 of the Standard General Conditions of Contract.	No	No	Not Allowed
6	For all contracts costing more than Rs.5 Crore Contractor's e-MB is mandatory. (Authority - Rly. Bd.'s letter No.2017/CE-I/CT/9, dtd.31.05.2023.	No	No	Not Allowed
7	During execution of work by the contractor, if any derailment occurs on the work site due to negligence by the Agency, then contract will be terminated with forfeiture of Security Deposit & Performance Guarantee.	No	No	Not Allowed
8	The Contractor will fill up and update the details of Contracts, Contractual Labour employed by him/her and related details as required by Railway on "Contract Labour Management Portal" or any other portal viz. "www.Shramikkalyan.indianrailways.gov.in" portal.	No	No	Not Allowed

**DYCSTE-C-RAIPUR-S AND T/SOUTH EAST CENTRAL RLY  
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9	Subsequent to the enactment of GST Act 2017, The Para (a) of Clause 6, Part-I of Indian Railways Standard General Conditions of Contract, September 2019, is revised as below 6. Care in Submission of Tenders: (a) (i)Before submitting a tender, the tenderer will be deemed to have satisfied himself by actual inspection of the site and locality of the works, that all conditions liable to be encountered during the execution of the works are taken into account and that the rates he enters in the tender forms are adequate and all-inclusive to accord with the provisions in Clause-37 of the Standard General Conditions of Contract for the completion of works to the entire satisfaction of the Engineer. (a) ii)Tenderers will examine the various provisions of The Central Goods and Services Tax Act, 2017(CGST)/ Integrated Goods and Services Tax Act, 2017(IGST)/ Union Territory Goods and Services Tax Act, 2017(UTGST)/ respective state's State Goods and Services Tax Act (SGST) also, as notified by Central/State Govt. & as amended from time to time and applicable taxes before bidding. Tenderers will ensure that full benefit of Input Tax Credit (ITC) likely to be availed by them is duly considered while quoting rates. (a)(iii)The successful tenderer who is liable to be registered under CGST/IGST/UTGST/SGST Act shall submit GSTIN along with other details required under CGST/IGST/UTGST/SGST Act to railway immediately after the award of contract, without which no payment shall be released to the Contractor. The Contractor shall be responsible for deposition of applicable GST to the concerned authority. (a)(iv)In case the successful tenderer is not liable to be registered under CGST/IGST/UTGST/SGST Act, the railway shall deduct the applicable GST from his/their bills under reverse charge mechanism (RCM) and deposit the same to the concerned authority. (b)When work is tendered for by a firm or company, the tender shall be signed by the individual legally authorized to enter into commitments on their behalf. (c)The Railway will not be bound by any power of attorney granted by the tenderer or by changes in the composition of the firm made subsequent to the execution of the contract. It may, however, recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the Contractor.	No	No	Not Allowed
10	All the instructions and Conditions mentioned in all the documents uploaded with the tender are applicable and binding to the contractors in this contract.	No	No	Not Allowed
11	The rates to be quoted are inclusive of GST and all other charges and taxes levied by the state as well as Central Govt. from time to time.	No	No	Not Allowed
12	In order to ensure prompt and proper uploading of details related to LOAs, engaged workmen, wage & other payment details, Railways/Pus etc. shall introduce a special condition in their tender documents of the tenders to be called henceforth (Authority-As per Rly. Bd.'s letter No.2018/CE-I/CT/4, dtd.17.10.2018). The special condition is as under :- 1) Contractor is to abide by the provisions of Payment of Wages act & Minimum Wages act in terms of Clause 54 and 55 of Indian Railways General Condition of Contract. In order to ensure the same, an application has been developed and hosted on website 'www.shramikkalyan.indianrailways.gov.in'. Contractor shall register his firm/company etc. and upload requisite details of labour and their payment in this portal. These details shall be available in public domain. The Registration/updation of Portal shall be done as under: (a)Contractor shall apply for onetime registration of his company/firm etc. in the Shramikkalyan portal with requisite details subsequent to issue of Letter of Acceptance. Engineer shall approve the contractor's registration on the portal within 7 days of receipt of such request. (b)Contractor once approved by any Engineer, can create password with login ID (PAN No.) for subsequent use of portal for all LoAs issued in his favour. (c)The contractor once registered on the portal, shall provide details of his Letter of Acceptance (LoA)/Contract Agreement on shramikkalyan portal within 15 days of issue of any LoA for approval of concerned Engineer. Engineer shall update (if required) and approve the details of LoA filled by contractor within 7 days of receipt of such request. (d) After approved of LoA by Engineer, contractor shall fill the salient details of contract labours engaged in the contract and ensure updating of each wage payment to them on shramikkalyan portal on monthly basis. (e)It shall be mandatory upon the contractor to ensure correct and prompt uploading of all salient details of engaged contractual labour & payments made thereof after each wage period. 2) While processing payment of any 'On Account Bill' or 'Final bill' or release of 'Advance' or 'Performance Guarantee'/Security deposit', contractor shall submit a certificate to the Engineer or Engineer's representatives that " I have uploaded the correct details of contract labours engaged in connection with this contract and payments made to them during the wage period in Railway's Shramikkalyan portal at 'www.shramikkalyan.indianrailways.gov.in' till ..... Month ..... Year.	No	No	Not Allowed
13	Indian Railway General Conditions of Contract (GCC)- 2022 updated with correction slips Issued up to date of inviting tender or as otherwise specified in the tender documents is applicable for this tender. Besides the Conditions of GCC- 2022, the Condition mentioned in the all uploaded documents are applicable and binding in this contract.	No	No	Not Allowed

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14	After award of the Contract >>>> The Contractor will fill up and update the details of Contracts, Contractual Labour employed by him/her and related details as required by Railway on "Contract Labour Management Portal" e.g. "Shramikkalyan" portal of Indian Railway or any other portal or in Register - as Directed by Engineer-in-Charge for which no extra payments will be made.	No	No	Not Allowed
15	Clause 55 - B to GCC : Provisions of Employees Provident Fund and Miscellaneous Provisions Act, 1952:The Contractor shall comply with the provisions of Para 30 & 36-B of the Employees Provident Fund Scheme, 1952;Para 3 & 4 of Employees' Pension Scheme, 1995; and Para 7 & 8 of Employees Deposit Linked Insurance Scheme, 1976; as modified from time to time through enactment of "Employees Provident Fund & Miscellaneous Provisions Act, 1952", wherever applicable and shall also indemnify the Railway from and against any claims under the aforesaid Act and the Rules.	No	No	Not Allowed
16	EPF and ESI registration would be mandatory wherever applicable and documents towards EPF and ESI registration shall be submitted before execution of the agreement failing which contract will be terminated. The labours deployed by the contractor for the entire work should have individual Bank account in their own name. The payment to the labour by the contractor should as far as possible be made through bank accounts of the individual labour as per the latest minimum wages issued from Chief labour commissioner (C).	No	No	Not Allowed
17	The Earnest Money Deposit(EMD) will be known as Bid Security for all purposes henceforth.	No	No	Not Allowed
18	The Bid Security shall be deposited either in cash through e-payment gateway or submitted as Bank Guarantee bond from a scheduled commercial bank of India or as mentioned in tender documents. The Bank Guarantee bond shall be as per Annexure-VIA and shall be valid for a period of 90days beyond the bid validity period. The Tenderer are advised to upload the Bid Security in case of BG as per Annexure VIA for BID SECURITY uploaded in document Tab. Also, the original Bank Guarantee should be delivered in person to the official nominated as indicated in the tender document within 5 working days before closing date for submission of bids (i.e. excluding the last date of submission of bids). Non submission of scanned copy of Bank Guarantee with the bid on e-tendering portal (IREPS) and /or non submission of original Bank Guarantee within the specified period shall lead to summary rejection of bid. NOTE- Bank Guarantee for Bid Security shall be Acting Through Dy.CSTE/CON/RAIPUR and Beneficiary shall be FA & CAO/CON/BILASPUR/SECR.	No	No	Not Allowed
19	In case, submission of Bid Security in the form of Bank Guarantee, following shall be ensured: i. A scanned copy of the Bank Guarantee shall be uploaded on e-Procurement Portal (IREPS) while applying to the tender. ii. The original Bank Guarantee should be delivered in person to the official nominated as indicated in the tender document within 5 working days of deadline of submission of bids. iii. Non submission of scanned copy of Bank Guarantee with the bid on e-tendering portal (IREPS) and/or non submission of original Bank Guarantee within the specified period shall lead to summary rejection of bid. iv. The Tender Security shall remain valid for a period of 90 days beyond the validity period for the Tender v. The details of the BG, physically submitted should match with the details available in the scanned copy and the data entered during bid submission time, failing which the bid will be rejected vi. The Bank Guarantee shall be placed in an envelope, which shall be sealed. The envelope shall clearly bear the identification "Bid for the ***** Project" and shall clearly indicate the name and address of the Bidder. In addition, the Bid Due Date should be indicated on the right hand top corner of the envelope. vii. The envelope shall be addressed to the officer and address as mentioned in the tender document. viii. If the envelope is not sealed and marked as instructed above, the Railway assumes no responsibility for the misplacement or premature opening of the contents of the Bid submitted and consequent losses, if any, suffered by the Bidder. (Sample copy of the Bank Guarantee Bond is available in document section as Annexure-VIA)	No	No	Not Allowed
20	Permission to Bid for a bidder from a country which shares Land boundary with India: Any bidder from the countries sharing a land border with India will be eligible to bid in any procurement of works (including turnkey projects) only if the bidder is registered with the Competent Authority. The Competent Authority for registration will be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT), Government of India. For interpretation of this para, Department of Expenditure, Ministry of Finance, Government of India letter F.No.6/18/2019-PPD dated 23/07/2020 shall be referred.	No	No	Not Allowed
21	The GCC wherever mentioned in the Tender document will be understood as Indian Railway General Conditions of Contract- 2022 with latest amendments if any	No	No	Not Allowed

**Technical-Compliances**

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S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Tentative ESP is attached with the tender for Kurkanar and Palli based on which SIPs shall be prepared. Bit chart/baseline shall be submitted by the contractor for approval based on approved SIP received from Railway	No	No	Not Allowed
2	As per similar nature of work criteria, successful bidder shall submit MOU from the OEM of EI after award of the contract. If one or more of the EI's OEMs are of different makes, the successful bidder shall submit MOUs from all such OEMs.	No	No	Not Allowed

**Undertakings**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	I/ We have visited the works site and I / We am / are aware of the site conditions.	No	No	Not Allowed
2	If the tenderer s deliberately give/gives wrong information in his/their tender or create/creates circumstances for the acceptance of his/their tender, the Railway reserves the right to reject such tender at any stage.	No	No	Not Allowed

**6. Documents attached with tender**

S.No.	Document Name	Document Description
1	GCC-Apr-2022_compressed.pdf	GCC Apr 2022
2	GCCACS1to5_compressed.pdf	GCC Apr 2022 ACS I to V
3	GCCACS6to11_compressed.pdf	GCC Apr 2022 ACS VI to XI
4	Boardsletterdt17_02_2022regSystemimprovementforcommissionigofEI_1.pdf	System Improvement for EI
5	RLYBDSLETTERONKAVACHREADYEI04.09.20241.pdf	Kavach Ready
6	procedureofdigginginvicinityofcable.pdf	Digging in vicinity of cable
7	Letter_Of_Credit.pdf	Letter Of Credit
8	Streamliningsignalfunctions.pdf	Stream lining signal function
9	STdrawings_compressed.pdf	Standard Drawings
10	AFDASSpecification.pdf	AFDAS latest Spec
11	SORSECRSNT.pdf	SOR SECR 2021
12	14.OFCRINGPROTECTIONFORDISTRIBUTEDEISYSTEM.pdf	OFC Ring protection
13	3.Generalinstructionforschedule.pdf	General instruction for schedule
14	TechnicalConditionsoftender.pdf	Technical Conditions of tender
15	Annexure.pdf	Annexures
16	SCC.pdf	Special Condition of Contract
17	TentativeSIPYJncabin.pdf	Tentative SIP Y Jn cabin
18	72-2020TypicalDiagramofStationBuildingforElupto50routesTypical72-2020.pdf	Typical EI building
19	GMW-SECR-PDCELL-CONBSPRNGP-Kuknar-102-2025-V23-R0-A0-SSE-DRG-C-R-PDF.pdf.pdf	Tentave ESP of Kurkanar
20	GMW-SECR-PDCELL-CONBSPRNGP-Palli-71-2025-V29-R0-A0-SSE-DRG-C-R-PDF.pdf.pdf	Tentative ESP of Palli
21	RSDSIP.pdf	SIP RSD
22	JDBsip1.pdf	Jagdalpur tentative SIP
23	TentativeSIPKURKUNARPALLI.pdf	Tentative SIP Kurkanar Palli



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24	ar-12rim-360.pdf	SIP Rajim
25	KENDRISIPALTA31.pdf	SIP Kendri
26	Compendium2.02025_compressed.pdf	SECR compendium 2025
27	PolicyCircular06_2022ImplementationofstandardizationofstandardcircuitissuedbyRDSO.pdf	policy circular 06
28	05_08_2024Recommendationsof90thSignalStandardsCommitteeSSCMeeting202411.pdf	SSC recommendations
29	ilovepdf_merged46.pdf	RDSO point circuit

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:** NEERAJ PANCHAL

**Designation :** Dy.CSTE/R