



इरकॉन इंटरनेशनल लिमिटेड

नवरत्न कम्पनी
(भारत सरकार का उपक्रम)



IRCON INTERNATIONAL LIMITED
NAVRATNA COMPANY
(A Govt. of India Undertaking)



परियोजना कार्यालय: रेलवे विद्युतीकरण पूर्वोत्तर सीमांत रेलवे पैकेज 2, सिलचर परियोजना, मकान नंबर 27, तीसरी मंजिल, वार्ड नंबर 25 तारापुर चांदमणि रोड, सिलचर, असम 788003

Project Office: Railway Electrification Northeast Frontier Railway Package 2, Silchar Project,

H. No. 27, 3rd Floor, Ward No. 25 at Tarapur Chandmani Road, Silchar, Assam 788003, Project Email ID: ircon.5040@ircon.org

No. IRCON/ELECT/5040/RE NFRPKG2/TWS/T.SHED&QTRS/3450

Date: 07.05.2026

To,

M/s MRU Sewak Ram Constructions Private Limited

A-108, C-58/22, FLEX APARTMENTS, SECTOR-62, NOIDA,
Gautam Buddha Nagar, Uttar Pradesh, 201301

Mob - 07703939164

E-mail - sewakram64@yahoo.co.in

LETTER OF ACCEPTANCE

(Kind Attention: Mr. Umesh Gupta)

Dear Sir,

Sub:- "Design & Construction of Tower Wagon Shed & Trip Shed with Laying and linking of Railway Track & other ancillary works, etc. at Karimganj Jn, Ambassa & Agartala and Staff Quarters at Arunachal Jn. of Northeast Frontier Railway (NFR) (Package-2)" - **Letter of Acceptance (LOA)**

Ref.:1) e-Procurement No.: IRCON/ELECT/5040/RE NFRPKG2/TWS/T.SHED & QTRS/OT-2, Date: 17.03.2026

2) Your e-Tender opened on 14.04.2026 and financial e-bid opened on 24.04.2026

3) Corrigendum No.01 dated 06.04.2026

1. The competent authority for and on behalf of Ircon International Limited has accepted your offer for a sum of **Rs. 22,61,73,695.37/-** (Rupees Twenty-Two Crore Sixty-One Lakh Seventy-Three Thousand Six Hundred Ninety-Five and Thirty-Seven Paise Only) inclusive of Goods and Services Tax (GST), other taxes, duties, levies etc. (Detailed Bill of Quantities is enclosed as Annexure-A) as per Clause no.8.0 of Special Conditions of Contract (SCC).
2. You are requested to submit the following within 21 days of issue of this letter but before signing of the Agreement, whichever is earlier:
 - a. Performance guarantee for an amount of Rs.1,13,08,685/- (Rupees One Crore Thirteen Lacs Eight Thousand Six Hundred & Eighty-Five only i.e. 5% of the contract value **Rs. 22,61,73,695.37/-** in the form detailed in Clause no.: 13.1 of Special Conditions of Contract (SCC).
 - b. Detail Programme for execution of Works as per Clause no.: 2(i) of Special Conditions of Contract.
3. You are requested to attend office on or before 02.06.2026 for signing of the Contract Agreement (i.e. a date within 28 days of issue of this letter as per Clause no.15.0 of Special Conditions of Contract).
4. Taxes, Duties & Levies etc. and insurance shall be applicable as per Clause 8.0 and 25.0 respectively of SCC (Special Conditions of Contract).
5. The deduction of retention money shall be recovered from your on-account bills @ 10% of the gross value of each on account bill till the sum total of retention money



पंजीकृत कार्यालय: सी -4, डिस्ट्रिक्ट सेंटर, साकेत, नई दिल्ली -110017, भारत
Registered Office: C-4, District Centre, Saket, New Delhi-110017, INDIA
Tel.: +91-11-29565666, Fax: +91-11-26854000, 26522000
E-mail: info@ircon.org, Web: www.ircon.org
CIN - L45203DL1976COI008171





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H. No. 27, 3rd Floor, Ward No. 25 at Tarapur Chandmani Road, Silchar, Assam 788003, Project Email ID: ircon.5040@ircon.org

reaches 5% of the contract value of the work. (Clause No.13.2 of Special Condition of Contract).

6. Employer shall deduct Cess @1% on account of labour cess on the total value inclusive of supply and work from each RA bill of the contractor. (Clause No. 8 (viii) of Special Condition of Contract).
7. The mode of payment, payment terms & Tax Deduction at Source (TDS) shall be made in accordance as per Clause 25.0 of SCC. The Contractor should issue Tax Invoice showing IGST/CGST/SGST/UTGST as applicable.
8. You are requested to commence the work immediately. The entire work shall be completed within a period of 15 (Fifteen) months from the date of issue of this LOA.
9. This letter of acceptance is being sent in duplicate. One copy may please be signed, stamped and returned to this office in token of unconditional acceptance.
10. All other terms and conditions contained in the e-Tender documents dated 17.04.2026 shall form part and parcel of the contract.
11. You are requested to contact **"Chief General Manager (Electrical) Ircan International Limited, H. No. 27, 3rd Floor, Ward No. 25 at Tarapur, Chandmani Road, Silchar, Assam 788003,"** for further instructions and future correspondence.

Please acknowledge the receipt,

Thanking You,

Yours Faithfully,
For & on behalf of
Ircan International Limited

(Sanjeev Kumar)
Chief General Manager/Electrical



Encl: - Annexure-A (Bill of Quantities/Schedule of Items) - 35 Pages

Copy to -

- 1) Dy. General Manager/Fin./Silchar
- 2) Dy. General Manager/Civil/Agartala



पंजीकृत कार्यालय: सी -4, डिस्ट्रिक्ट सेंटर, साकेत, नई दिल्ली -110017, भारत
Registered Office: C-4, District Centre, Saket, New Delhi-110017, INDIA
Tel.: +91-11-29565666, Fax: +91-11-26854000, 26522000
E-mail: info@ircon.org, Web: www.ircon.org
CIN - L45203DL1976GO1008171



SCHEDULE /BILL OF QUANTITIES						
Name of work: Design & Construction of Staff Quarters, Tower Wagon Shed & Trip Shed with Laying and linking of Railway Track & other ancillary works, etc at Karimganj, Ambassa & Agartala Railway Station between in connection with Electrification of RE NFR PKG-2 in state of Assam & Tripura of North East Frontier Railway (NFR)						
Summery Sheet of Bill of Quantities						
Sr. No.	Shedules	Description of Shedules	Estimated Cost (In INR)	Rate quoted by contractor as percentage above/below/at par over the estimated rate		Total Amount (in INR)
				Percentage in figure	Percentage in words	Percentage in words
1	2	3	4	5	6	7
1	Sch. A, B, C, D, E & F	Design & Construction of Staff Quarters, Tower Wagon Shed & Trip Shed with Laying and linking of Railway Track & other ancillary works, etc at Karimganj, Ambassa & Agartala Railway Station between in connection with Electrification of RE NFR PKG-2 in state of Assam & Tripura of North East Frontier Railway (NFR)	₹ 21,14,76,106.00	6.95%	Six point nine five	₹ 22,61,73,695.37
		Total cost of work including GST(Rs.)				₹ 22,61,73,695.37



SCHEDULE /BILL OF QUANTITIES			
Name of work: Design & Construction of Staff Quarters, Tower Wagon Shed & Trip Shed with Laying and linking of Railway Track & other ancillary works, etc at Karimganj, Ambassa & Agartala Railway Station between in connection with Electrification of RE NFR PKG-2 in state of Assam & Tripura of North East Frontier Railway (NFR)			
Summary Sheet of Bill of Quantities			
Sr. No.	Schedules	Description of work	Cost of work
	Sch. A	Civil works for design & construction of Staff Quarters at Arunachal Jn., Trip Shed at Agartala and Tower Wagon Shed at Karimganj, Ambassa & Agartala.	14,27,54,459.54
2	Sch. B	Execution of Items for supply, laying & linking of railway track & other ancillary works at Karimganj, Ambassa & Agartala	4,47,03,752.58
3	Sch. C	General electrical works for Staff Quarters, Trip Shed & Tower Wagon Sheds	1,54,72,299.19
4	Sch. D	Provision of OHE arrangement for Trip Shed	53,32,500.29
5	Sch. E	Provision for alteration of signalling arrangement for Tower Wagon Shed & Trip Shed	1,74,96,661.02
6	Sch. F	Supply & Installation of Furniture for Trip Shed Office	4,14,022.49
		Total cost of schedules after adding quoted price by contractor including GST (Rs.)	₹ 22,61,73,695.37



BILL OF QUANTITY

Name of work: Design & Construction of Staff Quarters, Tower Wagon Shed & Trip Shed with Laying and linking of Railway Track & other ancillary works, etc at Karimganj, Ambassa & Agartala Railway Station between in connection with Electrification of RE NFR PKG-2 in state of Assam & Tripura of North East Frontier Railway (NFR)

S.N.	Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Rate (Rs.)	Amount (Rs.)
		Schedule -"A" (Civil Work)				
		Sub Head No. 1: Earth work				
1	2.8	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.				
a	2.8.1	All kinds of soil	Cum	12050.00	278.39	33,54,609.74
2	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up	Cum	10200.00	209.62	21,38,144.40
3	2.25 (a)	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.	Cum	750.00	749.18	5,61,888.56
4	2.26	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.				
a	2.26.1	All kinds of soil	cum	625.00	135.61	84,757.88
5	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	Cum	210.00	2,271.35	4,76,983.63
6	2.31	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.	Sqm	4616.00	18.82	86,887.89
		Sub Head No.2: Concrete work				
7	4.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	Cum	350.00	8,426.06	29,49,119.51
8	4.1.6	1:3:6 (1 Cement : 3 coarse sand (zone-III): 6 graded stone aggregate 40 mm nominal size).	Cum	155.00	7,677.67	11,90,039.33
9	4.1.8	1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	Cum	395.00	7,285.43	28,77,746.43
10	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
11	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	2400.00	419.40	10,06,570.62
12	5.9.2	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	Sqm	2790.00	901.05	25,13,939.96

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S.N.	Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Rate (Rs.)	Amount (Rs.)
13	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	2510.00	991.69	24,89,151.63
14	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	1240.00	787.58	9,76,598.95
15	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	2075.00	1,028.11	21,33,328.98
16	5.9.15	Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like.	Sqm	80.00	419.40	33,552.35
17	5.9.19	Weather shade, Chajjas, corbels etc., including edges	Sqm	515.00	1,017.20	5,23,858.75
18	5.9.7	Stairs, (excluding landings) except spiral-staircases	Sqm	180.00	818.11	1,47,260.52
19	5.30	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	metre	1000.00	83.85	83,848.80
20	5.33.1	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. All work upto plinth level				
a	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	Cum	1475.00	10,165.33	1,49,93,861.93
21	5.33.2.1	All works above plinth level upto floor V level				
a	5.3	Concrete of M25 grade with minimum cement content of 330 kg /cum	Cum	970.00	10,545.70	1,02,29,326.87
		Sub Head No.4: Brick works				
28	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
a	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	485.00	7,627.94	36,99,551.57
29	6.4	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
a	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	590.00	9,738.81	57,45,899.98
30	6.13	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.				
a	6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)	Sqm	3000.00	1,201.90	36,05,712.30
31	6.44	Brick edging 7cm wide 11.4 cm deep to plinth protection with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 including grouting with cement mortar 1:4 (1 cement : 4 fine sand).	Metre	594.00	65.08	38,656.97
		Sub Head No.6: Wood work and PVC work				
32	9.21	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				

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S.N.	Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Rate (Rs.)	Amount (Rs.)
a	9.21.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	312.30	2,558.94	7,99,156.70
33	9.21.3	25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws	Sqm	225.00	2,239.21	5,03,822.73
34		Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated bracket.				
a	9.47.1	20 mm dia (heavy type)	metre	550.00	187.16	1,02,939.38
35	9.53	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mx (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size).	each	212.00	244.76	51,888.08
36	9.96	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete :				
a	9.96.1	300x16 mm	each	156.00	324.33	50,594.84
b	9.96.2	250x16 mm	each	84.00	278.71	23,411.78
37	9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
a	9.97.2	250x10 mm	each	312.00	123.15	38,423.71
b	9.97.4	150x10 mm	each	150.00	88.29	13,243.08
c	9.97.5	100x10 mm	each	154.00	69.20	10,656.28
38	9.100	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
a	9.100.1	125 mm	each	310.00	70.85	21,964.86
b	9.100.2	100 mm	each	14.00	63.69	891.64
39	9.101	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.				
a	9.101.1	Single rubber stopper	each	73.00	42.35	3,091.71
40	9.119	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer-in-Charge	metre	170.00	526.94	89,580.25



S.N.	Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Rate (Rs.)	Amount (Rs.)
41	9.120	Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawing.				
a	9.120.1	30 mm thick plain PVC door shutters	sqm	58.20	3,404.17	1,98,122.40
42	10.30	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with :				
a	10.30.1	4.0 mm thick glass panes	Sqm	190.00	1,138.64	2,16,342.20
		Sub Head No.7: Flooring				
43		Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand				
a	11.26.1	25 mm thick	sqm	150.00	2,083.65	3,12,548.01
44		Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locaticns of required size, approved shade, colour and texture laid over 20 mm thick base cementmortar 1:4 (1 cement : 4 coarse sand), joint treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.				
a		Granite of any colour and shade				
	11.26.2.2	Area of slab over 0.50 sqm	sqm	25.00	5,493.27	1,37,331.82

S.N.	Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Rate (Rs.)	Amount (Rs.)
46	8.5	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	Each	16.00	1,046.72	16,747.51
47	8.4	Extra for fixing marble /granite stone, over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive, including cleaning etc. complete	metre	42.00	608.06	25,538.70
48		Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge				
a	8.3.2	Granite work	metre	42.00	546.46	22,951.36
49		Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.				
a	11.3.1	40 mm thick with 20 mm nominal size stone aggregate	Sqm	1404.00	656.89	9,22,269.21
50		Cement plaster skirting up to 30 cm height, with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement				
a	11.6.1	18 mm thick	Sqm	48.00	708.06	33,987.00
51		Providing and fixing glass strips in joints of terrazzo/ cement concrete floors.				
a	11.13.1	40 mm wide and 4 mm thick	Metre	796.00	98.13	78,108.79
52	11.27	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	sqm	78.00	2,518.35	1,96,431.43
53	11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.				
a	11.41.2	Size of Tile 600x600 mm	Sqm	980.00	1,661.41	16,28,186.48
54	11.37A	Providing and fixing 1st quality ceramic glazed floor / wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade, complete	Sqm	725.00	1,190.03	8,62,773.67
		Sub Head No.8 : Finishing				

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S.N.	Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Rate (Rs.)	Amount (Rs.)
55	12.50	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	sqm	2160.00	789.99	17,06,370.14
56	12.51	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete				
a	12.51.1	Ridges plain (500 - 600mm)	meter	160.00	569.35	91,095.73
b	12.51.6	Gutter (600 mm over all girth)	meter	320.00	1,405.00	4,49,600.69
57	12.41	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion,(i) Single socketed pipes.				
a	12.41.1	75 mm diameter	Metre	300.00	266.09	79,827.48
b	12.41.2	110 mm diameter	Metre	1000.00	403.63	4,03,629.30
58	12.42	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.				
		Coupler				
a	12.42.1.1	75 mm diameter	Each	35.00	98.07	3,432.56
b	12.42.1.2	100 mm diameter	Each	75.00	145.61	10,920.93
59	12.42.2	Single pushfit Coupler				
a	12.42.2.2	110 mm	each	59.00	136.47	8,051.62
b	12.42.3	Single tee with door				
60	12.42.3.2	110x110x110 mm	each	54.00	250.42	13,522.86
61	12.42.5	Bend 87.5°				
a	12.42.5.2	110 mm bend	each	54.00	160.80	8,683.16
b	12.42.6.2	Shoe (plain), 110mm dia. Shoe	each	44.00	141.01	6,204.60
62	13.4	12 mm cement plaster of mix : (Cement Plaster in coarse sand)				
a	13.4.2	1:6 (1 cement: 6 fine sand)	Sqm	7945.00	367.53	29,20,055.05
63	13.5	15 mm cement plaster on the rough side of single or half brick wall of mix :				
a	13.5.2	1:6 (1 cement: 6 fine sand)	Sqm	6445.00	422.83	27,25,118.89

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S.N.	Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Rate (Rs.)	Amount (Rs.)
64	13.6	20 mm cement plaster of mix :				
a	13.6.1	1:4 (1 cement: 4 coarse sand)	Sqm	60.00	521.27	31,276.46
65	13.16	6 mm cement plaster of mix				
a	13.16.1	1:3 (1 cement : 3 fine sand)	Sqm	1000.00	321.33	3,21,331.28
66	13.18	Neat cement punning.	Sqm	500.00	85.51	42,753.26
67	13.41	Distempering with 1st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.				
a	13.41.1	New work two or more coats	Sqm	7150.00	198.55	14,19,651.63
68	13.46	Finishing walls with Acrylic Smooth exterior paint of required shade :				
a	13.46.1	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	Sqm	6600.00	171.76	11,33,627.22
69	13.44	Finishing walls with water proofing cement paint of required shade : (Make: Asian, Berger or equivalent)				
a	13.44.1	New work (Two or more coats applied @ 3.84 kg/10 sqm)	Sqm	750.00	125.02	93,768.41
70	13.50	Applying priming coat:				
a	13.50.2	With ready mixed aluminium primer of approved brand and manufacture on resinous wood and plywood	Sqm	220.00	79.84	17,564.40
71	13.50.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works (Make: Asian, Berger)	Sqm	1300.00	72.08	93,709.59
72	13.62	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : (Make: Asian, Berger)				
a	13.62.1	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	Sqm	600.00	241.97	1,45,184.63
73	13.8	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete. (Make: JK Wall Putty/Birla)	Sqm	11400.00	166.90	19,02,608.42
		Sub Head No.9 : Dismantaling & Demolishing				
74	15.3	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	Cum	70.00	3,798.06	2,65,864.33
75	15.7	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.				
a	15.7.4	In cement mortar	Cum	200.00	2,203.38	4,40,676.78
		Sub Head No.10 : Sanitary Installations				



S.N.	Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Rate (Rs.)	Amount (Rs.)
76		Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:				
a	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests (Make: Parryware, Hindware, Jaquar, Cera)	Each	17.00	7,237.73	1,23,041.48
77		Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :				
a	17.3.1	W.C. pan with ISI marked white solid plastic seat and lid (Make: Parryware, Hindware, Jaquar, Cera)	Each	17.00	8,563.06	1,45,572.00
78		Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:				
a	17.7.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps (Make: Parryware, Hindware, Jaquar)	Each	18.00	3,302.30	59,441.31
79	17.8	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings. (Make: Parryware, Hindware, Jaquar, Cera)	Each	16.00	1,800.34	28,805.49
80	17.10	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS: 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :				
		Kitchen sink without drain board				
a	17.10.2.1	610x510 mm bowl depth 200 mm	Each	16.00	5,284.19	84,546.97
81		Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
		Semi rigid pipe				
a	17.28.1	Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989	metre	24.00	111.12	2,666.91
82	17.31	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	Each	34.00	1,719.70	58,469.89
83		Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.				



S.N.	Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Rate (Rs.)	Amount (Rs.)
a	17.73.2	600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms	Each	18.00	758.22	13,648.00
		Sub Head No.11 : Water supply & Drainage				
84		Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge Concealed work, including cutting chases and making good the walls etc.				
a	18.8.2	20 mm nominal outer dia Pipes	Metre	220.00	574.96	1,26,491.90
b	18.8.3	25 mm nominal outer dia Pipes	Metre	220.00	670.84	1,47,585.65
85	18.9	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge				
a	18.9.1	15 mm nominal outer dia Pipes	Metre	198.00	293.36	58,086.04
86		Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge				
a	18.9.2	20 mm nominal outer dia Pipes	Metre	150.00	293.36	44,004.58
b	18.9.3	25 mm nominal outer dia Pipes	Metre	150.00	380.10	57,015.05
87		Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
a	18.17.1	25 mm nominal bore	Each	26.00	665.66	17,307.08
b	18.17.1 A	20 mm nominal bore	Each	26.00	577.48	15,014.39
88		Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :				
a	18.18.3	25 mm nominal bore	Each	26.00	496.30	12,903.84
89	18.22	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :				
a	18.22.2	150 mm diameter	Each	16.00	237.80	3,804.85
90		Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.				
a	18.48.A	Circular tank	Per litre	18000.00	11.76	2,11,761.00
92		Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				

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S.N.	Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Rate (Rs.)	Amount (Rs.)
a	18.49.1	15 mm nominal bore	Each	50.00	542.02	27,101.13
93		Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.				
a	18.51.1	15 mm nominal bore	Each	33.00	854.48	28,197.74
94		Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.				
a	18.52.1	15 mm nominal bore	Each	49.00	717.05	35,135.27
95		Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931				
a	18.53.1	15 mm nominal bore	Each	74.00	614.21	45,451.82
96	19.32	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design.				
a	19.32.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	5.00	28,728.80	1,43,644.01
		Sub Head No.13: Water proofing				
97	22.3	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of: (i) Ist course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface. (ii) IInd course of 20 mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface. (iii) IIIrd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area. (iv) IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/ sqm).	Sqm	160.00	823.09	1,31,693.95



S.N.	Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Rate (Rs.)	Amount (Rs.)
38	22.7	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: (a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs. (c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge. (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement : 4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. "All above operations to be done in order and as directed and specified by the Engineer-in-Charge :				
a	22.7.1	With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	Sqm	565.00	1,801.68	10,17,949.03
		Sub Head No.14: Steel Items (DSR Items)				
39		Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete up to plinth & above plinth level				
a	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500 D or more.	kg	235000.00	115.35	2,71,06,210.13
100		Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.				
a	9.48.1	Fixed to openings /wooden frames with rawl plugs screws etc.	kg	14450.00	234.33	33,86,031.65
101	10.2	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	kg	142000.00	142.99	2,03,04,885.30



S.N.	Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Rate (Rs.)	Amount (Rs.)
102	10.17	Providing and fixing M.S. fan clamp type I or II of 16 mm dia M.S. bar, bent to shape with hooked ends in R.C.C. slabs or beams during laying, including painting the exposed portion of loop, all as per standard design complete.	Each	90.00	241.71	21,753.63
103	10.25.2	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
a	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	kg	700.00	184.60	1,29,216.99
104	10.28	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	kg	1050.00	826.08	8,67,385.89
		Sub Head No.15: Road Work (DSR Items)				
105	16.1	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earthwith lead upto 50 metres.	sqm	960.00	234.11	2,24,749.01
106	16.32.2	Supplying and stacking at site. 63 mm to 45 mm size stone aggregate	cum	240.00	1,749.76	4,19,941.31



S.N.	Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Rate (Rs.)	Amount (Rs.)
107	16.4	Laying, spreading and compacting stone aggregate of specified sizes to WBM specifications in uniform thickness, hand with 3 wheeled road/vibratory roller 8-10 tonne proper grade and camber, applying and brooming screening / binding material to fill up interstices of coarse aggregate, watering and compacting to the required density.	cum	240.00	1,119.71	2,68,731.13
108	16.43	Providing and laying design mix cement concrete of M-30 grade, in roads/ taxi tracks/ runways, using cement content as per design mix, using coarse sand and graded stone aggregate of 40 mm nominal size in appropriate proportions as per approved & specified design criteria, providing dowel bars with sleeve/ tie bars wherever required, laying at site, spreading and compacting mechanically by using needle and surface vibrators, levelling to required slope/ camber, finishing with required texture, including steel form work with sturdy M.S. channel sections, curing, making provision for contraction/ expansion, construction & longitudinal joints (10 mm wide x 50 mm deep) by groove cutting machine, providing and filling joints with approved joint filler and sealants, complete all as per direction of Engineer-in-charge (Item of joint fillers, sealants, dowel bars with sleeve/ tie bars to be paid separately). Note:- Cement content considered in M-30 is @ 340 kg/cum. Excess/ less cement used as per design mix is payable/ recoverable separately.				
a	16.43.2	Cement concrete manufactured in automatic batching plant (RMC plant) i/c transportation to site in transit mixer	cum	265.00	11,869.79	31,45,494.95
109	16.53	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	RM	360.00	401.92	1,44,690.52
110	16.91	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in-Charge.				
a	16.91.2	80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.	Sqm.	1,250.00	1,167.36	14,59,199.06
Subtotal Sch. A (Rs.)						14,27,54,459.54



S.N.	Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Rate (Rs.)	Amount (Rs.)
		Schedule -"B" (P.way, Track work)				
1		Earthwork in filling in embankment, guide bunds, around buried type abutments, bridge gaps, trolley refuges, platforms etc. with contractor's own earth conforming to Soil Quality Class SQ1/SQ2/SQ3, after preparation of foundations as applicable, benching in existing banks wherever required, spreading in layers with motor grader, bringing the moisture content to OMC, mechanical compaction to specified density and dressing of bank to final profile as per RDSO Specifications: RDSO/2020/GE: IRS-0004 with latest correction slips. Note: 1) Foundation preparation, Benching including additional earthwork on account of this, wherever required, shall be paid extra under relevant schedule item for benching.				
(a)		Using Soil Class SQ1	cum	13000.00	418.81	54,44,471.57
2		Supplying and providing of blanketing material conforming to RDSO's specification spreading in layers of thickness approved by Engineer-in-charge in loose state, watering/drying and compacting the same with contractor's heavy duty power driven vibratory roller of 10-12 tonnes capacity of thickness as directed by Engineer-in-charge on the top of formation, levelling and dressing the same as per RDSO'S specification and latest guidelines issued by RDSO/Railway board and as directed by Engineer-in-charge. Rate includes finishing blanketing material, already compacted in accordance with specification - over embankment including side/cutting. Rates are including GST.	Cum	1745.00	5,667.83	98,90,368.34
3		Manufacturing, supplying and stacking of 50mm (65mm to 20mm well graded) size machine crushed stone ballast for railway track as per relevant RDSO specification as directed by engineer including all lead, lift ascent, descent and crossing of track, level crossing, ravel and nullah ect. and any other obstruction, if any ect. and all charges such as roylaty, TP, sales tax, octroi or any other taxes levied from time to time with contractor's own labour, tools and plants equipments and machineries ect. Complete as per Railway Specification. the rate is also inclusive of cleaning dressing of stack yard ground making pathway or approach road ect. Required for successful completion of work	Cum	1625.00	6,626.68	1,07,68,347.65



S.N.	Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Rate (Rs.)	Amount (Rs.)
4		Supply of full set 1 in 12 52kg BG point and crossing for curved Switch as per RDSO drawing no T- 4732, Switch sub assembly (T-4733) Crossing sub assembly (T-4734) CMS crossing (T-4734/1) (all drawing with up to date alternation) with fitting and fasenting including GR pad check rail 1 m long fish plates with bolt ect. for complete layout on 1 in 12 T/ out Curve switches. the rate include cost of all material Warranty, packing, loading, freight insurance, transportation, unloading, stacking at designated stores/ work sites all taxes, inspection change by RITES/RDSO ect. complete but rate dosenot include cost of PSC Sleeper and rail for lead rail.	Set	3.00	13,10,359.06	39,31,077.19
5		Supply of full set 1 in 8.5 52kg points and crossings for switch as per RDSO drawing no. T-4865, switch sub assembly drawing T-4866, Crossing sub assembly drawing no T-4867 and CMS Xing T-4867/2 (all drawing with up to date alternation) with fitting and fasenting including GR pad check rail 1 m long fish plates with bolt ect. for complete layout on 1 in 8.5 T/ out Curve switches. the rate include cost of all material Warranty, packing, loading, freight insurance, transportation, unloading, stacking at designated stores/ work sites all taxes, inspection change by RITES/RDSO ect. Complete but rate dosenot include cost of PSC Sleeper and rail for lead rail.	Set	2.00	9,91,885.32	19,83,770.63
6		Supply of de-railing Switch (1 in 8.5) including GR pad, fitting and fasenting for BG 52 kg rail section for use with 60kg PSC Sleeper to Drg. No- RDSO/T- 5836 pr as per latest application RDSO drawing with latest alternation as per RDSO specification including trasportation to work site. Rate shall include all texes, Warranty, freight insurance, packing, transportation, loading,unloading,with all lead lift, contractor labour, machine tools plants, inspection charges by RITES/RDSO, etc. complete but rate dosenot include cost of PSC sleeper.	Set	5.00	3,47,215.60	17,36,078.02
7		Manufacturing and supply of pestressed mono- block concrete fanshaped Turnout sleeper set of 1 in 12 (pre-tensioned type) for board gauge 1673 as per RDSO drawing No T -4218 for genaral layout and part drawing there of suit 60 kg ULC Rail and IRS Specification no T- 45-96 second revision May'96 (each set consist of 96 nos. sleeper) duly ammended in accordance with the recommendation made by track standard committee as ammended time to time / latest alternation up to date including all texes and after inspection as per direction of engineer in charge. the rate include cost of all material, loading transportation, unloading, stacking at desigunated stores/ work sites all taxes, inspection charge etc. complete.	Set	3.00	7,27,967.29	21,83,901.88



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S.N.	Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Rate (Rs.)	Amount (Rs.)
8		Manufacturing and supply of prestressed mono- block concrete fanshaped Turnout sleeper set of 1 in 8.5 (pre-tensioned type) for boardgauge 1673 as per RDSO drawing No T -4865 altv for general layout and part drawing there of suit 60 kg ULC Rail and IRS Specification no T- 45-96 second revision May'96 (each set consist of 67 nos sleeper) duly ammended in accordance with the recommendation made by track standard comitee as ammended time to time / latest alternation up to date including all texes and after inspection as per direction of engineer in charge. the rate include cost of all material, loading transportation, unloading, stacking at desigunated stores/ work sites all taxes, inspection charge etc. complete.	Set	2.00	5,13,912.13	10,27,824.26
9		Manufacturing and supply of prestressed mono- block concrete fanshaped (pre-tensioned type) for boardgauge derailing switch as per RDSO drawing No T -6068 for general layout and part drawing there of suit 60 kg ULC Rail and IRS Specification no. T- 45-96 second revision May'96 (each set consist of 31 nos sleeper) duly ammended in accordance with the recommendation made by track standard committee as ammended time to time / latest alternation up to date including all texes and after inspection as per direction of engineer in charge. the rate include cost of all material, loading transportation, unloading, stacking at desigunated stores/ work sites all taxes, inspection charge etc. complete	Set	5.00	2,03,844.80	10,19,224.00
10		Manufacturing & supply of prestressed mono- block concrete sleeper (pre-tensioned type) for Board Gauge (1673mm) as per RDSO's drg. No T-2496 to suit 60kg ULC Rail as per RDSO desing and IRS Specification noT- 39-58 (Fourth Revision Aug' 2011) as amended/latest alteration up to date including all texes and after inspection as per decision & direction of Engineer-in-charge. the rate include cost of all material, loading, trasportation, unloading, stacking at desigunated stores/ work sites all taxes, inspection change etc. complete	Each	819.00	4,239.07	34,71,801.30
11		Supply of Fish plates of one meter long for 52 Kg Rail as per standard drawing RDSO Drg. No.T- 5915 or any latest version drawing issued by RDSO & Conforming to IRS specification No. T-1-1966 and corregendum of November, 2009. The rate shall inclisive of transporation to work site, all type of taxes.	Pair	146.00	5,895.55	8,60,750.47
12		Manufacture & supply of various fish bolts & nuts 52 kg, (25x130mm long) to RDSO Drawing no. T-11501.	Nos.	876.00	102.43	89,729.20
13		Supply of Elastic Rail clips to RDSO Drg. No. T-3701 (Alt.4) conforming to IRS specifications T-31/92 corrigendum no. 2 of April 1999. The rate shall inclisive of transporation to work site, all type of taxes, inspection charges, freights, insurance, insurance, packing, loading / unloading with all lead, lift, contractors labour, machineries tools and plants etc. complete.	Each	5212.00	141.79	7,38,992.92



S.N.	Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Rate (Rs.)	Amount (Rs.)
14		Supply of Grooved Sole Rubber Plate to RDSO Drg No. T-3711 and conforming to IRS specification with ammendment if any The rate shall inclisive of transporation to work site, all type of taxes, inspection charges, freights, insurance, packing, loading, unloading with all lead, lift, contractor's labour, machineries tools and plants etc. complete.	Each	2024.00	54.33	1,09,962.97
15		Supplyof GFN Liner to RDSO Drawing no. T-3707(GS) and 3708(NGS) comfirming to IRS Specification T-44-1995 as per latest corrigendum . The rate shall be inclisive of transporation to work site, all type of taxes inspection changes, freights,insurece, packing, loading, unloading with all lead, lift, contractor's labour, machineries, tools & plants ect. complete	Each	5212.00	70.23	3,66,043.22
16		Assembling complete BG Turnout on staging, clear of infringements, to correct gauge and alignment as per standard drawings with all types of rail sections over PSC sleepers at specified locations, duly leading rails, special sleepers, switches, crossings with a maximum lead of 500m, all lift & crossing of track as required and testing points with S&T staff for throw of switch etc. at station yard after levelling surface complete including lubrication of all fastenings, complete in all respect.				
(a)		1 in 8½ Turnouts	Set	2.00	47,571.47	95,142.93
(b)		1 in 12 Turnout	Set	3.00	53,419.65	1,60,258.96
17		Assembling all types of Switches on staging, clear of infringements, to correct gauge and alignment as per standard drawings with all types of rail sections over PSC sleepers at specified locations, duly leading rails, special sleepers, switches with a maximum lead of 500 m, all lift & crossing of track as required including cutting, drilling, fixingofall components, fittings etc. with housing of tongue rails as per requirement of signaling including lubrication of fittings/fastenings, complete in all				
a		1 in 8½ Turnouts	Set	2.00	22,344.05	44,688.09
b		1 in 12 Turnouts	Set	3.00	25,683.83	77,051.49
18		Laying of new board gauge P.way track with 52kg/60kg PSC sleeper on formation/ballasted deck bridge/curve/yards in straight line or curve with rail and PSC Sleeper including special PSC sleeper meant for ballasted deck bridges and level crossings, curves, ect. with their complete fittings such as grooved rubber pad metal liners /GFN liners ER clips, J clip, bolts screw ect at specified sleeper density of 1660 per km suitable for FP/SWR-LWR tracks with initial through packing and lifting of track in stages as directed by engineer in charge to bring the ballast cushion of about 300/350mm correct longitudanal profile and cross-level with tolerances as specified for making track fit for introduction of tamping machine, running of ballast trains. The rate includes all free leads, lift, loading, unloading, ascent, descent, removal of kinks in rail by hydraulic jim crow, cost of contractor's labour, tools and plants, eqiipment , all texes and all other incidental charges etc. complete. The rate dose not include cost of transportation of PSC sleeper & rails.	Track Meter	662.00	708.72	4,69,171.02



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S.N.	Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Rate (Rs.)	Amount (Rs.)
19		Construction of Sanded Dead End as per RDSO's Drawing no. RT 347 (with all amendments)with brick-work using country bricks or CC bricks in mud mortar and filling withriver coarse sand, surrounding rails and filling around. Note: Cost of brick and sand is not included in the rate.	Each	3.00	13,161.64	39,484.92
20		Fabrication assemblt in situ G3 (L) type glued insulated rail joints for broad gaugr 52/60 Kg. with all contractors materials, labor, to & fro transportaion of materials, octorai etc. complete in all respect as per RDSO/T-671 with 6mm thick end post including rail cutt ng, cleaning of ends, drilling of rail ends chamfering of holes during	Each	10.00	19,561.16	1,95,611.55
		Subtotal Sch. B (Rs.)				4,47,03,752.58



S.N.	Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Rate (Rs.)	Amount (Rs.)
		Schedule "C" (General Electrical Works)				
1	1	Wiring for light/ ceiling fan/exhaust fan/call bell/light plug/ group etc. points including circuit wiring, sub main wiring with Fire Retardant (FR), PVC insulated, multistranded, copper conductor, single core cable on surface/in recessed PVC conduits, distribution boards, sub distribution boards, earthing etc. as required. Wiring shall be done as per sizes of cables, no. of points permissible in each circuit and sub mains as indicated in Explanatory Notes.	Points	496.00	1,781.79	8,83,766.35
2	2	Wiring for power plug point including circuit wiring, sub main wiring with Fire Retardant (FR), PVC insulated, multistranded, copper conductor, single core cable on surface/in recessed PVC conduits, distribution boards, sub distribution boards, earthing with G.I. pipe electrode etc. as required. Wiring shall be done as per sizes of cables, no. of points permissible in each circuit and sub mains as indicated in Explanatory Notes.	Points	61.00	3,271.60	1,99,567.63
3	3	Extra for provision of industrial type iron clad plug socket with 32A DP MCB in M.S. Box	Points	48.00	893.03	42,865.56
4	4	Energy efficient BEE 5 star rated BLDC ceiling Fan 1200 mm sweep with 3 leaves suitable to operate on single phase 140 volt to 230 volt range with remote control consuming power not more than 28 watt.	Each.	72.00	1,764.68	1,27,056.60
5	5	Supply, erection, testing, commissioning of exhaust fan suitable for 1- phase, 230 Volts, AC supply system complete with capacitor, louver shutters, grouting bolts with nuts, making opening/ modification in the wall to suit the size of the fan, making good the damages, connections with 1.5sq. mm FR, PVC insulated, multi stranded copper conductor, single core/ three cable as instructed, earthing etc. as required.		0.00		
i	i	AC exhaust fan 450 mm with/ without louver shutters.	Nos.	54.00	10,008.38	5,40,452.57
6	6	Supply, installation, testing and commissioning of wall mounted single phase 230 V , 50Hz air circulating fan of 700-750mm sweep including all accessories.	Nos.	12.00	14,426.49	1,73,117.83
7	7	Supply and installation of 1x20W LED Tube light fitting complete (Retrofit type), 5star BEE rating, Aluminium Housing, 6500K cool day light, minimum 100 Lumen/watt at least 2 year warranty or equivalent as approved by engineer	Nos.	226.00	150.18	33,940.50
8	8	Supply, erection, testing and commissioning of LED flood light fittings pre die cast aluminium IP- 65 with high power LED as light source with system wattage 90-110 w suitable to work on 220- 240V AC supply as approved by Engineer.	Nos.	25.00	18,831.76	4,70,793.90
9	9	Supply, Installation, Testing & Commissioning of cubical type wall mounted, dust & vermin proof, LT control switch board conforming to IS:8623 (latest version), complete, with a) TPN MCCB 150A, 35kA, fixed type (Ics=100% Icu) -1 No. b) copper busbars 300A (for 25kVA AT).	Nos.	3.00	29,685.04	89,055.13

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S.N.	Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Rate (Rs.)	Amount (Rs.)
10	10	LT switch board 125Amp comprising of the items indicated as under i) incoming MCCB 125A, 4 pole, 35kA, fixed type (Ics=100%Icu) - 1 No ii) Outgoing MCCB 63A, 25kA, fixed type (Ics=100%Icu) - 4 Nos iii) Outgoing MCB 40A, 4 pole, 10kA - 4 Nos iv) Outgoing MCB 32A, double pole, 10kA-4Nos v) Outgoing MCB 32A, Single pole, 10kA-4Nos vi) Sleeved/Epoxy coated copper busbar 250A in bus bar Chamber vii) CT's Indication lights.	Nos.	1.00	1,26,929.33	1,26,929.33
11	11	LT feeder pillar 250Amp comprising of the items indicated as under i) Incoming MCCB 250A, FP 35kA (Ics=100%Icu) Fixed Type - 1 No ii) Outgoing MCCB 125A, FP 35kA (Ics=100%Icu) Fixed Type - 2 Nos iii) Outgoing MCCB 63A, FP 25kA (Ics=100%Icu) Fixed Type - 4 Nos iv) Outgoing MCB 40 Amps, FP, 10kA - 4 Nos v) Outgoing MCB 32 Amps DP 10kA - 4 Nos vi) Outgoing MCB Single pole 32A, 10kA -4 Nos vii) Modular digital time switch and 3 phase contactor 63 A - 2 Set viii) Sleeved/Epoxy coated copper bus-bar 400A in bus bar Chamber. ix) Indication lights.	Nos.	1.00	2,42,864.20	2,42,864.20
12	12	Supply and erection of GI pipe 50mm dia - class 'B' ISI marked with accessories including bends etc. for support of cable with erected pole/ recessing in wall/ floor/ passing earth strip OR passing cable	Meter	100.00	606.41	60,640.65
13	13	Supply, trenching and laying of 1.1 KV grade LT XLPE insulated armoured, aluminium conductor cable, making good the damages, end terminations with aluminium crimping socket/ plugs, provisions of cable route markers, testing & commissioning etc. as required as per technical specifications.		0.00		
i	i	2 Core 16 sq.mm	Meter	1400.00	388.23	5,43,519.90
ii	ii	4.0 Core 35 sq.mm	Meter	4500.00	687.69	30,94,598.25
iii	iii	4.0 Core 70 sq.mm	Meter	2900.00	1,098.38	31,85,291.85
iv	iv	4.0 Core 120 sq.mm	Meter	800.00	1,725.10	13,80,082.80
v	v	Trenching work	Meter	5240.00	252.40	13,22,586.48
14	14	Earthing with 3 meter long, 50mm dia, G.I. pipe class 'B' earth electrode, adding the charcoal or coke and salt, providing concrete enclosure and MS cover plate with lifting arrangement etc. including connections with 4mm G.I. wire from earth electrode to switch board / electrical equipment as required.	Each	38.00	4,332.54	1,64,636.69
15	15	Supply and Laying of HDPE 160mm dia pipe as per IS: 4984- 1995 (PN-4/PE-80, with minimum wall thickness of 6.2mm) of different sizes under the Railway track with trenchless boring method and making good the damage as required.	Meter	950.00	1,932.59	18,35,957.18

S.N.	Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Rate (Rs.)	Amount (Rs.)
16	16	Supply, erection, testing and commissioning of LED Street Light fittings with luminaries 220-240V AC 50 Hz, CRI>70, IP-65 Pf >0.95, cool white, integral driver, lumen output 3500lm confirming to IEC 60598 and IC 10322 and make Crompton Greaves, Philips, Bajaj & Havells		0.00		
i	i	Street LED Light 36 W	Each.	47.00	10,858.64	5,10,356.28
17	17	Provide and making of foundation around the existing pole by cement concrete (1:1.5:3) including excavation of earth work and making of foundation up to 300mm above the ground level and 600mm below the ground level with all material as per direction of engineer incharge at site	Each.	18.00	776.11	13,970.07
13	18	Supply erection and testing of hot dip galvanized tapered octagonal pole of 6.0 Mtr. long top dia 70 mm and bottom dia 130 mm, sheet thickness 3 mm, base plate dimensions (LxBxT) 220mm x 220mm x 12mm and foundation bolt size (No. X Dia. X Length) (4 Each. x M20 x 600 mm), PCD 205 mm, anchor plate thickness 3mm with hot dip galvanized single arm bracket 300 mm long (Octagonal pole shall confirm to IS: 2629 or latest) Note 1. Galvanized thickness of pole should be minimum 65 microns and test report to be submitted by contractor at the time of supply. 2. Octagonal Pole have flush door arrangement and suitable size & length of cable connecting for incoming and outgoing cable as per standards	Each	18.00	7,784.42	1,40,119.56
19	19	Supply and installation of 1x9W LED Bulb fitting complete, Philips, Bajaj, or equivalent as approved by engineer	Each	190.00	107.27	20,381.46
20	20	Supply and installation of Door Bell (Ding-Dong) fitting complete, Anchor or equivalent as approved by engineer	Each	16.00	176.68	2,826.90
21	21	Design and Preparation of working & completion drawings of all HT/LT electrical installations of the project section where work is carried out such as platform lighting, internal electrification of staff quarters, level crossings, station building, offices, power line crossings, power supply distribution arrangements of stations/sub-stations, electrification of sub-station buildings etc & approval from the competent authority.	Job	1.00	2,28,669.80	2,28,669.80
22	22	Supply and testing of 150 Watt LED High Bay Light fixture with following wattage rating and as per technical specifications attached, including accessories for installation on existing GI pipe bracket/ Street Light pole and 1 meter FR PVC insulated copper conductor flexible cable of size 1.5 sq. mm, complete as per instructions of official-in-charge.	Each	6.00	6,375.29	38,251.74
		Subtotal Sch. C (Rs.)				1,54,72,299.19



S.N.	Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Rate (Rs.)	Amount (Rs.)
		Shedule "D"(OHE arrangement of Tripshed)				
1	16001 OHE-1	Preparation and submission of designs and drawings for Overhead Equipment, Switching Station, Sectioning diagram, Power supply diagram, Schematic diagram of Switching Stations, Traction Working Rule Diagram and Instructions etc. required for commissioning of OHE.	TKM	0.60		
		Supply			2,440.64	1,464.38
		Erection			35,382.48	21,229.49
2	30006A CS-6(a)	Foundation of M1C Grade	Cum	46.208		
		Supply			6,529.77	3,01,727.84
		Erection			2,112.74	97,625.49
3	30009 CS-9	Supply & Erection of Mast	MT	6.893		
		Supply			1,32,659.79	9,14,423.91
		Erection			6,276.25	43,262.16
4	21002 OHE-25(a)	Supply and erection of section insulator assembly and associated fittings & fasteners for OHE with Bar Insulator	LS	5.00		
		Supply			1,07,900.73	5,39,503.64
		Erection			7,093.17	35,465.86
5	30023 B CS-23(b)	Supply and Erection of 25kV, 1250A, Double Pole Isolator with insulator, with/without earth contact assembly and with /without interlock.	LS	2.00		
		Supply			1,18,895.99	2,37,791.98
		Erection			3,677.86	7,355.72
6	30023A	Supply and Erection of 25kV, 1250A, Single Pole Isolators with insulator, with/without earth contact assembly and with /without interlock.	Each	5.00		
		Supply			73,282.22	3,66,411.08
		Erection			3,677.86	18,389.29
7	20002	Supply of contact wire (HDGCC 107/150 Sq.mm) only.	MT	0.571		
		Supply			10,82,704.29	6,17,920.99
		Erection			70,058.46	39,983.76
8	20003	Supply of cadmium copper catenary wire (65 Sq. mm) only.	MT	0.358		
		Supply			10,82,704.30	3,88,019.57
		Erection			70,058.46	25,107.55



S.N.	Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Rate (Rs.)	Amount (Rs.)
9	20001	Supply and Erection of Over Head Equipment i.e. contact & catenary wire (excluding cost of supply of contact & catenary wires), jumper wire, dropper wire, contact/catenary clips, fasteners and all other material required at turn out/ overlaps/ diamond crossings etc. Final checking of OHE and adjustment, inspection to be done by tower wagon for commissioning of conventional OHE.	TKM	0.60		
		Supply				
		Erection			66,496.16	39,897.70
10	21008 OHE-31	Supply of materials and erection of a large copper jumper (160sqmm) between aluminium/Copper busbar and OHE , cross feeder to OHE etc with all associated fittings	Each	20.00		
		Supply			12,464.60	2,49,292.05
		Erection			1,070.45	21,409.10
11	21009 OHE-32(a)	Supply and Erection of solid copper busbar 18 mm dia including all connectors, bus splice etc.	Mtr	50.00		
		Supply			4,822.68	2,41,134.05
		Erection			525.09	26,254.32
12	30026 CS-26	Supply & Erection of 25kV Support/ Post insulators with fittings and fasteners.	Each	20.00		
		Supply			5,547.21	1,10,944.20
		Erection			208.46	4,169.12
13	19003 (a)	Supply and Erection of bracket assembly with insulators	Each	22.00		
		Supply			24,425.53	5,37,361.60
		Erection			1,367.93	30,094.43
14	19003(a)	Extra on erection under Power Block.	Each	3.00		
		Supply				
		Erection			1,367.93	4,103.79
15	19001	Supply and Erection of a guy rod assembly.	Nos	2.00		
		Supply			10,230.17	20,460.34
		Erection			1,587.65	3,175.31
13	19004	Supply and Erection of regulating equipment (3 pulley type) with counter weight assembly for conventional OHE.	Set	2.00		
		Supply			80,608.64	1,61,217.27
		Erection			5,916.80	11,833.60
17	19005 OHE-20(a)	Supply and Erection of material for termination of double Overhead Equipment conductor With Porcelain Insulators 1050mm CD.	Set	2.00		
		Supply			17,123.90	34,247.81

S.N.	Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Rate (Rs.)	Amount (Rs.)
		Erection			1,493.00	2,986.00
18	19007	Supply and Erection of a structure bond/longitudinal bond/ transverse and special bond.	TKM	0.60		
		Supply			28,682.56	17,209.53
		Erection			9,150.70	5,490.42
19	21013	Supply and Erection of Retro-reflective type boards - 25kV AC OHE danger board/ danger board for height gauge, public, staff caution board and special boards required for commissioning of OHE/SWSSs.	Each	40.00		
		Supply			508.18	20,327.38
		Erection			180.29	7,211.49
20	24026	Supply and erection of earth electrode.	Each	8.00		
		Supply			3,676.73	29,413.85
		Erection			1,433.28	11,466.26
21	30009	SPS Fitting	MT	0.50		
		Supply			1,32,659.79	66,329.89
		Erection			6,276.25	3,138.12
22	30015A	Dismantling of Redundent foundation with compressor powered machines/manually with contractor's own men and material incl. consumables like Diesel Oil etc.	Each	3.00		
		Supply				
		Erection			5,883.32	17,649.96
		Subtotal Sch. D (Rs.)				53,32,500.29



S.N.	Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Rate (Rs.)	Amount (Rs.)
		Schedule "E" (Alteration in EI and PI of various station)				
A		Schedule A: Supply of Signalling items				
	1	Supply of Wago/phoenix screwless 4 conductor disconnecting terminal suitable for copper wire of 0.5 sqmm to 4 sqmm as per spec no. RDSO/SPN/189/2004 ver 1.2. This also includes end stopper, End plate, Carriage Rail, Marker Strip etc. for the fixing of terminals.	Nos	2500	96.02	2,40,046.92
2	2	Supply of DC Track circuit Equipment including battery charger, 'B' type choke, adjustable Track Feed Resistance, QTA2 relay, QSPA1 relay, Fuse block, ND type fuses, 80 AH batteries etc.	Set	18	26,422.90	4,75,612.27
a	a	Supply of Track feed battery charger 110V AC/6 V DC - suitable to charge 3 cells of 80 AH, to IRS-S-89/2013 or latest RDSO specification. - 1 no				
b	b	Supply of 'B' type choke as per specification No.IRS-S-65/83 amndt-1 or latest RDSO specification. - One in AC RE Area, Two as per Railway Practice				
c	c	Supply of adjustable Track Feed Resistance (Disc type) 30 ohms as per RDSO Drg. No. SA 20166/M (Adv) with latest amendments (with Phenolic moulded base)or latest RDSO specification. - 1 no				
d	d	Supply of Relay DC track plug in type neutral, 9 ohms, tractive armature 2 F/1B with front contacts metal to carbon (QTA 2 type) complete with plug board, retaining clip and connector to BRS-939A, and BRS-966(appendix F-2), IRS-S-34/68 & IRS-S-23/86. Or QBAT track relay, 9 ohms, 2F/2B complete with plug board, retaining clip and connector as per RDSO/SPN/84/88 - 1 no				
e	e	Supply of Relay DC plug in neutral line slow to pickup tractive armature 24 VDC 8F/4B contacts, front & back contacts metal to carbon complete with plug board, retaining clips & connectors etc. to BRS-933/933A, IRS-S-34/68, IRS-S-23/86 & IRS-S-60 similar to QSPA1 interlocking code ABDEJ -1 no				
	f	Supply of Fuse block made of PBT as per IRS:S-75/2006 Rev 2 & drg.No. SA-23748. along with supply of Non deteriorating type fuses as per IRS-S-78/92 to suit the bases supplied of Capacity as per requirement and wiring diagram - in quantity as per requirement. This includes replacement of fuses blown off during testing and commissioning.				
g	g	Supply of Stationary low maintenance Secondary lead acid cells as per RDSO specification IRS-S-88/2004 with topping up frequency upto 6 months. This includes supply of inter cell connectors, bolts, nuts, acid level indicating floats and vent plugs.2 Volts, 80 AH min 3 battery for each set				
	3	Supply of FRP Shunt signal Dependent type complete along with offset bracket (without lenses and lamps) as per spec.no. RDSO/SPN/194/2006 Ver 2.0 or latest	Nos	11	14,503.01	1,59,533.10
	4	Supply of LED Signal Lighting Unit for Shunt Signals as per specification No. RDSO/SPN/153/2011 (Rev 4.1).	Nos	33	7,977.91	2,63,270.94



S.N.	Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Rate (Rs.)	Amount (Rs.)
5	5	Supply of QNA1 AC immunised relay (for outdoor), 24V DC , 8F/8B along with plug-in board, retaining clip and connectors conforming to BRS:931A,IRS:S60,IRS:S34 & IRS:S23 or latest.	Nos	11	4,452.35	48,975.83
6	6	Supply of Electrical point operating machine - IRS Type,143 mm throw (AC immunity 160 V AC), non trailable to operate on 110 V DC with lock & detector slides, Cable terminal box confirming to IRS:S-24/2002 or latest RDSO specification & for Motor IRS: S37/82, Assy Drg RDSO-S:10800 & S:10910 with complete Ground connection for 143 mm throw IRS type machine with latest amendments.	Nos	11	94,808.10	10,42,889.07
7	7	Supply of Key Lock Relay AC immunized with different ward combinations (one extra set of ward plate for Point Machine to be supplied with each relay) of RDSO approved make working on 60/24V DC, Siemens type or equivalent.	Nos	5	6,895.61	34,478.04
8	8	Supply of HRC Fuses 2A / 4A / 6A (Spec. No. IRS:S-78/92) with Fuse Block (Spec. No.IRS:S-75/2006 (Rev.2) and drg. no. SA- 23748 (Alt.4)).	Nos	70	278.66	19,506.42
9	9	Supply of 5 Amp switch, 3 pin socket , lamp holder along with 110Volt/15W LED lamp (Anchor make).	Nos	20	509.32	10,186.34
10	10	Supply of ARA Terminal blocks with links, 6 Way, made of PBT Specn No.IRS/75/2006 (Amd - 2) or latest RDSO specification and RDSO Drg.No.SA-23756 Alt.3.	Nos	600	302.67	1,81,600.71
11	11	Supply and Installation of normal Earth Electrode for earthing of S&T installations with all the associated materials as per extant practice of NFR	Nos	18	3,584.00	64,512.09
12	12	Supply and fixing of RCC cable route marker engraving of Signal/Telecom cable one side and Zonal Rly on other side as per WCR Railway Practice and painting on both sides of marker with numbering with black paint . The markers should be fixed for a maximum of 50 mtrs to locate the Signaling/Telecom cable path and the marker should be visible about one feet above the ground for the clear visibility, the remaining portion of marker should be buried in the ground. Wherever track crossing are available, RCC markers are to be provided on both sides of the track for easy identification. All required materials (Supply, painting, transportation to site and fixing) are to be arranged by the Contractor.	Nos	35	1,281.64	44,857.46
13	13	Supply of DWC pipe with one snap fit coupler and 'O' ring conforming to RDSO/SPN/204/2011 Ver. 1.1or latest RDSO specification , Non metallic, corrugated, multiwalled, normal duty, pliable, without protection against chemical attack and Non flame propagating in 6 meter length of size 120 mm outer dia & 102 mm inner dia.(Permitted tolerance in dia = +/- 2 mm).	Meter	250	295.36	73,840.52
14	14	Supply of SPLIT DWC pipe conforming to RDSO/SPN/204/2011 Ver. 1.1 or latest RDSO specification, Non metallic, corrugated, multiwalled, normal duty, pliable, without protection against chemical attack and Non flame propagating in 2 meter length of size 200 mm outer dia & 175 mm inner dia.(Permitted tolerance in dia = +/-2 mm) (TWO half round pipe constitute one split pipe)	Meter	2200	368.42	8,10,523.65



S.N.	Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Rate (Rs.)	Amount (Rs.)
15	15	Supply of Galvanized Iron pipe 100 mm dia medium grade with screw end both side and fitted with sockets as per specn. No.IS-1239, part 1 / 1990 or latest in length of approx 6 meters	Meter	220	1,277.47	2,81,042.76
16	16	Supply of PVC insulated armoured, unscreened, underground Railway signalling cable 12 Core 1.5 sqmm (copper cable) as per Specification no. IRS-S-63/2014 (Rev 4.0) or latest. Drum no. and name of consignee to be painted on the cable drum.	KM	27	2,41,248.20	65,13,701.41
17	17	Supply of PVC insulated armoured, unscreened, underground Railway signalling cable 6 Core 1.5 sqmm (copper cable) as per Specification no. IRS-S-63/2014 (Rev 4.0) or latest. Drum no. and name of consignee to be painted on the cable drum.	KM	2	1,54,432.62	3,08,865.24
13	18	Supply of underground Jelly filled 6 Quad cable of size 0.9 sqmm dia for signalling and telecom installation as per specn no. IRS:TC-30/2005 (Ver-1) with ammendment no. 5 or latest.	KM	3	3,64,867.15	10,94,601.44
13	19	Supply of Polythene insulated Sheathed Jelly Filled Telephone cable 20 Pair of Size 0.63 mm with poly -Al moisture Barrier as per IRS TC 41/97.	KM	0.9	1,47,758.27	1,32,982.45
20	20	Supply of Polythene insulated Sheathed Jelly Filled Telephone cable 5 Pair of Size 0.63 mm with poly -Al moisture Barrier as per IRS TC 41/97.	Km	0.9	70,933.87	63,840.48
21	21	Supply of Fuse Auto Changeover System (FACS) as per RDSO specification No RDSO/SPN/209/2012 Rev-1.0 or latest.	Module	32	24,692.48	7,90,159.32
22	22	Supply of powder coated Main Cable Termination rack complete with scaffolding, fixtures & accessories including 10 mm thick Hylam or any other suitable arrangement for mounting 8-way terminal / WAGO make terminal blocks, ladders, string rods, frame, base assembly, insulators, J bolt, nut/bolts & fasteners (Bakelite strips), Rack arrangement etc. as per extant practice on N F Rly for EI. Rack should be made of first class steel powder coated painting and rack manufacturer's certificate should be submitted. All runway for cables / wires shall be provied with PVC sleeve of proper size.	Set	4	56,515.39	2,26,061.58
		AMBASSA Station Alteration				
23	23	Supply of powder coated Relay Rack Assembly complete with scaffolding. Fixturess & accessories incldg MS Bars/ relay framos fr fixing of relay plug boards, string rods,fuse strips with bracket,11 way bus Bars with cover & mounting brackets,runway fr cable/wires,frame, base assembly etc. siemens' type & as pr extant practice on W.C.R and Rack arrangement as per as Technical specification of tender document made of first class steel powder coated painting .All Runway for cable/wires shall bo provided with PVC steeve of proper size.	Nos	1	43,464.50	43,464.50
24	24	Supply of Tag Blocks 200 way with cover as per IRS:S 77/2006(Rev.1), with Drg. No. SA-24751.	Nos	3	1,831.49	5,494.48
25	25	Supply of PVC insulated flexible wire 16/0.2 mm dia as per RDSO spec.Nos. IRS:S-76/89 with latest amendments of various colours	Meter	2000	6.90	13,808.87

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S.N.	Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Rate (Rs.)	Amount (Rs.)
26	26	Supply of flexible cable single core multistrend copper conductors, 1x10 sq.mm confirming to RDSO specification IRS:S: 76/89 with latest amendments.	Meter	100	173.16	17,315.88
27	27	Supply of flexible cable single core multistrend copper conductors, 1x25 sq.mm confirming to RDSO specification IRS:S: 76/89 with latest amendments.	Meter	100	392.66	39,265.74
28	28	Supply of flexible cable single core multistrend copper conductors, 1x16 sq.mm confirming to RDSO specification IRS:S: 76/89 with latest amendments.	Meter	100	256.08	25,608.04
29	29	Supply of flexible cable single core multistrend copper conductors, 1x6 sq.mm confirming to RDSO specification IRS:S: 76/89 with latest amendments.	Meter	200	110.01	22,002.61
30	30	Supply of QNA1 immunised relay (for outdoor) 24V DC, 8F/8B along with plug-in board retaining clip & connectors confirming to BRS :931A, IRS:S60 IRS:S34/68 IRS23/86	Nos	13	4,452.35	57,880.53
31	31	Supply of QNA1 immunised relay (for outdoor) 24V DC, 6F/6B along with plug-in board retaining clip & connectors confirming to BRS :931A, IRS:S60 IRS:S34/68 IRS23/87	Nos	13	4,452.35	57,880.53
32	32	Supply of Domino units with cover plates as per approval panel Diagram, each of size 54X34mm completely wired up similar to siemens make, each domino unit should have all the 15 contact terminals wired up.	Nos	15	2,460.92	36,913.79
33	33	Supply of Point Chain Group (Ref: IRS: S46 & firm's specification) of siemens make (Nos. A-RT-RG-A067) or functional equivalent without base plate	Nos	2	36,794.09	73,588.19
34	34	Supply of Base for Siemens Point chain group or its functional equivalent. The base plate shall either manufactured by OEM.	Nos	2	8,385.62	16,771.23
35	35	Supply and fixing of 20 pair CT Box and fixing on Hylam board on wall and termination of quad/ telecom cable at station/ SP/ SSP/ TSS/ LC gate/ Relay room/ office/ residences as per requirement and details given by engineer at site. The CT box after termination shall be sealed by pouring paraffin wax.	Nos	8	5,373.92	42,991.36
36	36	Supply of Switch board cable 5 pair for indoor wiring.	Km	0.7	19,340.48	13,538.33
37	37	Supply of Thermoshrink jointing kit for Jely filled Six quad cable conforming to RDSO Spec. IRS:TC-77.2006(Rev 1) with latest amendment.	Nos	6	6,336.20	38,017.17
38	38	Supply and fixing of VF Tapping Transformers (1120:470) as per the Spec. IRS TC 22 76 or latest RDSO specification.	Nos	6	935.14	5,610.84



S.N.	Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Rate (Rs.)	Amount (Rs.)
33	39	Supply of Apparatus Case full Case as per Drg Nos WS-8842/A with latest alteration along with miniature 'E' type locks with keys (1 key per 5 location boxes and handle) of ward Nos. 41 (E type lock & key as per spec. Nos IRS S 30 & RDSO Drg.Nos. SA 3376/M & 3377/M respectively with latest Amendment) on both the doors, duly painted with red oxide. This item also includes i) Supply of Hylam sheet (Bakelite industrial laminated paper based sheet), resin bonded 10 mm thick, grade P3 in standard size of 1.22 x 1.22 mtrs. as per specn. No. IS 2036 of 1974. -as per requirement for termination of cables and for shelf for fixing equipments.	Nos	10	23,255.33	2,32,553.28
43	40	Supply of Apparatus Case Half Case as per Drg Nos WS-8842/A with latest alteration along with miniature 'E' type locks with keys (1 key per 5 location boxes and handle) of ward Nos. 41 (E type lock & key as per spec. Nos IRS S 30 & RDSO Drg.Nos. SA 3376/M & 3377/M respectively with latest Amendment) on both the doors, duly painted with red oxide. This item also includes i) Supply of Hylam sheet (Bakelite industrial laminated paper based sheet), resin bonded 10 mm thick, grade P3 in standard size of 1.22 x 1.22 mtrs. as per specn. No. IS 2036 of 1974. -as per requirement for termination of cables and for shelf for fixing equipments.	Nos	10	18,760.19	1,87,601.89
		Schedule 'B' Execution			-	-
-		Modification / reconfiguration to dataloggers at stations and Control Centre to suite the SIPs.	Stn	4	6,309.06	25,236.24
2		Installation of Relay Rack Assembly incldng IDF pillars complete with wall supports, scaffolding, ladders, runway for cables, Relay/Relay group base plates, fixing of Tag blocks etc. The work shall be done as pr appvd plan, extant practice on N. F.Rly & the instructions of Rly. engineer at site.	Nos	1	1,845.69	1,845.69
3		All Panel/ Relay room work involving alteration, wiring, and testing of control cum indication panel, SPT, Group phone, test board etc. in connection with relay interlocking/IBS/ at existing station. This includes laying and termination of cables, if any from panel room to relay room in GI/HDPE pipe. Ambassa Sttaion	Stn	1	3,78,603.00	3,78,603.00
		Patching of new CT Rack with existing CT Rack.This includes patching of cable cores from existing CT Rack from Relay Room to CT Rack of new Relay Room which includes Termination of cable cores on terminals at cable termination rack. This includes all associated works of pulling out the cable from under ground, peeling off insulation, dressing of cable core supported on sting rod with contractors own material. The work shall be done as per instructions of engineer at site.	Core	800	13.18	10,546.80



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S.N.	Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Rate (Rs.)	Amount (Rs.)
5		Design & supply of Detailed Signaling Circuits including Panel diagram, Route section Plan, Selection Table, Fuse & Negative Tag Analysis, Contact analysis, Relay Rack Arrangement & wire count sheets etc. in A3 size. Completion circuit shall be plotted in AutoCAD. The contractor shall initially supply 2 sets of circuits duly signed by the circuit designer having substantial experience on design side for making such circuits, complete for approval of Rlys. Rlys will return one set of circuit to the contractor duly approved with alterations/ corrections, if any. The contractor shall incorporate Rly's alterations/corrections in the original tracings & CD without any deviation & submit 02 copies of the modified circuits. Original tracings so modified & final CD complete in all respects along with 4 sets of final appvd circuits out of which 01 set shall be supplied in transparent polythene cover & only 02 sheets of circuits shall be placed in one polythene cvr. All other documents in thick plastic folder shall be submitted to the Rlys in case there are no further altrns suggested by Rlys. Contractor shall ensure that each sheet has a block fr signature of Rly officials as well block fr signature of firm. Name of wrk shld also be written on each page.	Set	1	1,07,221.38	1,07,221.38
6		Bonding of track circuits on track, track connections, installation, jumpering, charging of batteries, testing & commissioning of DC track circuits on track. including supply of Fibre glass track lead Junction boxes, etc.	Nos	18	15,969.38	2,87,448.88
a		Supply of Channel bond pin (single groove, tinned or zinc coated 7mm dia), GI Bond wire soft (7 strand steel wire 8 SWG), PVC Jacketed wire rope (galvanized wire rope 6mm dia (6x19 standard wire with steel core sheathed with PVC 2 mm wall thickness, overall thickness 10 mm)				
b		Supply of Fibre glass track lead Junction boxes along with TLJB angle for termination of signaling cables - as per requirement				
c		Initial Charging of 3 nos. of batteries of 80AH capacity supplied along with supply schedule for track circuits.				
d		Installation, wiring, testing & commissioning of DC track circuits on track as per instruction of Site Engineer. This include all preparatory work of Glued joint bypass bonding, temporary negative bonding during NI and other physical adjustments before commissioning to enable existing Track circuit to continue and post commissioning bonding across old glued joint.				
7		Installation, Wiring, Testing & Commissioning of Point Machines including wiring of point JB, fixing of GI Pipe, Ground Connections and other work related to functioning of Point Machine. The work shall be done as per practice of NFR & the instruction of Engineer. All materials related to wiring will be supplied by the contractor.	Nos	11	19,410.40	2,13,514.43
8		Fixing of Key Lock Relay AC immunized with different ward combinations (Two extra set of ward plate for Point Machine to be supplied with each relay) of RDSO approved Make working on 60/24V DC or functional equivalent.	Nos	5	1,666.76	8,333.80



S.N.	Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Rate (Rs.)	Amount (Rs.)
9		Supply & Fixing of Pre-wired Crank Handle cum key lock relay box alongwith LEDs, push buttons, 8-way terminal strips, string rod, etc. suitable for 6 crank handle relay per box. It includes supply of any minor bracket, nuts, bolts, teakwood, sunmica, lock, drilling holes as directed by engineer at site.	Set	2	12,971.93	25,943.85
		Note: The above item includes supply and installation of petty material for fixing, clamping & mounting arrangement, fabrication and fixing of Hylam sheet in location box, by providing all fixtures as per railway drawing including fixing of PVC coated string rods at the back side for cable support with contractor's own material. The work shall be done as per as per instructions of Engineer Incharge.				
10		Termination & Meggaring of cable cores on terminals rack. This includes all associated work of pulling out the cable from under ground, peeling of insulation dressing f cable cores supported on string rod with contractors own materials. The work shall be done as per Instructions of engineer at site.	Nos.	2200	15.80	34,767.25
11		Excavation of trenches at the depth of 1.0 Mtr. deep and 300 mm wide at the bottom of the trench including clearing of roots, bushes, or other obstruction etc. for all types of soils including Murrum, soft rock, hard soil mixed with boulders etc. as per cable route plan. This also includes complete back filling the trench after laying required quantity of cable, protection pipes/bricks, route marker etc and ramming and consolidation of soil as well as disposal of extra soil .	KM	6	80,678.73	4,84,072.36
12		Excavation of cable trench of 1 m. depth & 300 mm. wide across the track crossing, road crossing, level crossing, platform & refilling after laying DWC pipe with collars .This does not include provision of Tiles etc in case of Platform.. The work shall be done as per existant practice of N F Railway & Instruction of Engineer.	Mtr	250	82.88	20,719.44
12		Horizontal direction drilling/boring without damage of surface of road /Track formation. It includes supply, transportation and insertion of self lubricated HDPE pipe (Inner dia 103.5mm and outer dia 120mm). The depth of horizontal boring should be min. 1m from rail flange/road level.	Mtr	250	3,014.15	7,53,538.60
14		Preparation of cable Duct 150mm wideX300mm deep for laying of cable in rocky area and refilling the duct(after cable laying) with concrete mixture of proportion 1:3:6 and grouting the ends at either side of the rocky portion using concrete mixture with contractor's own materials and excavated earth to its original condition.	Mtr	500	761.89	3,80,944.03
15		Laying & Installation of 100 mm B Class perforated GI pipe for Cable Protection at culverts/Bridges including cutting, suitably concreting at both ends, GI clamps, flats etc. All material to be supplied by Contractor.The work shall be done as per instruction of Engineer.	Mtr	200	59.49	11,897.98



S.N.	Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Rate (Rs.)	Amount (Rs.)
16		Laying of Signalling/Power/Telecom Cables of various cores in trench and meggering of main and tail cables. This includes loading/unloading & transportation of cables to site. Whenever several cables are to be laid separation of cables should be as advised by site engineer. This also includes unwinding of cable drum using proper jigs without causing damage to cable.	KM	32	6,653.47	2,12,911.18
17		Transportation & Laying of DWC/RCC pipes along with collars in trenches at required locations as per the instruction of engineer at site.	Mtr	250	48.53	12,132.55
18		Placing of half round (Split DWC) pipe over the laid cable in open trenches in yards between Home signal to Home signal and tying pipe with cable with loose armouring	Mtr	2200	4.32	9,494.38
19		Shifting/ lifting of existing location boxes/ signals/Track lead boxes, junction boxes etc along with foundation to adjacent place to facilitate earth work/clearing infringement etc at stations including IBH, LC gates etc.	Nos	15	30,305.40	4,54,581.03
20		a) Excavation of pit, fixing of foundation scaffolding, casting & plastering of concrete foundation, removal of scaffolding, water curing and earth filling for Independent Shunt Signal as per WCR practice. This includes : Supply of cement, sand, stone chip & mixing in the ratio 1:3:6. b) Erection & wiring of shunt signal. This includes : Erection of surface base, shunt signal post, shunt signal unit. Supply & fixing of Heat enamelled signal number plate, Fixing of lenses, signal/LED lamp, supply and fixing of antitheft protection etc., where ever required. Termination of the tail cable, supply of wire & wiring of signal unit. Focusing and testing of shunt signal.	Nos	11	5,589.96	61,489.58
21		Excavation, casting, concreting, curing and plastering (above ground level) of Apparatus case foundation as per practice of WCR & erection with contractors own Metal Sheet frame, cement, anchor bolts with nuts & washers and other materials. The items also include additional earth work if required as per instruction of Rly. Engineer at site for :-				
a		Full Location Box as per Drg No	Nos.	10	12,020.09	1,20,200.89
b		Half Location Box as per Drg No	Nos.	10	6,982.23	69,822.34
		Subtotal Sch. E (Rs.)				1,74,96,661.02



S.N.	Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Rate (Rs.)	Amount (Rs.)
		Schedule "F" (Furniture for Tripshed)				
1		Office Table	Each	3	30,702.79	92,108.36
2		Revolving Chair	Each	1	8,395.90	8,395.90
3		Office Chair	Each	6	6,944.39	41,666.32
4		Steel Almirah with eight compartment/08 doors	Each	2	54,914.42	1,09,828.84
5		Steel Almirah with Shelving Cabinate -04 Shelevs	Each	4	22,114.76	88,459.03
6		Metal Shelving Rack - 05 Shelves	Each	2	10,695.00	21,390.00
7		File Cabinate (Steel Block Case) - 04 Doors	Each	1	25,438.69	25,438.69
8		Wooden Bench - Three Seater	Each	2	13,367.68	26,735.36
		Subtotal Sch. F (Rs.)				4,14,022.49



Signature Not Verified

Digitally signed by DEEPAK KUMAR
KOSE
Date: 2026.05.11 17:14:35 IST
Location: eProcurement System for
Central PSUs