

**HUBLI DIVISION-GATI SHAKTI/SOUTH WESTERN RLY
TENDER DOCUMENT**

Tender No: H-GS-UBL-03-2026-27

Closing Date/Time: 10/07/2026 11:00

CPM/Gati Shakti/UBL acting for and on behalf of The President of India invites E-Tenders against Tender No **H-GS-UBL-03-2026-27** Closing Date/Time 10/07/2026 11:00 Hrs. Bidders will be able to submit their original/revised bids upto closing date and time only. Manual offers are not allowed against this tender, and any such manual offer received shall be ignored.

1. NIT HEADER

Name of Work	Hubballi Division: BAY - RDG section: Provision of Two additional loop lines with R&D facilities along with associated Civil, Track, Signal, TRD and Electrical (Genl) works at Obulapuram station (Phase II) (Composite tender).		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Two Packet System
Tender Closing Date Time	10/07/2026 11:00	Date Time Of Uploading Tender	16/06/2026 18:58
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	290846770.29	Tendering Section	GATISHAKTI
Bidding Style	Single Rate for Each Schedule	Bidding Unit	
Earnest Money (Rs.)	5816900.00	Validity of Offer (Days)	90
Tender Doc. Cost (Rs.)	0.00	Period of Completion	18 Months
Contract Type	Works - General	Contract Category	Expenditure
Bidding Start Date	26/06/2026		
Are JV allowed to bid	Yes	Number of JV Member Allowed	5
Are Consortium allowed to bid	No	Number of Consortium Member Allowed	0
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Capital (Works)

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () A-DSR Items Civil							68434025.77	Above/ Below/Par
1	Please see Item Breakup for details.				97762893.95	(-) 30.00	68434025.77	
	Description:- DSR Items Civil							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () B-Earth Work							282671.71	Above/ Below/Par
2	Please see Item Breakup for details.				282671.71	AT Par	282671.71	
	Description:- Earth Work							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () C-Supply of Cement							7326695.21	Above/ Below/Par
3	Please see Item Breakup for details.				7326695.21	AT Par	7326695.21	
	Description:- Supply of Cement							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () D-Concrete and other Bridge Items							19755958.48	Above/ Below/Par
4	Please see Item Breakup for details.				19755958.48	AT Par	19755958.48	

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		Description:- Concrete and other Bridge Items						
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () E-Supply of Reinforcement steel							26803744.80	Above/ Below/P ar
5	Please see Item Breakup for details.				38291064.00	(-) 30.00	26803744.80	
	Description:- Supply of Reinforcement steel							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () F-COE and blanketing Items							17520854.00	Above/ Below/P ar
6	Please see Item Breakup for details.				17520854.00	AT Par	17520854.00	
	Description:- COE and blanketing Items							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () G-Superstructural steel							3467689.25	Above/ Below/P ar
7	Please see Item Breakup for details.				3467689.25	AT Par	3467689.25	
	Description:- Superstructural steel							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () H-Collection and Supply of Ballast							6391554.40	Above/ Below/P ar
8	Please see Item Breakup for details.				6391554.40	AT Par	6391554.40	
	Description:- Collection and Supply of Ballast							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () L-USSOR Track Items							10229115.98	Above/ Below/P ar
10	Please see Item Breakup for details.				10229115.98	AT Par	10229115.98	
	Description:- USSOR Track Items							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () M-NS Items Civil							4449906.00	Above/ Below/P ar
11	Please see Item Breakup for details.				4449906.00	AT Par	4449906.00	
	Description:- NS Items Civil							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () N-General Electrical Items							4131375.00	Above/ Below/P ar
12	Please see Item Breakup for details.				4131375.00	AT Par	4131375.00	
	Description:- General Electrical Items							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () A1-Horticulture							72611.11	Above/ Below/P ar

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13	Please see Item Breakup for details.				91912.80	(-) 21.00	72611.11	
	Description:- Horticulture							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () I1-Survey works NS							26664.00	Above/ Below/P ar
9	Please see Item Breakup for details.				26664.00	AT Par	26664.00	
	Description:- Survey works NS							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () I2-Survey works SOR							19327.98	Above/ Below/P ar
10	Please see Item Breakup for details.				19327.98	AT Par	19327.98	
	Description:- Survey works SOR							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () SA-S&T SOR Items							94809133.50	Above/ Below/P ar
14	Please see Item Breakup for details.				94809133.50	AT Par	94809133.50	
	Description:- S&T SOR Items							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () SB-S&T NS Items							997362.00	Above/ Below/P ar
15	Please see Item Breakup for details.				997362.00	AT Par	997362.00	
	Description:- S&T NS Items							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () TA-TRD SOR Items							25392929.10	Above/ Below/P ar
16	Please see Item Breakup for details.				24402571.40	AT Par	24402571.40	
	Description:- TRD SOR Item							
17	Please see Item Breakup for details.				990357.70	AT Par	990357.70	
	Description:- TRD SOR POWER BLOCK							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () TB-TRD Non SOR Items							735152.00	Above/ Below/P ar
18	Please see Item Breakup for details.				735152.00	AT Par	735152.00	
	Description:- TRD Non SOR Items							

3. ITEM BREAKUP

Schedule	Schedule A-DSR Items Civil					
Item- 1	DSR Items Civil					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	1.0	CARRIAGE OF MATERIALS				
	1.1	By Mechanical Transport including loading, unloading and stacking				
	1.1.2	Earth				

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1	1.1.2.1	1km	cum	1030	217.55	224076.5
2	1.1.18	Disposal of moorum/building rubbish/ malba/ similar unserviceable, dismantled or waste material by mechanical transport including loading, transporting, unloading to approved municipal dumping ground for lead upto 10 km for all lifts, complete as per directions of Engineer-in-charge.	cum	10	494.1	4941
	1.2	By Manual Labour including loading, unloading and stacking for lead less than 0.50 KM				
	1.2.2	Earth				
3	1.2.2.1	Cost of carriage including loading, unloading & stacking for first 50 metres	cum	810	283.98	230023.8
	2.0	EARTH WORK				
	2.15	General				
	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.				
4	2.6.1	All kinds of soil	cum	1625	177.5	288437.5
	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, for all lift, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
5	2.8.1	All kinds of soil.	cum	995	260.3	258998.5
	2.9	Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.				
6	2.9.1	Ordinary rock	cum	162	632.95	102537.9
7	2.9.2	Hard rock (requiring blasting)	cum	15	1049.8	15747
8	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 and for all lift.	cum	620	196	121520

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9	2.25A	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.	cum	590	700.5	413295
10	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	38	2123.75	80702.5
11	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	30970	17.6	545072
12	2.32	Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared.	Sqm	4220	8.95	37769
	4.0	CONCRETE WORK				
	4.1S	CEMENT CONCRETE (CAST IN SITU)				
	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
13	4.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	7	7878.5	55149.5
14	4.1.4	1:2:4 (1 Cement : 2 coarse sand (zone-III) derived from natural sources: 4 graded stone aggregate 40 mm nominal size derived from natural sources)	cum	85	7780.3	661325.5
15	4.1.5	1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	420.8	7294.7	3069609.76
16	4.1.6	1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 40 mm nominal size derived from natural sources)	cum	30	7178.75	215362.5
	4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing:				
17	4.2.2	1:1 1/2:3 (1 cement : 1 1/2 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	1100	10357.55	11393305

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	4.5S	CEMENT CONCRETE PRECAST				
	4.5	Providing and fixing up to floor five level precast cement concrete string or lacing courses, copings, bed plates, anchor blocks, plain window sills, shelves, louvers, steps, stair cases, etc., including hoisting and setting in position with cement mortar 1:3 (1 Cement : 3 coarse sand), cost of required Centering complete.				
18	4.5.1	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20mm nominal size derived from natural sources)	cum	15	10105.1	151576.5
	4.10S	DAMP-PROOF COURSE				
19	4.10	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 12.5mm nominal size derived from natural sources)	Sqm	18	410.85	7395.3
20	4.12	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	per bag of 50 kg cement used	3	18.15	54.45
	4.14S	MISCELLANEOUS				
	4.20	Providing and laying in position ready mixed or site batched design mix cement concrete for plain 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 and finishing as per direction of the engineer-in-charge; for the following grades of concrete.				
	4.20.1	All works upto plinth level :				
21	4.20.1.4	Concrete of M25 grade with minimum cement content of 300 kg /cum	cum	400	9439.05	3775620
	5.0	REINFORCEMENT CEMENT CONCRETE				
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
22	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	5881	392.15	2306234.15
23	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	127	927.25	117760.75
24	5.9.5	Lintels, beams, plinth beams, girders, bressummers and cantilevers	Sqm	99	736.4	72903.6

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25	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	148	961.3	142272.4
26	5.9.19	Weather shade, Chajjas, corbels etc., including edges	Sqm	3.3	951.1	3138.63
	5.33S	DESIGN MIX CONCRETE				
	5.33	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate /retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge, for the following grades of concrete.:				
	5.33.1	All works upto plinth level				
27	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	24	9504.75	228114
28	5.33.1.2	Concrete of M30 grade with minimum cement content of 350 kg /cum	cum	30	9655.7	289671
	5.33.2	All works above plinth level upto floor V level				
29	5.33.2.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	32	9860.4	315532.8
	6.0	MASONRY WORK				
	6.1S	General				
	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
30	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	39.1	7132.25	278870.98
	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 :				
31	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	185	9105.95	1684600.75
	6.26S	EXPOSED BRICK WALL				

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32	6.47	Providing and laying Autoclaved Aerated Concrete (AAC) blocks masonry with 150 mm to 300 mm thick with Grade -1 AAC blocks of density 551 to 650 kg/cum conforming to IS: 2185 (Part 3) in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for separately).	cum	88	8333.65	733361.2
	7.0	STONE WORK				
	7.1S	RANDOM RUBBLE MASONRY				
	7.1	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with :				
33	7.1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	121.37	7311.25	887366.41
	8.0	CLADDING WORK				
	8.1S	General				
	8.2	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 locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints 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				
	8.2.2	Granite stone slab colour black, Cherry/Ruby red				
34	8.2.2.2	Area of slab over 0.50 sqm	Sqm	67	5136.3	344132.1
	8.20S	STONE WORK DRY CLADDING				
	8.32	Designing, fabricating, testing, installing and fixing in position Curtain Wall with Aluminium Composite Panel Cladding, with open grooves for linear as well as curvilinear portions of the building, for all heights and all levels etc. including:(a) Structural analysis & design and preparation of shop drawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it watertight including checking of all the structural and functional design. (b) Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metallic colour of approved shades made out of 4 mm thick aluminium	Sqm	80	5015.05	401204

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35		composite panel material consisting of 3 mm thick FR grade mineral core sandwiched between two Aluminium sheets (each 0.5 mm thick). The aluminium composite panel cladding sheet shall be coil coated, with Kynar 500 based PVDF /Lumiflon based fluoropolymer resin coating of approved colour and shade on face # 1 and polymer (Service) coating on face # 2 as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicone sealant, backer rods etc.(c) The fastening brackets of Aluminium alloy 6005 T5 / MS with Hot Dip Galvanised with serrations and serrated washers to arrest the wind load movement, fasteners, SS 316 Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all complete required to perform as per specification and drawing The item includes cost of all material & labour component, the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working curtain wall with aluminium composite panel cladding, cleaning and protection of the curtain wall with aluminium composite panel cladding till the handing over of the building for occupation. Base frame work for ACP cladding is payable under the relevant aluminium items. The Contractor shall provide curtain wall with aluminium composite panel cladding, having all the performance characteristics all complete , as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer-in-Charge. However, for the purpose of payment, only the actual area on the external face of the curtain wall with Aluminium Composite Panel Cladding (including width of groove) shall be measured in sqm.				
	9.0	up to two decimal places. WOOD AND F.V.C. WORK				
	9.1S	FRAMES AND TRUSSES				
	9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).				
36	9.1.1	Second class teak wood	cum	.8	142949.7	114359.76

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	9.7	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick :				
	9.7.7	Float glass panes				
37	9.7.7.2	5.0 mm thick glass panes (weight not less than 12.50 kg/sqm).	Sqm	131	2600.45	340658.95
38	9.7.8	Fly proof stainless steel grade 304 wire gauge with 0.5 mm dia. wire and 1.4 mm wide aperture with matching wood beading	Sqm	24	1800.45	43210.8
	9.20	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
39	9.20.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	38	3473.85	132006.3
	9.40S	MISCELLANEOUS-WOOD WORK				
	9.47	Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated brackets :				
40	9.47.2	25 mm dia (heavy type)	Metre	45	186.4	8388
	9.48	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.				
41	9.48.1	Fixed to steel windows by welding	Kg	1400	219.1	306740
42	9.48.2	Fixed to openings /wooden frames with rawl plugs screws etc.	Kg	1665	238.35	396852.75
43	9.53	Providing 40x5 mm flat iron hold fast 400 mm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 300x100x150 mm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	Each	250	228.85	57212.5
	9.72S	BRASS FITTINGS				
	9.74	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete :				
44	9.74.2	200x10 mm	Each	10	358.4	3584
45	9.74.3	150x10 mm	Each	24	287.25	6894
	9.75	Providing and fixing bright finished brass door latch with necessary screws etc. complete :				
46	9.75.2	250x16x5 mm	Each	14	308	4312
	9.81	Providing and fixing bright finished brass handles with screws etc. complete:				
47	9.81.1	125 mm	Each	14	256.65	3593.1

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48	9.82	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete.	Each	12	121.65	1459.8
49	9.83	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.	Each	8	1124.85	8998.8
	9.105S	GYPSUM BOARD PARTITIONS				
	9.147	Providing and fixing factory made uPVC glazed/wire mesh windows/ doors comprising of lead free uPVC multi-chambered frame, sash and mullion/coupler (where ever required) extruded profiles having minimum wall thickness of 1.70 mm for Series R1 and R2 profiles and 2.10 mm for Series R3 and R4 profiles conforming to EN: 12608 in any shape, colour and design duly reinforced with galvanized mild steel section made of required shape & size as per CPWD Specification, uPVC extruded glazing beads, interlocks and Inline sash adaptor (where ever required) of appropriate dimension, EPDM gasket, hardware, SS 304 grade fasteners of minimum 8 mm dia with countersunk head, comprising of matching polyamide PA6 grade sleeve for fixing frame to finished wall as per IS 1367 : Part 1 to 14, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame, sash & mullion (if required) shall be mitred cut and fusion welded/mechanically jointed duly sealed at all corners, including drilling of holes for fixing hardware and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of approved size and quality, all complete as per approved drawing conforming to CPWD specification & direction of Engineer-in-Charge. Section of steel reinforcement and cross sections of uPVC profiles to be as per design approved by Engineer-in-Charge. Wire mesh / Glazing of plain/ toughened/ laminated/ double glass unit with / without high performance coatings as per design requirements and conforming to IS: 3548 & IS: 16231 shall be paid separately.				
	9.147.A4	Three track three panels sliding window with two glazed & one wire mesh panels with Aluminium channel for roller track, wool pile, nylon rollers with SS 304 body.				

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50	9.147.A4.2	Using R3 series with frame (98 mm & above) x (40 mm & above) & both glazed and fly screen sash (30 mm & above) x (55 mm & above) with zinc alloy (zamak) powder coated handle on every glazed panel along with multi-point locking system. (Height upto 1.8m)	Sqm	105	10874.2	1141791
	10.0	STEEL WORK				
	10.1S	General				
51	10.1	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	30180	117.35	3541623
52	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	22350	133.7	2988195
	10.16	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.				
53	10.16.1	Hot finished welded type tubes	Kg	15100	194.4	2935440
54	10.16.2	Hot finished seamless type tubes	Kg	1850	206.35	381747.5
55	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, including 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	50	772.4	38620
	11.0	FLOORING				
	11.1S	General				
56	11.2	Dry brick on edge flooring in required pattern with bricks of class designation 7.5 on a bed of 12 mm mud mortar, including filling joints with Jamuna sand, with common burnt clay non modular bricks.	Sqm	500	792.05	396025
	11.16S	TILE FLOORING				

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	11.20	Chequered precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).				
57	11.20.3	Dark shade pigment using ordinary cement	Sqm	980	1119.5	1097110
	11.41S	VITRIFIED FLOOR TILES				
	11.41A	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm 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. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.				
	11.41A.1	Double charge vitrified tile polished finish of size				
58	11.41A.1.2	Size of Tile 800 x 800 mm	Sqm	424	1534.85	650776.4
	11.55	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge :				
59	11.55.1	Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	Sqm	17	3186.7	54173.9

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	11.56	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.				
60	11.56.1	Polished Granite stone slab colour of Black, Cherry/Ruby Red or equivalent	Sqm	50	4481.3	224065
	12.0	ROOFING				
	12.1S	SHEET ROOFING				
	12.4	Providing ridges or hips of width 60 cm overall width plain G.S. sheet fixed with polymer coated J or L hooks, bolts and nuts 8mm dia G.I. limpet and bitumen washers complete.				
61	12.4.2	0.63 mm thick with zinc coating not less than 275 gm/m2	Metre	60	980.5	58830
	12.7	Providing and fixing 15 cm wide, 45 cm overall semi-circular plain G.S. sheet gutter with iron brackets 40x3mm size, bolts, nuts and washers etc., including making necessary connections with rain water pipes complete.				
62	12.7.2	0.63 mm thick with zinc coating not less than 275 gm/m2	Metre	60	944.05	56643
	12.37S	RAIN WATER SPOUT AND PIPE				
	12.37	Providing and fixing 100 mm diameter and 60 cm long rain water spout in cement mortar 1:4 (1 cement : 4 fine sand).				
63	12.37.1	Stone ware spout	Each	5	164.2	821
	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.				
64	12.41.2	110 mm diameter	Metre	93.5	377.4	35286.9
	12.42	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.				
	12.42.5	Bend 87.5 degree				
65	12.42.5.2	110 mm bend	Each	24	150.35	3608.4

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66	12.46	Providing and fixing to the inlet mouth of rain water pipe PTMT (an Engineering Thermoplastic) grating square (Slit) 150 mm square with a height of 8 mm and weighing not less than 100 gms.	Each	5	84.55	422.75
67	12.50	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) of total coated thickness 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05 mm) 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	870	738.65	642625.5
	12.51	Providing and fixing precoated galvanised steel sheet roofing accessories of total coated thickness 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05 mm) 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 using self drilling/ self tapping screws complete :				
68	12.51.1	Ridges plain (500 - 600mm)	Metre	120	532.35	63882
69	12.51.6	Gutter (600 mm over all girth)	Metre	60	1313.7	78822
	13.0	FINISHING				
	13.1S	CEMENT PLASTER (IN FINE SAND)				
	13.1	12 mm cement plaster of mix :				
70	13.1.1	1:4 (1 cement: 4 fine sand)	Sqm	1603	347.05	556321.15
	13.3	20 mm cement plaster of mix :				
71	13.3.1	1:4 (1 cement: 4 fine sand)	Sqm	680	471.35	320518
	13.16S	6 mm CEMENT PLASTER				
	13.16	6 mm cement plaster of mix :				
72	13.16.1	1:3 (1 cement : 3 fine sand)	Sqm	600	300.45	180270
73	13.17	6 mm cement plaster 1:3 (1 cement : 3 fine sand) finished with a floating coat of neat cement and thick coat of Lime wash on top of walls when dry for bearing of R.C.C. slabs and beams.	Sqm	64	396.65	25385.6
	13.20S	PEBBLE DASH PLASTER				

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74	13.26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	2950	262.7	774965
	13.44S	EXTERIOR FINISHING				
	13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
75	13.48.1	Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm	Sqm	2950	193.7	571415
	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
76	13.61.1	Two or more coats on new work	Sqm	4333	155.9	675514.7
	13.63	Painting with aluminium paint of approved brand and manufacture to give an even shade .				
77	13.63.1	Two or more coats on new work	Sqm	4300	146.8	631240
	13.82	Wall painting with acrylic emulsion paint, 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.				
78	13.82.2	Two coats	Sqm	3236	137.45	444788.2
	15.0	DISMANTLING AND DEMOLISHING				
	15.1S	General				
79	15.1	Demolishing lime concrete manually/ by mechanical means and disposal of material within 50 metres lead as per direction of Engineer- in-charge.	cum	100	851.5	85150
	15.2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.				
80	15.2.1	Nominal concrete 1:3:6 or richer mix (including equivalent design mix)	cum	100	2434.25	243425
81	15.2.2	Nominal concrete 1:4:8 or leaner mix (including equivalent design mix)	cum	110	1503.6	165396
82	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	300	3551.25	1065375
	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.				
83	15.7.3	In lime mortar	cum	250	851.5	212875
84	15.7.4	In cement mortar	cum	250	2060.2	515050

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	15.9	Demolishing stone rubble masonry 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 :				
85	15.9.1	In lime mortar	cum	10	1158.1	11581
	15.12	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :				
86	15.12.1	Of area 3 sq. metres and below	Each	10	367.2	3672
87	15.18	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 metres lead.	Kg	500	5.65	2825
88	15.59	Dismantling of flexible pavement (bituminous courses) by mechanical means and disposal of dismantled material up to a lead of 1kilometre, as per direction of Engineer-in-charge.	cum	6	420.8	2524.8
	16.0	ROAD WORK				
	16.1S	ROADS				
89	16.1	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 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 earth with lead upto 50 metres.	Sqm	4700	218.9	1028830
90	16.4	Laying, spreading and compacting stone aggregate of specified sizes to WBM specifications in uniform thickness, hand picking, rolling with 3 wheeled road/vibratory roller 8-10 tonne capacity in stages to proper grade and camber, applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate, watering and compacting to the required density .	cum	640	1046.95	670048
	16.42S	CONCRETE PAVEMENTS				
91	16.45	Providing and fixing pre-moulded joint filler in expansion joints of RCC roads / CC pavements after making the joints dust free with high pressure air jet cleaners, all complete as per direction of the Engineer-in-Charge. (Pre-moulded joint fillers shall be made of bitumen hot sealing compound impregnated fibre board having impregnation more than 35%, conforming to IS:1838 for fibre board and IS: 1834 for hot sealing bitumen compound grade A.)	per cm depth per cm width per metre length	2250	5.3	11925
	16.47S	PAINTING AREA/RUNWAY MARKING				

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	16.48	Painting road surface marking with adequate nos of coats to give uniform finish with ready mixed road marking paint conforming to IS : 164, on bituminous surface in white/yellow shade, including cleaning the surface of all dirt, scales, oil, grease and foreign material etc. complete.				
92	16.48.1	New work (Two or more coats)	Sqm	120	288.9	34668
	16.49S	MISCELLANEOUS				
93	16.68	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	Sqm	828	972	804816
94	16.69	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured to calculate volume for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	cum	96	10117.6	971289.6
95	16.75	Providing and laying C.C. pavement of mix M-25 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator , vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-in-charge. (The panel shuttering work shall be paid for separately).	cum	3430	9823.8	33695634

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96	16.80	Construction of dry lean cement concrete sub base over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in- charge.	cum	1600	4148.65	6637840
97	16.90	Providing and laying tactile tile (for vision impaired persons as per standards) of size 300x300x9.8mm having with water absorption less than 0.5% and conforming to IS:15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (1 cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-Charge.	Sqm	170	2017.6	342992
	17.0	SANITARY INSTALLATIONS				
	17.1S	General				
	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231,with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:				
98	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	5	6767.4	33837
	17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 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 :				
99	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	Each	5	6515.55	32577.75

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	17.7	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:				
100	17.7.3	White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps	Each	5	2301.75	11508.75
	17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
	17.28.1	Semi rigid pipe				
101	17.28.1.1	32 mm dia	Each	5	103.9	519.5
	17.32	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :				
102	17.32.2	Rectangular shape 453x357 mm	Each	5	1361.8	6809
	17.35	Providing and fixing soil, waste and vent pipes :				
	17.35.1	100 mm dia				
103	17.35.1.2	Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989	Metre	80	1180.75	94460
	17.60	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :				
	17.60.1	100 mm inlet and 100 mm outlet				
104	17.60.1.1	Sand cast iron S&S as per IS: 3989	Each	5	1996.5	9982.5
	17.65	Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with two coats of synthetic enamel paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work :				
105	17.65.1	100 mm diameter pipe	Metre	80	82.8	6624
	17.69	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour.				
106	17.69.2	Waste coupling 38 mm dia of 83 mm length and 77mm breadth, weighing not less than 60 gms	Each	10	122.4	1224
	17.70	Providing and fixing PTMT Bottle Trap for Wash basin and sink.				
107	17.70.1	Bottle trap 31mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms	Each	5	367.1	1835.5

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108	17.71	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	Each	5	168.35	841.75
	17.73	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.				
109	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	5	708.95	3544.75
110	17.74	Providing and fixing PTMT shelf 440 mm long, 124 mm width and 36 mm height of approved quality and colour, weighing not less than 300 gms.	Each	5	713.2	3566
	18.0	WATER SUPPLY				
	18.75	C.P.V.C. PIPES				
	18.7	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, and all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. (Internal work - Exposed on wall)				
111	18.7.2	20 mm nominal dia Pipes	Metre	100	335	33500
112	18.7.3	25 mm nominal dia Pipes	Metre	80	401.55	32124
	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings and 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.				
113	18.8.2	20 mm nominal dia Pipes	Metre	100	537.6	53760
114	18.8.3	25 mm nominal dia Pipes	Metre	80	627.25	50180
	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. External work				
115	18.9.8	80 mm nominal dia Pipes	Metre	80	2166.35	173308
	18.15S	BRASS FITTINGS				

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	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
116	18.17.1	25 mm nominal bore	Each	4	622.4	2489.6
117	18.17.4	50 mm nominal bore	Each	4	1026.65	4106.6
	18.18	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :				
118	18.18.1	15 mm nominal bore	Each	4	406.85	1627.4
	18.19	Providing and fixing gun metal non-return valve of approved quality (screwed end) :				
	18.19.4	50 mm nominal bore				
119	18.19.4.1	Horizontal	Each	4	1371.2	5484.8
120	18.19.4.2	Vertical	Each	4	1445.15	5780.6
	18.22	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet				
121	18.22.2	150 mm diameter	Each	5	222.35	1111.75
	18.23S	C.I./DUCTILE IRON PIPES & SPECIALS				
	18.27	Providing and laying S&S centrifugally cast (spun) iron pipes (Class LA) conforming to IS - 1536 :				
122	18.27.1	100 mm dia pipe	Metre	40	1423.1	56924
	18.31S	C.I. SLUICE VALVES/ FIRE HYDRANTS & FIXTURES				
123	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	Per Litre	2000	11	22000
	18.49S	C.P. BRASS FITTINGS				
	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				
124	18.49.1	15 mm nominal bore	Each	5	506.8	2534
	18.50	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.				
125	18.50.1	15 mm nominal bore	Each	5	820.7	4103.5
	18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931				
126	18.53.1	15mm nominal bore	Each	5	574.3	2871.5
127	18.53A	Providing and fixing C.P. Brass extension nipple (size 15mmx50mm) of approved make and quality as per direction of Engineer-in-charge.	Each	5	74.8	374
	18.59S	AIR VALVE & WATER METER (BULK TYPE)				
	18.76	Cutting holes up to 30x30 cm in walls including making good the same:				
128	18.76.1	With common burnt clay F.P.S. (non modular) bricks	Each	25	416.8	10420

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129	18.77	Cutting holes up to 15x15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including finishing complete so as to make it leak proof.	Each	5	452	2260
	19.0	DRAINAGE				
	19.15	STONE WARE PIPES AND FITTINGS				
	19.1	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :				
130	19.1.4	250 mm diameter	Metre	50	1505.6	75280
	19.3	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand :10 graded stone aggregate 40 mm nominal size) up to haunches of S.W. pipes including bed concrete as per standard design :				
131	19.3.4	250 mm diameter S.W. pipe	Metre	100	1016.9	101690
	19.4	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x 300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design:				
	19.4.2	150 x 100 mm size P type				
132	19.4.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	5	2734.2	13671
	19.6	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :				
133	19.6.4	300 mm dia. R.C.C. pipe	Metre	40	994.3	39772
134	19.6.13	1200 mm dia. R.C.C. pipe	Metre	20	7102.15	142043
	19.7	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size),foundation concrete 1:4:8 mix (1 cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :				

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	19.7.3	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (heavy duty) 560 mm internal diameter, total weight of cover and frame to be not less than 208 kg (weight of cover 108 kg and weight of frame 100 kg) :				
135	19.7.3.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	2	32857.85	65715.7
	19.8	Extra for depth for manholes :				
	19.8.2	Size 120x90 cm				
136	19.8.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Metre	1	10585.5	10585.5
	19.11	Constructing brick masonry circular manhole 1.22 m internal dia at bottom and 0.56 m dia at top in cement mortar 1:4 (1 cement :4 coarse sand) inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement foundation concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design :				
	19.11.1	1.68 m deep with SFRC Cover and frame (heavy duty HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg. fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for separately) :				
137	19.11.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	2	24702.75	49405.5
	19.12	Extra depth for circular type manhole 1.22 m internal dia (at bottom) beyond 1.68 m to 2.29 m :				
138	19.12.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Metre	2	9861.45	19722.9
	19.15	Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design :				
139	19.15.2	With 20 mm diameter round bar	Each	5	496.5	2482.5

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	19.21	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete :				
140	19.21.2	For pipes 250 to 300 mm diameter	Each	2	922.4	1844.8
	19.26	Raising manhole cover and frame slab to required level including dismantling existing slab and making good the damage as required (Raising depth of manhole to be paid separately) :				
141	19.26.3	Rectangular manhole 120x90 cm with circular cover 560 mm dia of grade HD - 20	Each	2	3881.5	7763
	22.0	WATER PROOFING				
	22.15	General				
142	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	96	769.6	73881.6

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	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 :				
143	22.7.1	With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	Sqm	96	1684.6	161721.6
	23.0	RAIN WATER HARVESTING & TUBEWELLS				
	23.1S	General				

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	23.1	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge, upto 90 metre depth below ground level.				
	23.1.1	All types of soil				
144	23.1.1.1	300 mm dia	Metre	90	707.75	63697.5
	23.3	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.				
145	23.3.3	200 mm nominal size dia	Metre	90	1113.35	100201.5
146	23.5	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	cum	2	1509.8	3019.6
147	23.6	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	cum	.7	1538.25	1076.78
148	23.7	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of Engineer-in-charge.	cum	.7	1538.25	1076.78
	23.11	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS: 8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumastic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer-in-charge.				
149	23.11.3	200 mm nominal size dia	Metre	20	2571.05	51421

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150	23.12	Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by V notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water samples & getting tested in approved laboratory, including disinfection of tubewell, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge.	Hour	48	1085.05	52082.4
	23.13	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of:				
151	23.13.3	200 mm dia	Each	1	321.15	321.15
	23.14	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts & nuts of required size complete.				
152	23.14.3	200 mm clamp	Each	1	2293.65	2293.65
	23.15	Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS:2800 (part I).				
153	23.15.3	200 mm dia	Each	1	357.6	357.6
	26.0	NEW TECHNOLOGIES AND MATERIALS				
	26.73S	PREFAB/PRECAST TECHNOLOGY				

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	26.86	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid door/window/Ceoseatory windows & other Frames/Chowkhat comprising of virgin PVC polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/ wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) fabricated with miter joints after applying PVC solvent cement and screwed with full body threaded star headed SS screws having minimum frame density of 750 kg/cum, screw withdrawal strength of 2200 N (Face) & 1100 N (Edge), minimum compressive strength of 58 N/mm ² , modulus of elasticity 900 N/mm ² and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixed in position with M.S hold fast/lugs/SS dash fasteners of required dia and length complete as per direction of Engineer-In-Charge. (M.S hold fast/lugs or SS dash fasteners shall be paid for separately).				
154	26.86.1	Frame size 45 x 70 mm	Metre	30	705.85	21175.5
155	26.86.7	Frame size 65 x 150 mm	Metre	40	1637.65	65506
					Total	97762893.95
Schedule	Schedule B-Earth Work					
Item- 2	Earth Work					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	011010	Preparation of foundation for Embankment by clearing, grubbing, stripping top soil (average 150 mm) and stacking beyond foundation area, thereafter ploughing and pulverizing 150 - 200 mm of top of soil with tractor trolley, mixing water to achieve OMC with water sprinkler or left for natural drying, as required, and compaction with vibratory roller of suitable capacity to achieve 98% MDD for laying first layer of soil for embankment construction.	100 Sqm	29000.00	515.86	149599.40
2	012020	Foundation preparation in cutting - ploughing and pulverizing 15 cm of top of soil with tractor trolley, mixing water to achieve OMC with water sprinkler or allowing for natural drying, as required, and compaction with vibratory roller of suitable capacity to achieve 98% MDD for laying blanketing layer.	100 Sqm	5000.00	252.54	12627.00
		Turfing / planting, including all lead & lift and watering as required until properly rooted with. Note: Initially payment of only 40% will be made. Balance 60% will be paid after 3 months of maintenance period, only if the turfing is properly rooted on entire turfed area.				

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3	013021	Turfing with sods, 10cm thick and 20cm square closely laid.	100 Sqm	90.00	5945.79	5351.21
		Provision of barricading with contractor's bamboos / ballies vertical post of 100mm dia. planted at every 2m interval, projecting at least 1.5m above ground level and driven firmly (minimum 0.5m) inside ground and including painting verticals & horizontals with red luminous paints / strips at alternative bay on barricade. Barricades shall be maintained through out the execution of the work and shall be removed in workman like manner on completion of the work only after instruction of Engineer in-Charge. Note: (1) 60% payment shall be made on provision of barricading at work-site and balance 40% payment after removal of barricades. (2) The released bamboos / ballies shall be the property of the Contractor.				
4	013051	With 3 horizontal bamboo / balli members of minimum 50mm dia. spaced equally	RM	50.00	142.53	7126.50
5	013080	Shoring with 'Z' section MS sheet piles side by side in all kinds of soil mechanically or manually as per approved drawing with contractor's own arrangement complete in all respects and removal of sheet piles after completion of the work as directed by engineer in-charge Note: Payment will be made as per actual driven length of pile.	Sqm	130.00	830.52	107967.60
					Total	282671.71
Schedule Schedule C-Supply of Cement						
Item- 3 Supply of Cement						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Supply and using Cement at Worksite				
1	025071	Ordinary Portland Cement 43 grade approved brands/makes	MT	1007.75	7270.35	7326695.21
					Total	7326695.21
Schedule Schedule D-Concrete and other Bridge Items						
Item- 4 Concrete and other Bridge Items						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Exploratory drilling of boreholes down to required depth, drilling of 150mm dia. boreholes in all type of soils except hard rock & large boulders (boulder core more than 30cm) including refilling, reinstating surface and disposing off surplus material including use of mechanical rigs with power operated winches as well as percussion/chiselling tool for advancing through occasional seams of hard strata to be employed, where necessary in Dry area.				
1	021011	0m to 10m	Metre	330.00	1065.00	351450.00

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		Exploratory drilling of Boreholes down to required depth, drilling of 150mm diameter boreholes in all type of soils except hard rock and large boulders (boulder core more than 30cm), including refilling, reinstating surface and disposing off surplus material including use of mechanical rigs with power operated winches as well as percussion / chiselling tool for advancing through occasional seams of hard strata to be employed where necessary in River bed area including standing/flowing water with all necessary arrangements except making of platform under water which shall be paid under relevant item of SOR.				
2	021021	0m to 10m	Metre	180.00	1278.00	230040.00
3	021022	10m to 20m	Metre	60.00	1342.22	80533.20
4	021030	Extra for 150mm dia. bore in hard Rock/large Boulder at all levels	Metre	66.00	1992.19	131484.54
		Drilling of NX size borehole (75mm dia.) in all types of hard rock and collection of rock core samples from boreholes and preserving in boxes.				
5	021051	0m to 10m	Metre	30.00	3055.85	91675.50
6	021110	Taking out 100mm dia. & 450mm long undisturbed samples of soil from bore holes, including provision of air tight containers for packing and, labeling incl. transporting the samples to laboratory. Piston sampler shall be used for extracting undisturbed samples where necessary. Samples shall be collected as per IS:2720.	Each	108.00	137.81	14883.48
7	021120	Taking out 100mm dia. & 450mm long disturbed samples of soil from bore holes, including provision of air tight containers for packing, labeling and transporting the samples to laboratory. Samples shall be collected as per IS:2720.	Each	3.00	147.17	441.51
8	021130	Conducting standard penetration test as per IS:2131 at approximate 1.5m intervals in bore holes, as directed by the Engineer in charge	Each	17.00	802.76	13646.92
		Conducting laboratory Tests on collected soil samples as per relevant IS code				
9	021151	Moisture Content/Dry Density	Each	17.00	267.59	4549.03
10	021152	Atterberg Limits	Each	17.00	600.73	10212.41
11	021153	Specific Gravity	Each	17.00	572.64	9734.88
12	021154	Grain size analysis including Hydrometer analysis	Each	17.00	838.89	14261.13
13	021155	Direct Shear Test	Each	17.00	2006.91	34117.47
14	021156	Natural Density	Each	11.00	668.97	7358.67
15	021157	Consolidation Test	Each	11.00	6689.69	73586.59
16	021158	Unconfined Compression Test	Each	11.00	1659.04	18249.44
17	021159	Tri-axial Test	Each	17.00	1591.70	27058.90
		Conducting Laboratory tests on collected ROCK SAMPLES as per relevant IS code				

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18	021161	Density Test	Each	3.00	267.59	802.77
19	021162	Water Absorption & Porosity	Each	3.00	327.79	983.37
20	021163	Hardness	Each	3.00	153.86	461.58
21	021164	Unconfined Compression Test	Each	3.00	2459.13	7377.39
		Earthwork in excavation by mechanical means (Hydraulic Excavator)/Manual Means for foundations and floors of the bridges, retaining walls etc. including setting out, dressing of sides, ramming of bottom, getting out the excavated material, back filling in layers with approved material and consolidation of the layers by ramming and watering etc. including all lift, disposal of surplus soil up to a lead of 300m, all types of shoring and strutting with all labour and material complete as per drawing and technical specification as directed by Engineer in charge. Note: This item will be used for excavation work in connection with other miscellaneous works also like side drains, foundation for OHE masts and other miscellaneous structures in connection with Gauge Conversion, Doubling, New lines.				
22	022011	All kinds of soils	cum	1980.00	189.31	374833.80
23	022012	Soft rock (not requiring blasting)	cum	406.00	391.64	159005.84
24	022014	Hard rock (blasting prohibited)	cum	208.00	1079.98	224635.84
		Providing and laying in position Plain cement concrete of specified Nominal Mix f o r miscellaneous works like side drains, foundation for OHE masts and other miscellaneous structures excluding the cost of Cement, centering and shuttering - All work up to plinth level :				
25	022034	1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size)	cum	100.00	2830.27	283027.00

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		Providing and laying in position machine batched, machine mixed and machine vibrated Cement Concrete of specified grade as per approved Design Mix (mixed in Mobile Concrete Batching/Mixing Plant at site or RMC from approved plants) using 20mm graded crushed stone aggregate and coarse sand of approved quality for the following Reinforced cement concrete structural elements up to height of 9.0 m from foundation top level, including finishing, using Plasticiser in approved proportions (as per IS:9103), to modify workability without impairing strength and durability complete as per specifications and direction of the Engineer in charge. Note : 1. Payment for cement, reinforcement and shuttering shall be made extra under relevant item. 2. Plasticiser shall invariably be used in approved proportion to increase workability with minimum possible quantity of cement for all grade of Design Mix Concrete unless it is specifically approved citing reasons for not using plasticiser at the stage of Mix Design and in that case deduction shall be made as per relevant item.				
26	022051	Abutment & Pier	cum	450.00	2876.21	1294294.50
27	022052	Wing wall and Return wall	cum	30.00	2876.21	86286.30
28	022053	Abutment cap, Pier Cap, Inspection Platform & Pedestal over Pier cap, Fender wall, Diaphragm wall etc.	cum	45.00	2913.57	131110.65

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29	024010	Providing and casting machine batched, machine mixed and machine vibrated Cement Concrete of specified grade as per approved Design Mix, mixed in Mobile Concrete Batching/Mixing Plant at site or RMC from approved plants, (Cast in-Situ/Pre-cast) in bottom/top slab, side walls, toe wall and sumps haunch filling head walls, thrust bed or any other component using 20mm graded crushed stone aggregate and coarse sand of approved quality of RCC box of any size including finishing, Plasticiser in approved proportions (as per IS:9103), to modify workability without impairing strength and durability, complete as per drawings and technical specifications as directed by Engineer in charge. Note : 1. Payment for cement, reinforcement and shuttering shall be made extra under relevant item. 2. Plasticiser shall invariably be used in approved proportion to increase workability with minimum possible quantity of cement for all grade of Design Mix Concrete unless it is specifically approved citing reasons at the stage of Mix Design and in that case deduction shall be made as per relevant item.	cum	1850.00	3081.65	5701052.50
30	024020	Providing and laying in position machine batched, machine mixed and machine vibrated Design Mix Cement Concrete, mixed in Mobile Concrete Batching/Mixing Plant at site or RMC from approved plants, of specified grade (cast in-situ) using 20mm graded crushed stone aggregate and coarse sand of approved quality in Drop and curtain wall and alike structures below bed level, complete in all respect as per drawings and technical specifications to the satisfaction of Engineer-in-Charge. Note: Payment for cement, reinforcement and shuttering shall be made extra.	cum	14.00	2801.50	39221.00
		Centering and shuttering including strutting, propping etc. and removal of form for :				
31	025031	All types of bridge sub-structures, e.g. pier, abutment, wing wall, retaining wall, RCC box type foundations, Abutment cap, Pier Cap, Inspection Platform & Pedestal over Pier cap, Fender wall, Diaphragm wall etc. up to 5m above ground level	Sqm	206.00	658.02	135552.12
32	025032	All types of bridge super-structures, e.g. slabs, I-girders, T-girders, Box girders etc. up to 5m above ground level.	Sqm	2570.00	850.82	2186607.40

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33	031040	Providing, fabricating & fixing in position to exact design profiles, H.T.S. cables of all classification made from Low Relaxation strands conforming to IS:14268- latest version in Prestressed (Post-tensioned) Concrete girders/slabs etc. including supplying, cutting, making into cables with necessary spacers, colour coding, protecting with water soluble oil at all time, anchoring of cables, supplying and placing spiral corrugated type galvanized metal steel ducts sheathing made up of Cold Rolled Cold Annealed (CRCA) mild steel conforming to IS:513 of required diameter/ thickness, vent pipe, placing, bending, routing, fixing, stressing & grouting of cable ducts with cement grout, Anchorage sets in required number with provision for future prestressing if any including all lead and lift with contractor's own materials, labour, equipments etc. complete as per drawings & specifications. Rate also includes covering anchorage pads with epoxy mortar of approved quality to avoid corrosion. Cement for grouting to be paid separately. Payment shall be made in terms of weight of HTS cables as per drawing.	MT	20.00	179997.62	3599952.40
		Loading, transportation of Precast RCC Girders / Slabs / Ballast retainers / Steel Girders etc. from Casting Yard to Site of Work, unloading and stacking at site of work at prescribed location as directed by Engineer-in-Charge up to 60 kms.				
34	031161	Up to 5.00 Km	MT	1350.00	135.25	182587.50
35	051030	Supplying of stone boulders weighing not less than 35 kg each at specified bridge locations.	cum	660.00	940.57	620776.20
36	051070	Providing and laying Pitching with Stone Boulders, weighing not less than 35kg each with voids filled with cement sand mortar 1:4 on slopes laid over prepared filter media including boulder apron laid dry in front of toe of embankment complete as per drawing and Technical Specifications (filter media to be paid separately under the relevant item). Rate is excluding cost of cement which shall be paid extra under relevant item.	cum	61.00	2475.40	150999.40
37	051080	Providing and laying Filter Material as per RDSO Specifications underneath pitching in slopes complete as per drawing and Technical Specification.	cum	565.00	2808.60	1586859.00

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38	051090	Laying Boulder Apron on river bed for protection against scour with stone boulders supplied by Railway with voids filled with spalls complete as per drawings and Technical Specifications.	cum	57.00	396.73	22613.61
		Grouting of masonry/concrete by injection process duly Sealing of cracks, through nipples complete as per Technical Specification and procedure given in IRBM Para No 209 including necessary admixture. Payment shall be as per use of cement by weight in case of neat cement/cement mortar grouting and weight of Epoxy in case of Epoxy Grouting. (Cement will be paid extra).				
39	052071	Neat Cement Grout with 20% anti shrinkage compound w.r.t. cement.	Kg	206.00	347.97	71681.82
40	052130	Providing weep holes by making suitable opening or drilling in existing Brick Masonry / Plain / Reinforced Concrete abutment, wing wall/return wall with 110 mm dia UPVC pipe (working pressure 4kg/sqcm) extending through the full width of the structure complete and repairing the same with cement mortar 1:2 (1 cement : 2 coarse sand). Rate is excluding the cost of cement which shall be paid extra.	Metre	180.00	408.66	73558.80
41	052210	Providing cast in situ bridge number plaques as per Railway drawing in cement concrete 1:2:4 mix using 20mm hard stone aggregate embedded in 30mm notch in Bridge parapet coping duly engraving the letter and figures and an arrow indicating the direction of flow and finishing the top exposed surface with cement mortar 1:3, painting letters and figures with two coats of black enamel paint on two coats of white background with all labour, tools, cement, paint etc. with all leads and lifts.	Each	6.00	760.62	4563.72
		Providing & laying non pressure NP-4 Class RCC pipe with collars, jointing with 1:2 cement and ordinary sand mortar including testing of joints, but excluding earthwork with all labour and material as a complete job. Cement for mortar will be paid separately. (Pipes of 600mm dia and above will be laid using crane/hydra).				
42	052231	300mm dia.	Metre	60.00	1462.71	87762.60

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43	052240	Supplying, spreading and filling coarse sand (no cohesive materials to be used) of approved quality including watering and ramming in foundation, behind the abutment, wing wall, retaining wall in layers not exceeding 150mm thick including its compaction as per direction of Engineer-in-charge. The rate includes all lead, lift, ascent, descent, crossing of Railway line etc. complete with contractor's labour, materials, tools and plant.	cum	565.00	2446.18	1382091.70
44	052250	Providing Boulder Backing behind wing wall, return wall, retaining wall with hand packed boulders & cobbles with smaller size boulders toward the back including all lead, lift, labour & other incidental charges as complete work in all respect. Payment for boulder/cobbles will be done extra.	cum	660.00	350.82	231541.20
45	052260	Dewatering of natural or accumulated water from any location. Payment to be done for Horse power of pump multiplied by pumping hours.	HP Hour	60.00	40.58	2434.80
Total						19755958.48

Schedule Schedule E-Supply of Reinforcement steel

Item- 5 Supply of Reinforcement steel

S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	5.0	REINFORCEMENT CEMENT CONCRETE				
	5.22S	STEEL REINFORCEMENT				
	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
1	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	355040	107.85	38291064
Total						38291064.00

Schedule Schedule F-COE and blanketing Items

Item- 6 COE and blanketing Items

S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
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		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. 2) Payment for Earthwork under this item shall be made based on the cross section measurements calculated (i) with original ground profile of existing bank based on initial ground levels before doing benching and (ii) final profile of the bank worked out with final levels as per prevailing guidelines.				
1	011031	Using Soil Class SQ1	cum	2350.00	183.42	431037.00
2	011032	Using Soil Class SQ2	cum	46900.00	259.03	12148507.00
		Earthwork in cutting in formation, trolley refuges, side drains, level crossing approaches, platforms, catch water drains, diversion of nallah & finishing to required dimension and slopes to obtain a neat appearance to standard profile inclusive of all labour, materials, plant & machinery, leading all cut spoils either to make spoil dumps or for filling in embankment with leads within 2 km on either side of edge of the cutting(s) including all lifts, ascent, descent, loading, unloading, bailing & pumping out water, if required, clearance of site and all other works incidental thereto for completing the work as per RDSO Specification No. RDSO/2020/GE: IRS-0004 with latest updated correction slips and to the satisfaction of the Engineer-in-Charge. Note: (i) All usable earth arising from cut spoils shall be led into bank formation and Unusable spoils shall be dumped / stacked away from toe of embankment. (ii) All hard rock /and boulders not fit for filling will be stacked by the contractor and will be property of the Railways. (iii)Cut trees shall be property of Railways and to be deposited in the railway godown unless specified otherwise in the Conditions of Contract.				
3	012011	In all conditions and classifications of soil except rock	cum	35000.00	101.03	3536050.00

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4	012012	Soft rock not requiring blasting	cum	6000.00	234.21	1405260.00
					Total	17520854.00
Schedule	Schedule G-Superstructural steel					
Item- 7	Superstructural steel					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Providing and fixing various size HTS holding down bolts conforming to relevant Codes/Specification in concrete column or in other structures with proper nuts, bolts, washers/plates, grouting of holes with cement or epoxy concrete with all material, labour, T&P as a complete job.				
1	041071	With Cement Grout. Cost of cement shall be paid extra.	Kg	820.00	113.27	92881.40
2	041190	Supply & applying two coats of bitumen emulsion of Grade RS-1, conforming to IS:8887 on the top surface of concrete deck slab (New bridges) @ 1.70 kg/sqm after cleaning surface with all materials, labour, tools and plants, equipment etc. complete.	Sqm	1140.00	117.17	133573.80
		Providing road crane of specified lifting capacity with specified jib length revolving type for material handling, assembly & erection of girders/slab/RCC Box etc.				
3	041203	50 MT capacity	Day	10.00	32085.05	320850.50
4	041208	250 MT capacity	Day	10.00	291393.22	2913932.20
5	041210	Extra for increase in road crane capacity over Item 041209 for every additional 1 MT capacity or part there of	Day	5.00	1290.27	6451.35
					Total	3467689.25
Schedule	Schedule H-Collection and Supply of Ballast					
Item- 8	Collection and Supply of Ballast					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Manufacturing, supply and stacking of machine crushed Track Ballast conforming to RDSO Specification (IRS-GE-1) with latest correction slips at Railway depot or nominated location. Note: Distance of nearest quarry mentioned in each sub-item is only for the purpose of selecting the items for preparation of estimates/tender schedule, based on the minimum distance between nearest quarry and centre of supply points and will not affect the selection of quarry during physical supply in any way till prescribed specification is met fully.				
1	085015	When distance of nearest quarry is more than 40 km and up to 50 km	cum	6160.00	1037.59	6391554.40
					Total	6391554.40
Schedule	Schedule L-USSOR Track Items					
Item- 10	USSOR Track Items					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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		Pulling & positioning of rails accurately on cess including supporting rails, providing required gap and squaring at ends for renewal preparation, as directed by Engineer in-charge.				
1	061011	Up to 40 m long rail panel	RM	5080.00	8.29	42113.20
		Lubrication of fish plated rail joints under traffic, by using Grease Graphite Grade 'O' (IS:408) and Black oil supplied by contractor, for all types of rail sections as per procedure laid down in latest version of IRPWM and as directed by Engineer In charge. Note: Release U/S bolt & nuts is to be deposited back. If any fish bolts is jammed it should be cut with chisel and hammer and replaced with fresh fish bolt supplied.				
2	063051	For 1.00m long fishplates	Joint	280.00	116.88	32726.40
3	063080	Lubrication of Elastic Rail Clips on PSC sleepers as per procedure prescribed in latest edition of IRPWM with Railway's grease.	ERC	15630.00	2.06	32197.80
		Gas cutting of rail of various sections with contractor's tools & plants, as directed by engineer in-charge :				
4	064052	Rail section of 52Kg and above	Each	140.00	114.74	16063.60
		Assembling and Laying of Improved Switch Expansion Joint (SEJ) on PSC sleepers of any rail section as per RDSO drawing including leading of SEJ rails, sleepers, fittings for a free lead of 250 metres, cutting of rails, drilling of holes as required and lubrication of SEJ, gauging, aligning rails, providing temporary connection with adequate welding gap with adjoining rails, providing reference posts at SEJ, first through packing of SEJ portion to make track geometry fit for 30 kmph speed and making ballast profile as per IRPWM. Note: (1) Rail cutting and hole drilling shall be paid separately.(2) One set comprise complete SEJ on both rails at SEJ.				
5	065031	Under Conditions not requiring Traffic Block	Set	4.00	6254.19	25016.76

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		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. Note: 1.Rail cutting and Drilling shall be paid separately 2. Required P.Way fittings/fastenings shall be supplied at the SSE/P.Way stores.				
6	072012	1 in 12 Turnout	Set	9.00	39122.64	352103.76
		Laying and linking of turnouts of all types including diamond crossings & Derailing switches with 52Kg / 60Kg rail section on PSC sleepers on prepared ballast bed for New lines or during total closure of section at indicated location as per standard drawing, duly leading sleepers, rails, switches, crossings, fastenings including rail cutting, drilling, fixing of all components, fittings with housing of tongue rails as per requirement of signaling, preparing ballast bed, filling and spreading of ballast as required, linking of turnout with track, attending track parameters including lifting, providing one round of packing to make track fit for 20 kmph speed including lubrication of fittings/fastenings, complete as directed by Engineer in-charge.				
7	072042	1 in 12 Turnouts	Set	9.00	46398.48	417586.32
		Lifting for increase in ballast cushion of existing points & crossing layouts up to 75mm or part thereof including approach and exit sleepers including one round of through packing, correcting the disturbed sleeper spacing, tightening of fittings, boxing of ballast and ramping out on either side at slope not steeper than 1 in 1000 or as directed. Note: Item will be paid only when lifting is 50mm or more.				
8	073012	1 in 12 Points & Crossing	Set	9.00	16531.56	148784.04

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		Lifting the newly inserted BG 60 Kg. / 52 Kg. turnouts/ trap switches to required level to provide full ballast cushion as per approved drawings after initial laying with Railway's stone ballast in convenient stages including one round of through packing after completion of final stage of lift, levelling, aligning, gauging and boxing to standard profile to make it fit for 20 kmph with all lead and lifts, complete in all respect and as directed by the Engineer-in-charge. Note: 1. The item shall be used only when UNIMAT is not available for the work before the turnout is opened for operation. 2. Leading and dumping of ballast will be paid separately under relevant item.				
9	073022	For 1 in 12 Points & Crossing	Set	9.00	9016.36	81147.24
		Recoupment of ballast in running line with railway's stone ballast from existing stacks available along alignment either on top of cutting or on cess or at toe of bank by head leads or by any other means and spreading to make up deficiency in the required profile with contractor's labour, tools & plants, as directed by Engineer-in-charge. Note: Payment shall be made based on ballast stack measurement.				
10	082011	For average lead up to 50m and lift up to 5m	cum	5130.00	86.39	443180.70
11	082012	Extra over item no. 082011 for each additional average lead of 50m or part thereof when total average lead exceeds 50m, but up to 250m. Note: This item may be used only in exceptional circumstance under prior order on record.	Each	512.95	24.47	12551.89
12	083010	Lifting and packing for regrading the existing PSC sleeper track to required height / level in stages not exceeding 75mm or part thereof at a time, providing permissible ramp for the track, insertion of moorum / sand / stone ballast uniformly under the existing track and placing the same to safe approved gradient, gauge, cushion including levelling and one round of through packing to allow train movement at restricted speed of 30 kmph for a specified length with all leads & lifts and fixing, marking, painting rail level pegs at every 30m interval. Note: Lifting of track shall be done in stages as per procedure prescribed in latest edition of IRPWM to get the proposed final level as per approved working profile, as directed by Engineer in-charge.	TRM	2540.00	161.94	411327.60
13	083011	Extra for additional lift over 75mm for every 50mm lift or part thereof up to 275mm for item nos. 083010 for each TRM.	TRM	1270.00	25.05	31813.50

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14	083030	Boxing and profiling of ballast as per procedure prescribed in latest edition of IRPWM including cess dressing on both sides of track. The work will include removing excess ballast from track and putting the same in crib and shoulder by leading to a maximum of 50m including crossing of track, deweeding on ballast section etc and as directed by Engineer-In charge.	TRM	2540.00	23.83	60528.20
15	084010	Loading Railway's ballast, collected at yard / depot into Railway's BOB / BKH / any other type of open wagon, using Mechanical Loader or any other method with all lead and lifts, as directed by Engineer in-charge.	cum	6160.00	38.66	238145.60
		Unloading of ballast from Railway's Hopper Wagons, quantity distribution as per pre-defined site requirement, clearing infringements/jammed ballast, distributing the unloaded ballast uniformly over the track, profiling and boxing following all prescribed safety norms.				
16	084041	Under Traffic Block Conditions:	cum	6160.00	47.67	293647.20
17	123030	Spreading of ballast, from existing stacks available along formation on top or at cess, in required uniform thickness, compaction of ballast layer laid on new formation at all the locations with smooth wheeled power roller of 8-10 tonne capacity to sufficient number of passes to form consolidated ballast bed of approximately 250mm thickness to a width of 4m symmetrical to centre line of proposed track in correct line & level with all ascents & descents, as directed by Engineer in-charge. Note: Item is inclusive of (a) providing ramp for taking roller to formation and removing the same & making good formation after completion of work; (b) redistribution & leveling of excess ballast while rolling to obtain uniform plane cambered surface.	cum	6160.00	42.19	259890.40

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		Linking of BG track (except at LC, Bridges and SEJs) with any type of rail section and sleeper of specified density, on ballast bed spread and compacted with suitable roller, over prepared formation including leading free rails/welded panels available along the alignment on to formation, leading and spreading all fittings and fastenings, spreading of sleepers at specified spacing, squaring, placing of rails over sleepers and fixing rails to sleepers with all types of fittings and fastenings to correct gauge & alignment, lubrication of fittings and fastenings with contractor's grease as per IRPWM standards with contractors labour, tools, consumables, with all lead, lifts etc. complete and raising, levelling and initial packing of track to make it fit for 30 kmph and meet other prerequisites prescribed in Indian Railway Track Machine Manual for deployment of Tamping Machine. Note: 1.Rail cutting and Hole drilling shall be paid separately. 2.Spreading of ballast and compaction shall be paid separately under relevant item.				
18	123042	For sleeper density of 1540 sleepers per km	TRM	2540.00	244.23	620344.20
		Shifting / Slewing the existing or newly assembled track of any rail section with any type of sleepers and any density under line block to correct locations & alignment and attending to one round kutcha packing to run safely at 20KMPH speed with all contractors tools and consumables complete and as directed by Engineer in-charge.				
19	123092	Maximum Shifting / Slewing for more than 1 metre & up to 2 metres	TRM	110.00	225.42	24796.20
		First or Second Through Packing of track of all sleeper density including giving a general lift, as desired to eliminate sag after Deep Screening work, lifting of track, lowering of track and major realignment of curves and formation rehabilitation as per procedure prescribed in latest edition of IRPWM. Note: General lift is normally 25 mm and isolated lift may be up to 50 mm.				
20	131031	For PSC Sleeper Track with Sleeper Density of 1540	TRM	5080.00	113.50	576580.00

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		Through packing of points and crossings, derailing switches including gauging, fittings recoupment, ballasting as required, elimination of sag and to the required alignment after Deep Screening as per procedure prescribed in latest edition of IRPWM complete as per direction of Engineer-in-charge. Note: This work shall be operated in exceptional cases with written approval at DEN level when UNIMAT is not available and immediate packing is required to pass train over it.				
21	131052	1 in 12 PSC layout	Set	17.00	13514.51	229746.67
		Maintenance of track on main line & loops, Points & crossings etc. including special attention to section for carrying out various maintenance works listed in Indian Railways P.Way Manual / Bridge Manual for safe running of goods and passenger trains with contractor's tools / labours etc. complete, as directed by Engineer in-charge. Note: Contractor shall arrange one gang at any point of time comprising of minimum specified labours with sufficient experience in P.Way working.				
22	136041	One mobile Gang comprising of 15 physically fit labours plus 1 Mate. Note: (1) In case, contractor provides less no. of Labour/Mate or for non availability of vehicle, payment will be deducted for each such person or non-availability of vehicle @ 20% of the accepted item rate, separately for each shortfall. (2) The Contractor shall keep one pick up Truck of minimum 1.5T payload capacity with Driver all the time and all expenditures for running at an average of 80 kms per day shall be born by the Contractor.	Gang Day	45.00	12789.61	575532.45
		Anti-corrosive painting of rail outside track on rail bottom, web, foot and fishing plane with two coats of thickness of 100 microns each by bituminous black paint confirms to IS-9862 of reputed make including surface preparation, as a complete job as per procedure prescribed in latest edition of IRPWM.				
23	137011	For 60 Kg Rails	RM	5080.00	48.22	244957.60

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		Carrying out pre-tamping, during tamping and post-tamping work for tamping track with all types of rails, sleepers & sleeper density by various Track Tamping machines, like CSM,DUO/3X Machines which include : (1) Re-adjustment of ballast, heaping-up of ballast, filling-up of cavities in tamping zone by picking ballast from stacks / shoulders / crib of adjoining track up to lead of 50 m to ensure effective packing; (2) Clearing of ballast on sleepers to make them visible to operator, (3) Clearing of ballast over rail foot to facilitate holding of rail by rollers of TTRM; (4) Digging, screening and replenishment of ballast at mud pumping / rounded ballast in sleeper crib location; (5) Tightening of loose fittings immediately before & after tamping; (6) Replacement of broken / missing fittings supplied by Railway; (7) Correcting displaced sleepers to position along with squaring; (8) Re-setting of worked-out / fallen fittings. (9) Removing and re-fixing joggled fish plates & wooden blocks, wherever necessary; (10) Manual consolidation of ballast in crib / shoulders; (11) Removing and refixing of traction bonds during the block in electrified sections (12) Dressing of ballast Note: 1. Tamping blocks are not identical & it may be given at any time either during day or night. 2. Stages of payment a) 30% of the rate will be paid on completion of pre tamping attention, b) Balance 70% of the rate will be paid on completion of post tamping. 3. Recovery at the rate of twice the above applicable rate will be effected in case contractor fails to carry out pre/during/post operation. 4.Payment shall be made only once in irrespective of numbers of TTRM packing round and after restoration of normal speed and restoration of complete ballast profile.				
24	155011	For day time block working	TRM	1270.00	17.26	21920.20
25	155013	New Line Section, not opened for traffic	TRM	2540.00	9.46	24028.40
		Carrying out pre-tamping, during tamping and post-tamping works prescribed in current version IRTMM/IRPWM for tamping of Turnouts of all types Under Conditions not requiring Traffic Block.				
26	156032	1 in 12 Turnouts	Set	9.00	5914.59	53231.31

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27	157020	Carrying out ancillary works required for UTV working under line block i.e., turning of rails/ Sleepers and keeping in position for fixing of UTV clamps to rail, keeping rails/PSC Sleepers in position while loading into BFR, removal of clamps on BFR for releasing loaded rail/Sleepers, adjusting of rails/Sleepers on BFR etc. by providing minimum of three men in a shift of 8 hours, with all contractor's tools, all lead, lift, crossing of tracks etc., complete and as directed by the engineer - in - charge. Note: In case, contractor provides less no. of Labour, payment will be deducted for each such person @ 2/3 rd of the accepted item rate.	Shift	7.00	2072.20	14505.40
		Quick cutting with abrasive rail cutter of all types of rail sections including wear resistant, head hardened rails up to 110 UTS, with contractors tools & plants, equipment, consumable with all lead & lift etc. complete as directed by Engineer in-charge. Abrasive Rail Cutter will be as per RDSO Specification No. TM/SM/1 (Rev. 01 of 2012) with latest status of RDSO; Rail Cutting Wheel Abrasive Disc will be as per RDSO Specification No.TM/SM/2 (Rev. 01 of 2020)				
28	161011	60 Kg - 110/90 UTS - Outside Track	Each	140.00	231.79	32450.60
29	161014	60 Kg - 110/90 UTS - On Running Line	Each	140.00	295.85	41419.00
		Drilling holes of 16 mm to 32 mm dia. with Rail Drilling machine including chamfering with appropriate chamfering tools in all types of rail section with contractor's tools & plants, equipment, consumable with all lead & lift etc. complete, as directed by Engineer in-charge. Rail Drilling Machine will be as per RDSO Specification No. TM/SM/3, dated 24.04.1991.				
30	161041	Outside Track	Each	1680.00	51.25	86100.00
31	161042	On Running Line	Each	340.00	66.26	22528.40
		Loading of rails of any section and length up to 13 metres in Wagons / Truck / trailer including lead up to 50 metres and lift up to 5 metres.				
32	171014	In Wagon where mechanical handling is possible and traffic block is not required or in Truck/trailer.	MT	325.00	116.63	37904.75
		Loading of tongue rail, stock rail, switch assembly and crossings of any section and length, SEJ, Glued joint etc. with / without P.Way fittings and fastenings, in Wagon / Truck / trailer including lead up to 250 metre and lift up to 5 metre.				

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33	171024	In Wagon where mechanical handling is possible and traffic block is not required or in Truck/trailer.	MT	65.00	114.87	7466.55
		Loading, leading and unloading of 52Kg / 60Kg rail up to 13 metre length by Railway's Rail Dolly / Dip Lorry to the nominated location under traffic with line protection in case road carriage is not possible with different lead with a lift up to 5 metre during block period.				
34	171031	For lead up to 500 metre.	MT	325.00	348.78	113353.50
35	171032	For lead beyond 500 metre and up to 1 Km.	MT	160.00	449.41	71905.60
		Unloading of rails of any section and length up to 13 metre, in neat manner for Railway usage from departmental material train (DMT) or contractor's / Railway's Truck/trailer including lead up to 50 metre, lift up to 5 metre and stacking in prescribed manner.				
36	171053	From Wagon where mechanical handling is possible and traffic block is not required or in Truck / trailer.	MT	325.00	86.15	27998.75
		Unloading of all type of rails of length 130 metre and beyond from end unloading rake and keep the panels in head-up position at specified distance from centre of track clear from any infringement.. Note: Contractor has to keep Oxygen and Acetylene gas with cutter as standby during the period of work.				
37	171071	During period of traffic block	MT	181.00	26.87	4863.47
		Loading of 52kg / 60kg PSC normal line and special sleepers up to 2.75 metre length in Depot / Station / Mid-section between stations in a neat manner to departmental material train (DMT) or contractor's / Railway's Truck/Trailer with crane or any other means including crossing of one track with free lead up to 250 metre and lift up to 5 metre, if required with contractor's labour, tools & plants, machinery, consumables etc. Note: In case of any damage to sleeper during loading, penalty @ 50% of the all inclusive cost of sleeper shall be levied.				
38	172014	In Wagon where mechanical handling is possible and traffic block is not required or in Truck / trailer	MT	1600.00	90.85	145360.00

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		Loading of 52kg / 60kg PSC line and special sleepers beyond 2.75 metre length including existing fittings and fastenings in Depot / Station / Mid-section between stations in a neat manner to departmental material train (DMT) or contractor's / Railway's Truck/trailer with crane or any other means including crossing of one track with free lead up to 250 metre and lift up to 5 metre, if required with contractor's labour, tools & plants, machinery, consumables etc. Note: In case of any damage to sleeper during loading, penalty @ 50% of the all inclusive cost of sleeper shall be levied.				
39	172024	In Wagon/Truck / trailer where mechanical handling is possible and traffic block is not required.	MT	340.00	114.43	38906.20
		Loading, leading and unloading of PSC Sleepers of 52Kg / 60Kg by Railway's Rail Dolly/ Dip Lorry to the nominated location under traffic in case road carriage is not possible for different leads and lift up to 5 metres.				
40	172031	For lead up to 500 metres	MT	1940.00	271.49	526690.60
41	172032	For lead beyond 500 metre and up to 1 Km	MT	970.00	401.94	389881.80
		Loading, leading and unloading of all types of P.Way fittings and all other miscellaneous material except Rails, sleepers, switches, crossings, SEJs and Glued Joints by road vehicles for different leads. Note: Lead shall be the shortest motorable road length between the points of loading and unloading.				
42	172041	Lead up to 5 Km	MT	7.00	153.48	1074.36
43	172042	Lead beyond 5 Km and up to 10 km	MT	7.00	192.87	1350.09
44	172043	Lead beyond 10 Km and up to 20 km	MT	7.00	246.67	1726.69
45	172044	Lead beyond 20 Km and up to 30 km	MT	7.00	312.40	2186.80
46	172045	Lead beyond 30 Km and up to 50 km	MT	7.00	403.95	2827.65
47	172046	Lead beyond 50 Km and up to 100 Km	MT	7.00	603.88	4227.16
48	172047	Lead beyond 100 Km and up to 150 Km	MT	66.00	902.74	59580.84
49	172048	Extra for every Km per MT beyond 150 Km over item no. 172047	MT-Km	21.00	3.05	64.05
		Transportation of Rails, sleepers, switches, crossings, SEJs and Glued Joints by road vehicles for different leads. Note: 1. Lead shall be the shortest motorable road length between the points of loading and unloading. 2. Loading and unloading shall be paid extra under relevant items.				
50	172051	Lead up to 5 Km	MT	232.00	49.56	11497.92
51	172052	Lead beyond 5 Km and up to 10 km	MT	232.00	88.96	20638.72
52	172053	Lead beyond 10 Km and up to 20 km	MT	232.00	142.75	33118.00

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53	172054	Lead beyond 20 Km and up to 30 km	MT	232.00	208.48	48367.36
54	172055	Lead beyond 30 Km and up to 50 km	MT	232.00	300.03	69606.96
55	172056	Lead beyond 50 Km and up to 100 Km	MT	232.00	499.96	115990.72
56	172057	Lead beyond 100 Km and up to 150 Km	MT	2320.00	798.82	1853262.40
57	172058	Extra for every Km per MT beyond 150 Km over item no. 172057	MT-Km	21.00	3.05	64.05
		Unloading of 52kg / 60kg PSC line and special sleepers up to 2.75 metre length in Depot / Station / Mid-section between stations in neat manner for Railway usage from departmental material train (DMT) or contractor's / Railway's Truck/Trailer with crane or any other means including crossing of one track and lead up to 250 metre & lift up to 5 metre with contractor's labour, tools & plants, machinery, consumables etc. Note: In case of any damage to sleeper during loading, penalty @ 50% of the all inclusive cost of sleeper shall be levied.				
58	172063	From Truck / Trailer	MT	1600.00	83.98	134368.00
		Unloading of 52kg / 60kg PSC special sleepers beyond 2.75 metre length in Depot / Station / Mid-section between stations in neat manner for Railway usage from departmental material train (DMT) or contractor's / Railway's Truck/Trailer with crane or any other means including crossing of one track and lead up to 50 metre & lift up to 5 metre with contractor's labour, tools & plants, machinery, consumables etc. Note: In case of any damage to sleeper during loading, penalty @ 50% of the all inclusive cost of sleeper shall be levied.				
59	172073	From Truck / Trailer	MT	340.00	87.89	29882.60
		Unloading of Switches / Crossings / SEJ Rails / Glued Joints of any rail section and length with or without P.Way fittings & fastenings in neat manner for Railway usage from departmental material train (DMT) or contractor's / Railway's Truck/Trailer with lead up to 250 metre & lift up to 5 metres.				
60	173013	From Truck / Trailer	MT	65.00	118.20	7683.00
		Collection, segregation and stacking of various scattered P.Way materials at nominated stacking location with serviceable and un-serviceable ones separately within a lead up to 500 metre and lift up to 5 metre including crossing of track(s) wherever necessary as directed by Engineer-in-Charge.				
61	173031	Rails, switches, crossings, SEJ, Glued Joints, Check Rails etc.	MT	390.00	332.98	129862.20
62	173032	All type of PSC sleepers	MT	1940.00	364.82	707750.80

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63	173033	P.Way fittings of all types and other similar loose items	MT	7.00	350.61	2454.27
		Manufacturing, fabricating and supplying retro-reflective Engineering Indicator boards, made of 2mm thick aluminium sheet or 3mm thick aluminium composite sheet, face to be fully covered with high intensity encapsulated type heat activated retro-reflective sheeting conforming to type-IV of ASTM-D4956-01 in yellow & black or other colour combination including subject matter, message, symbols, borders etc. as approved by Engineer In-charge or as per IRPWM guidelines, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class-2 of ASTM-D-4956-01 and fixing the same with suitable sized aluminium alloy rivets @ 20 cm c/c to back-support frame of M.S. angle iron of size 25mm x25mm x 3mm provided all along the edges of board with theft resistant measures back side of board shall be with non-peelable weatherproof paint, consisting of one coat of zinc chromate primer and two coats of epoxy paint. Vertical post shall have black & white anti-corrosive paint or powder coating complete, as directed.				
64	202021	Caution Indicator Board of size 1400mmx400mm with back support frame fixed to vertical post of MS angle of size 50mmx50mmx6mm of 3650 mm long	Each	4.00	5940.47	23761.88
65	202022	Speed Indicator Board of equilateral triangular shape having each side of 1000mm with back support frame fixed to vertical post of MS angle of size 50mmx50mmx6mm of 3650 mm long	Each	4.00	5088.38	20353.52
66	202024	Termination Indicator Board of Circular shape having diameter of 1000mm with back support frame welded to vertical post of MS angle of size 50mmx50mmx6mm of 3950 mm long	Each	2.00	7340.05	14680.10
67	202030	Manufacturing, supplying and fixing Curve Indicator / Point Indicator / SEJ Boards to be provided at various locations on formation, made out of MS sheet 2mm thick of size 450mm x 300mm duly fixed with MS frame of 25mm x 25mm x 3mm angle welded to 50mm x 50mm x 3mm MS angle, 1000mm long post split and bent 100mm at bottom end with all lead & lift as per specification and including painting of details with enamel paint, as directed by Engineer in-charge (Earthwork & concreting will be paid separately)	Each	17.00	1073.66	18252.22

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		Hiring of machinery for minor miscellaneous works for short duration including operator/driver, fuel, lubricants and consumable. The contractor shall arrange all statutory permits as required by rules and regulations prevailing in the area of work. Payment shall be made for actual working hours at site.				
68	211201	JCB Backhoe Loaders 3DX Plus or similar with minimum 1.10 cum bucket capacity	Hour	32.00	754.10	24131.20
69	211250	Manufacturing and fixing buffer stop with Railway supplied rails, cutting, including bending of rails as per plan ,with all contractor's labour, materials, tools, plants etc. and all lead and lift including crossing of track where necessary a n d as directed by Engineer in charge at site. Note: Excavation, fixing rails in cement concrete, drilling of holes will be paid separately.	Each	4.00	14764.14	59056.56
					Total	10229115.98
Schedule Schedule M-NS Items Civil						
Item- 11 NS Items Civil						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Preparation of Site plan, GAD and designing foundation and other structural design, preparation of detailed structural drawing and submission of design calculation with check print for verification and corrections, carrying out correction as per corrected check print and submission of 4 copies of drawing with negative and floppy etc., as per general arrangement drawing a n d submission of completion drawing as per the execution in tracing paper/tracing film after completion of work duly incorporating any deviation/changes carried out during execution from original a p p r o v e d drawing without completion drawing final bill will not be finalized.	Sqm	1156.00	120.00	138720.00
2	2	Float glass panes of nominal thickness 5 mm (weight not less than 12.50 kg/sqm)	Sqm	105.00	370.30	38881.50
3	3	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	Sqm	35.00	182.00	6370.00
4	4	Weather Silicon sealant (Unit= Cartidge)	Per Unit	48.00	87.50	4200.00
5	5	Hermetically sealed double glazed unit made with 6 mm thick clear float glass both side having 12 mm air gap	Sqm	16.00	1820.00	29120.00
6	6	Toughened glass 12 mm thickness	Sqm	20.00	1347.50	26950.00
7	7	Carriage of Materials : Mechanical Transport including loading ,unloading and stacking: Sand, stone aggregate below 40 mm nominal size-5-10km	cum	10.00	10.00	100.00

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8	8	Supplying and spreading of sand in lawn area, including watering, and dressing complete.	cum	10.00	1397.15	13971.50
9	9	Hardening compound	Litre	330.00	27.30	9009.00
10	10	Supplying and applying surface hardener for sqm concrete floors ready to use, specially graded, non metallic and mineral aggregate dry shake surface hardener free from oil and grease to be sprinkled at 9 kg/sqm of surface area. Complete with finishing	Sqm	6050.00	186.89	1130684.50
11	11	"Providing and laying Cement concrete or RCC M25/M30/M35/M40 in pre-cast for Platform wall, raft, abutment, dirt wall, return wall, wing wall, fly wing wall, retaining wall, approach slab for inspection steps, mslab for inspection path, coping slab for bridge, slab for bank slope, foot path slab, wearing course, ballast retainers, RCC railing, inspection platform, pedestal, boxes and other miscellaneous works using well graded stone aggregate of 20mm nominal size, Transportation to site from casting yard, launching, laying, aligning and jointing the pre-cast items including road movement upto the nearest approachable point and short leading by rail lorry etc... Wherever required as directed by Engineer-in-charge. The rate is inclusive of cost of all men, machinery, materials and construction / repair of approach roads as per requirements for which no extra payment will be made. Payment to be released in two stages. 1. 50% on casting of precast components, 2. 45% on transportation and launching of precast components to the site, and 3. balance 5% on completion of balance works 4. Rate excluding cost of Cement & Steel work which will be paid under relevant items of Schedules."	cum	290.00	9100.00	2639000.00
12	12	Carriage of Materials : Mechanical Transport including loading ,unloading and stacking: Manure or sludge-2km	cum	20.00	110.49	2209.80
13	13	Supply of Insecticide/Pesticide : i. Lindane dust	Kg	10.00	17.54	175.40
14	14	SUPPLY OF FERTILIZER/ORGANIC MANURE : vi.Zinc Sulphate	Kg	30.00	40.77	1223.10
15	15	Supply of Plants/Trees - supplying- Cassia fistula(4to5ft)	Each	10.00	800.00	8000.00
16	16	Supply of Plants/Trees - supplying- Jacaranda mimosaefolia (4to5ft)	Each	10.00	450.00	4500.00
17	17	Supply of Plants/Trees - supplying - Plumeria alba (4 to 5ft)	Each	5.00	5000.00	25000.00
18	18	Supply of Plants/Trees - supplying- Plumeria rubra (4 to 5ft)	Each	5.00	3500.00	17500.00
19	19	Supply of grease graphite (FWP 2023-24)	Kg	2500.00	140.70	351750.00

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20	20	Carriage of Materials : Mechanical Transport including loading ,unloading and stacking: Earth-2 km	cum	20.00	127.06	2541.20
					Total	4449906.00
Schedule	Schedule N-General Electrical Items					
Item- 12	General Electrical Items					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable surface GI box / recessed PVC Box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.	Numbers	78.00	1015.00	79170.00
2	2	Supply and fixing of 50MM dia, medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required	Metre	500.00	284.00	142000.00
3	3	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Metre	1000.00	275.00	275000.00
4	4	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Metre	1000.00	334.00	334000.00
5	5	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 6 sq. mm + 1 X 6 sq. mm earth wire	Metre	300.00	439.00	131700.00
6	6	Supplying and fixing suitable size surface GI box / recessed PVC Box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required	Numbers	48.00	477.00	22896.00
7	7	Supplying and fixing suitable size surface GI box / recessed PVC Box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required	Numbers	16.00	586.00	9376.00

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8	8	Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including connections etc. as required.	Numbers	78.00	87.00	6786.00
9	9	Supplying and fixing PVC batten/ angle holder including connections etc. as required.	Each	33.00	110.00	3630.00
10	10	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) -6 way, Double door	Each	4.00	2206.00	8824.00
11	11	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)-4 way (4+12) , Double door	Each	4.00	4091.00	16364.00
12	12	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of Single pole in the existing MCB DB complete with connections, testing and commissioning etc. as required.	Numbers	24.00	256.00	6144.00
13	13	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of Double pole in the existing MCB DB complete with connections, testing and commissioning etc. as required.	Each	24.00	656.00	15744.00
14	14	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of Triple pole and neutral in the existing MCB DB complete with connections, testing and commissioning etc. as required.	Numbers	4.00	1228.00	4912.00
15	15	Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required-25 A	Each	4.00	2028.00	8112.00
16	16	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of Triple pole and neutral in the existing MCB DB complete with connections, testing and commissioning etc. as required.-40A	Each	4.00	3188.00	12752.00

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17	17	Supply and fixing of 20 A, 240V, SPN Industrial type socket outlet, with 2 pole and earth, metal enclosed plug top along with 20 A "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with the connections, testing and commissioning etc as required.	Each	10.00	1621.00	16210.00
18	18	Earthing with GI earth pipe 4.5 Mtr long, 40 mm dia including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc, with charcoal / coke and salt as required.	Each	6.00	6855.00	41130.00
19	19	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of upto 35 sq. mm size direct in ground including excavation and refilling the trench etc as required, but excluding sand cushioning and protective covering.	Metre	1500.00	200.00	300000.00
20	20	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of above 35 sq. mm and upto 95 sq. mm size direct in ground including excavation and refilling the trench etc as required, but excluding sand cushioning and protective covering.	Metre	1000.00	217.00	217000.00
21	21	Supply and making end termination with brass compression gland and aluminium lugs for 4 x 95 sqmm size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade.	Metre	10.00	588.00	5880.00
22	22	Supply and making end termination with brass compression gland and aluminium lugs for 16 sqmm size, 4 core PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade all as per detailed specified and directed.	Metre	100.00	309.00	30900.00
23	23	Supply and making end termination with brass compression gland and aluminium lugs for 4 x 35 sqmm size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade all as per detailed specification and as directed.	Metre	25.00	370.00	9250.00
24	24	Providing and making steel pole collar with cement concrete (1:3:6) with stone aggregate 20mm nominal size in foundations of specified size and shape including form work, plastering if required, curing etc as required. (volume of pole/ pipe not to be deducted)	cum	10.00	8135.00	81350.00
25	25	Providing ,laying and fixing 100mm dia G.I pipe (medium class) in ground complete with G.I fittings including trenching (75mm deep) and refilling etc as required	Metre	100.00	1806.00	180600.00

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26	26	Supplying, installation, Testing & Commissioning of LED surface mounted Batten light 18- 22 watt of following body material and construction as per IS : 10322 with driver (Replaceable) as per the requirement with Driver efficiency>85% ,Operating voltage AC 140-270 Volt, freq 50/60 hz, Operating temp range -15 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 20% , P. F.0.9, IP20, CRI >75, life time (LED,Driver & electrical circuitary), of minimum 50000 Burning Hours with , Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy >75 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C). Powder coated die cast / Extruded aluminium Body (Thickness 1.20 mm). The fitting shall comply the CEE/SWR Specification enclosed in specification.	Each	105.00	675.00	70875.00
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27	27	Supplying, installation, Testing & Commissioning of Flood Light 50 W powder coated pressure die cast aluminum body (System lumen efficacy >75 lm/Watt) with built in or separate driver as per the requirement with Driver efficiency >85%, Input voltage: Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 20% as per IEC 61000-3-2 , P.F.0.95, IP-66,IK-10, CRI >75 , under voltage and over voltage protection, EMI-EMC as per CISPR-15, lenses for beam angle 30 deg-120deg as per the application and the project requirement deg, suitable tilt able fitting, life time (LED,Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report , Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C).The fitting shall comply the CEE/SWR Specification enclosed in specification	Each	7.00	2606.00	18242.00
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28	28	Supplying, installation, Testing & Commissioning of Flood Light 250 W powder coated pressure die cast aluminum body (System lumen efficacy >75 lm/Watt) with built in or separate driver as per the requirement with Driver efficiency >85%, Input voltage: Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 20% as per IEC 61000-3-2 , P.F.0.95, IP-66,IK-10, CRI >75 , under voltage and over voltage protection, EMI-EMC as per CISPR-15, lenses for beam angle 30 deg-120deg as per the application and the project requirement deg, suitable tilt able fitting, life time (LED,Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report , Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C).The fitting shall comply the CEE/SWR Specification enclosed in specification	Each	24.00	5443.00	130632.00
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29	29	Supplying, installation, Testing & Commissioning of 120 W Street light LED fixture powder coated pressure die cast aluminum body with driver as per the requirement with Driver efficiency >85%, Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 20% as per IEC 61000-3-2 , P. F.0.9, IP- 65,CRI >75, life time (LED,Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 , Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy >75 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C)-120W.The fitting shall comply the CEE/SWR Specification enclosed in specification	Each	42.00	2606.00	109452.00
30	30	Supply, Installation, Testing and Commissioning of ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. metal (Aluminum alloy) blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, steel/Al body Power Factor not less than 0.9, Service Value (CM/M/W) minimum as below, 350 RPM (tolerance as per IS : 374-2019), THD (Total Harmonic Distortion) less than 5%, remote (preferably mobile app based) for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Ceiling Fan compliant to IS 374:2019 fan 1200mm, service value 6.0 CM/Min/Watt, air delivery 220 CM/Min (Minimum) Supply, earthing etc. complete as req. The fan shall comply the CEE/SWR Specification enclosed in specification	Each	60.00	2381.00	142860.00

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31	31	Fabricating, supplying and erection of 6ms long hot dip Galvanized Octagonal hot dip Pole with BSEN 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/s for 6m Pole in single section and single joint welded as per IS 9595/IS10178AWS having dimensions bottom 130 mm , top 70mm with 3 mm thick, suitable base plate and 4Nos of long J bolts along with template and the Pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and 153 etc., (excluding foundation) as per drawing appended.	Each	30.00	13924.00	417720.00
32	32	Fabrication, Supplying, Erection, Testing and Commissioning of 16 mts long Polygon high mast with Single/Multiple telescopic sections having, (minimum overlap distance of 1.5 times of top section) thickness as per BSEN 10025 grades 355 JO/ASTM A572-50 steel sheet plate for shaft suitable to withstand a wind velocity of 47 m/s as per IS 875 part 3(as per GA Drawing). Base plate as per IS 2062/ASTM A572-50. The mast shall be Galvanized in single Hotdip as per BSEN ISO 1461/ASTM A123 with an average 70 microns as per IS 2629, and welded as per BS 5135 Single L-Seam joint The mast shall have 2 Way head frame with die cast LM-6 pulleys, stainless steel axle, Phosphorus Bronze bearing bush press-fitted with separate guides for 2 runs of 5 mm dia, stainless steel wire rope of AISI 304grade 7/19-core, (Factor of Safety as per TR no-7). 2.5 mm ² EPR insulated PCP sheathed trailing power cable housed inside the bottom shaft of mast with door having locking arrangement The mast shall have manual/power tool (Suitable reversible geared motor operating on 230/415V, 50Hz, shall be provide above 15 Mtr mast) The mast shall have lantern of 2 segments, suitable dia with max load carrying capacity as per IS 1239. The mast shall be erected on existing RCC footing. The mast shall be supplied with 3 mm thick template, lightning arrester of 1.2m length galvanized pipe with top arrow fitted on top of the head frame cover and GLS type aviation twin I A fitting with wiring complete. (excluding foundation) as per technical data.	Each	2.00	230100.00	460200.00

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33	33	Supplying, and fixing of Hot dip Galvanized M.S.Bracket suitable for out door luminaries and mounted on Octagonal pole using necessary bolts, nuts etc., complete. Double Arm Bracket with 1000 mm Standard 40/50 mm dia	Each	30.00	3186.00	95580.00
34	34	Supplying of 1440rpm heavy duty exhaust fan with bracket blades suitable to operate on 230V 50Hz, AC Supply complete-12" Sweep (300 mm)	Numbers	10.00	3503.00	35030.00
35	35	Installation charges for split type air conditioner with allied works for one indoor and one outdoor unit is to be mounted on suitable Angle Iron support upto 3.0 Ton split/cassette type A/C.	Numbers	6.00	3747.00	22482.00
36	36	Supplying 25 litres capacity vertical/horizontal type wall mounting Electrical water heater with 22 SWG copper/SS sheet metal inner Container tinned inside Fiber body outside, filled with glass wool between inner and outer container for thermal insulation complete. The inlet and outlet pipes so arranged that water flow inside results in water to flow out from the inner container without turbulence. The Inner container shall have direct immersion type copper tube nickel plate. 2kW capacity element with a neon indicator fitted with 20A capacity 25 to 85 degree Centigrade range thermostat. The water heater shall completely be wired with 40/0.0076 inch 3 core copper flexible wire of 1.5 meters length and the outer container provided with heavy gauge brackets for wall mounting.	Numbers	4.00	14076.00	56304.00
37	37	Supplying, erecting, testing and commissioning of voltage stabilizer suitable for 170 to 270 v input and load variation from no load to full load, with over load protection, spike suppression, operating at 00 C to 400 C. Range etc., complete.-3 kva	Each	6.00	4714.00	28284.00
38	38	Supplying & fixing of retro fit type-LED bulb 12W, 6500K with OPAL acrylic diffuser comprising of LED source as per detailed specification	Numbers	33.00	317.00	10461.00
39	39	Supplying and installation of insulated refrigerant copper tubing of 5/8" and 3/8" with polythene foam insulation 3 core 80 standcopper wiring between indoor and outdoor unit Leak testing oiland gas charging for additional piping length of tube. split type	Metre	60.00	1828.00	109680.00

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40	40	Trenchless cutting to cross the cable across the track / road,duly supply and provided with HDPE pipe of size 90.9 x76.5mm to pull LT/HT UG cable & Fixing/laying of HDPE pipe of size 90.9mm x 76.5mm as per instruction of Engr-in-charge (Scope includes cost for horizontal drilling, cost of pipe and laying of pipe etc.b ut charge for laying of cable is not included)	Metre	100.00	1001.00	100100.00
41	41	Supply of foundation bolts manufactured from special steel along with nuts, washers, anchor plate and common template.	Set	2.00	7242.00	14484.00
42	42	Supply of outdoor stand mounted feeder pillar with 36A TPN MCB incomer, single dial time switch,25A TP contactors for the automatic switching of luminaries, power tool control with 2no 9A contactorsand raise lower push button,Incoming 35 sq.mm and out going16 & 2.5 sq. mm terminals.	Set	2.00	17891.00	35782.00
43	43	Construction of shallow foundation with M20 grade concrete for the high mast considering the safe soil bearing capacity at site as10 T/sqmtr at 2metre depth with all materials and labour.	Job	2.00	59635.00	119270.00
44	44	Installation of the mast feeder pillar by grouting the stand in concrete	Numbers	2.00	3408.00	6816.00
45	45	"Supply, fixing, connecting, testing and commissioning of LT Control Panel, cubical indoor type, 200 A, 3 phase 4 wire system, insulated copper bus bars of size 20 mm x 6 mm, opening from both front and rear sides, separate compartments for each control gear, cable alley and provision of knock out type entry plates suitable up to 95 sqmm size cables, panel made out of 14 guage CRCA sheet, epoxy powder coated with grey matt finish ,including base frame made out of 50 x 50 x 6 mm angle iron sections, embedded in PCC 1:3:6 foundation, consisting of the following switchgears and metering devivces:- i) MCCB, 415 V AC, 200 4P, 36 KA, microprocessor based release - 2 No ii) MCCB, 415 V AC, 100 4P, 30 KA, microprocessor based release - 4 No iii) ONLINE CHANGE OVER SWITCH-1 No, 400 A (iv) 40 A 415 V, 4 pole isolator-10 Nos (v) Capacitor bank of 10 kVAR capacity with Multifunction meter, LED pilot lamps and phase selector switch with all concern materials and works as per detail specification."	Each	1.00	187391.00	187391.00
					Total	4131375.00
Schedule	Schedule A1-Horticulture					
Item- 13	Horticulture					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	2.0	HORTICUTURE AND LANDSCAPING				

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1	2.2	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	cum	20	515.6	10312
	2.4	Supplying and stacking at site dump manure from approved source, including carriage upto 5 km lead complete (manure measured in stacks will be reduced by 8% for payment) :				
2	2.4.1	Screened through sieve of I.S. designation 20 mm	cum	20	254.15	5083
3	2.7	Fine dressing of the ground.	Sqm	200	3.7	740
4	2.8	Spreading of sludge, dump manure and/or good earth in required thickness as per direction of officer-in-charge (cost of sludge, dump manure and/ or good earth to be paid separately).	cum	20	52.35	1047
	2.19	Edging with bricks laid dry length wise, including required excavation, refilling, consolidating with hand packing and spreading surplus earth neatly within a lead of 50 m :				
5	2.19.1	Common burnt clay F.P.S (non modular) bricks of Class designation 7.5	Metre	40	396.9	15876
	2.30	Providing Circular Cement Concrete pots of specified size, cast with cement concrete of nominal mix 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 6 mm nominal size), reinforced with 7 Nos (3 nos horizontal & 4 nos vertical " U " shape) M.S. wires of 3.5 mm dia as per design, including required form work, finishing with cement punning on exposed surface, curing for specified period and stacking in required rows & height, all complete as per direction of Officer-in-charge.				
6	2.30.1	Top inside dia 30 cm, outer bottom dia 20 cm, total height 30 cm with wall thickness of 25.4 mm	Each	20	257.6	5152
7	2.33	Providing and laying Neelgiri/Mexican grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with tools wooden (Dhurmos) and then rolling the surface with light roller make the surface smoothen and light watering with sprinkler and maintenance for 30 days or more till the grass establish properly, as per direction of officer-in-charge	Sqm	100	214.4	21440
8	2.53	Providing and watering of irrigation water through water tanker of Horticulture features i.e. lawn, tree, shrubs, hedge/edge, ground cover etc. at the site of work. Water tanker having 5000 lit. capacity with one labour for watering i/c cost of water, filling of tanker, watering at site with all leads and lifts as per direction of officer-in-charge.	Per Trip	30	932.95	27988.5

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	2.57	Plantation of Trees, Shrubs, and Hedge at site i/c watering and removal of unserviceable material's as per direction of officer in charge (excluding cost of plant & water)				
9	2.57.1	Trees Plant	Each	20	7.3	146
	3.0	FOLIAGE AND SHADE LOVING PLANTS				
10	3.14	Providing and displaying of Araucaria cookie having ht. 75 cm to 90 cm, straight, well developed, fresh and healthy with lush green leaves from bottom to top in 25 cm size of Earthen pot/Plastic pot & as per direction of the officer-in-charge.	Each	8	215.25	1722
11	3.18	Providing and displaying of Areca Palm having ht. 90 cm to 1.20 m with 4 to 5 suckers, well developed, fresh and healthy with lush green foliage in 25 cm size of Earthen pot/Plastic pot & as per direction of the officer-in-charge.	Each	8	157.85	1262.8
	4.0	SEASONAL PLANTS				
	4.15	Winter Seasonal plants				
12	4.15	Providing and Displaying Cineraria dwarf in different colour with fresh & healthy foliage well developed in 20 cm Earthen Pot/Plastic Pot and as per direction of the officer-in-charge.	Each	10	54.35	543.5
	6.0	GROUND COVERS PLANTS				
13	6.12	Providing and stacking of Duranta Golden, having ht.15 to 20 cm bushy shape with fresh and healthy leaves in 15 cm size of Earthen Pot/Plastic Pot & as per direction of the officer-in-charge.	Each	30	20	600
					Total	91912.80
Schedule	Schedule I1-Survey works NS					
Item- 9	Survey works NS					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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1	1	FLSD-16 : Minor Bridges / SUBWAYS / FOBs: Preparation of the General Arrangement Drawing for all Minor bridges / SUBWAYS / FOBs through MX Rail/ AutoCAD for railway standards / formats as per Check list of Dyce / planning / BNC based on finalized L - section for the proposed alignment, hydrological investigation & detailed geotechnical investigation carried out by the consultant at proposed bridge locations, on good quality tracing paper and submitting the same to Railway administration for approval and carrying out the corrections as instructed by railway with all consultants own men, material, tools & plants, Computer systems etc., as directed by Engineer in charge. Notes: 1) MINOR BRIDGE GAD should include incorporation of - a) Sub structure details with type of construction, type of foundation (pile / open), depth of foundations, footing details / pile founds details, foundation pressure, abutments / pier / Box details duly showing bore log details of sub soil along with SBC details of every soil strata at every abutment & piers / Box locations b) Span arrangements with details of Bed level, HFL, VC, Free board, Scour depth, Rail level, formation level, Clear span, effective span, catchment area, Q50 discharge c) Super structure details like type of structure (Steel / PSC / RCC), type girder / slab / Box details, depth of construction, bearing details, wearing coat, track structure with cushion details d) Approach details like parapets, approach slab, back fill material as per RDSO specifications, protective works such as wingwalls, bank toe walls, pitching, type of flooring / drop wall / curtain wall details as per scour depth & silt factor criteria. e) Modus operandi of entire bridge construction 2) SUBWAY GAD should include incorporation of - a) Sub structure details with type of construction, type of foundation, depth of foundations, foundation details, foundation pressure duly showing bore log details of sub soil along with SBC details of every soil strata b) Span arrangements of Subway (RCC Box) with details of carriage way of Box, footpath, total barrel length required to cater all existing tracks including future tracks, height of subway required as per standards.	Each	3.00	8888.00	26664.00
					Total	26664.00
Schedule	Schedule I2-Survey works SOR					
Item- 10	Survey works SOR					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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		Preparation of completion drawings of yard in AutoCAD, showing all the details, such as circulating area, approach road, platform shelter, platform, FOB etc., showing relevant particulars to appropriate scale as per IR's Engineering Code on approved quality, transparent media as per details supplied by Railways, including submission of check print for proof checking, duly incorporating the suggested corrections and modifications and supplying the final plot on approved quality & transparent media with six copies of ammonia prints complete and soft copy, as directed by Engineer in-charge Note: (i) Drawings shall be prepared by using latest drawing making softwares AutoCAD, Work station etc. and printing shall be done on high end latest plotters. (ii) Stage Payment - (a) For check print - 40% (b) For Paper tracing - 40% (c) For Ammonia print & soft copy - 20%.				
1	124042	Completion drawing of building	Each	1.00	4755.30	4755.30
2	124043	Completion drawing of land plan	Kilometre	2.50	4715.16	11787.90
3	124044	Completion drawing of way side station	Each	1.00	2784.78	2784.78
					Total	19327.98
Schedule	Schedule SA-S&T SOR Items					
Item- 14	S&T SOR Items					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	01010100	Supply of Signal aspect - LED Signal Lighting Unit Red with current regulator, as per RDSO specification No. RDSO/SPN/199/2010 revision 1.1 or latest.	Numbers	24.00	9409.00	225816.00
2	01010200	Supply of Signal aspect - LED Signal Lighting Unit Yellow with current regulator, as per RDSO specification No. RDSO/SPN/199/2010 revision 1.1 or latest.	Numbers	26.00	9846.00	255996.00
3	01010300	Supply of Signal aspect - LED Signal Lighting Unit Green with current regulator, as per RDSO specification No. RDSO/SPN/199/2010 revision 1.1 or latest.	Numbers	15.00	10737.00	161055.00
4	01010500	Supply of Signal aspect -Calling On LED Signal Lighting Unit with current regulator, as per RDSO specification No. RDSO/SPN/153/2011 Rev 4.1 or latest.	Numbers	20.00	8330.00	166600.00
5	01010600	Supply of Signal aspect -Shunt LED Signal Lighting Unit with current regulator, as per RDSO specification No. RDSO/SPN/153/2011 Rev 4.1 or latest.	Numbers	40.00	7236.00	289440.00
6	01010700	Supply of Multi Lamp Numeric Route indicator (LED Single digit) from 1 to 9 & G with white LED (with housing) as per the latest specification.	Set	3.00	109520.00	328560.00

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7	01011000	Supply of Colour light Signal Pole 140mm dia, 3.6m tall as per latest specification IRS:S 6-81 Rev.3 or latest	Numbers	22.00	6622.00	145684.00
8	01011200	Supply of CLS ladder with Platform and Shoes to suit CLS pole 3.6m, as per latest specification.	Set	22.00	6726.00	147972.00
9	01011300	Supply of Surface Base to suit CLS Signal Pole 140mm dia as per latest specification.	Numbers	22.00	8966.00	197252.00
10	01011400	Supply of Off-set brackets - large made of cast iron with necessary inspection as per latest specification.	Numbers	2.00	4127.00	8254.00
11	01011500	Supply of Off-set brackets - small made of cast iron with necessary inspection as per latest specification.	Numbers	14.00	2797.00	39158.00
12	01011900	Supply of FRP 2 aspect color light unit assembly as per RDSO Spec. No. RDSO/SPN/194/2006 Rev .2.0 or latest (Terminal box, mounting socket, hood, side flange and fixing bolt & nut, eye bolt, M12 bolt-3 Nos. and Fixing bolt 08 Nos)	Numbers	12.00	34696.00	416352.00
13	01012000	Supply of FRP 3 aspect color light unit assembly as per RDSO Spec. No. RDSO/SPN/ 194/2006 Rev.2.0 or latest (Terminal box, mounting socket, hood, side flange and fixing bolt & nut, eye bolt, M12 bolt-3 Nos. and Fixing bolt 12 Nos)	Numbers	10.00	37009.00	370090.00
14	01012200	Excavation of pit, casting concrete foundation as per Drg.No.SG/SWR/052 using metallic templates, for erection of colour light signals up to 4 aspects. [Foundation bolts, cement, river sand, stone jelly of size 20/25mm dia and all other miscellaneous materials required for the work shall be supplied by the Contractor].	Numbers	22.00	11255.00	247610.00

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15	01012300	Erection of surface base, signal pole, mounting of colour light signal up to 4 aspects complete on Signal pole/ Off-set bracket, (for LED/ filament bulbs) with lenses, triple pole lamp holder, filament switching units, CLS transformer, current regulators (whichever is applicable), fixing of ladder with platform complete and concreting of ladder shoe, fixing of number plates, marker board, lens guard, fixing of speed limit board wherever necessary, termination of tail cables, wiring of signal unit with PVC wire 3/0.75mm copper, provision of EWS locks, and painting of one coat of red oxide and two coats of aluminium/ enamel paints. When the aspect is fixed on Offset bracket using 'U' bolts and nuts, a through bolt shall be provided by drilling a hole in the signal pole to prevent the offset bracket from sliding down. ['U' bolts and nuts, through bolts and nuts, cement, stone jelly 20/25mm dia, river sand, Signal Collar-rings, wire PVC 3/0.75mm copper, lens-guard, all fixing bolts and nuts, lead wool, paints PVC/Nylon sleeves, enameled number plates. enameled marker boards, EWS locks, and all other miscellaneous materials for the work shall be supplied by the Contractor].	Numbers	22.00	12131.00	266882.00
16	01012500	Supply of Calling On Signal-complete as per latest specification.	Numbers	16.00	3874.00	61984.00
17	01012700	Fixing of Offset brackets using 'U' bolts and nuts, erection of Calling On Signals/ 'A' marker lights, termination of tail cables and wiring using wire PVC 3/0.75mm copper, provision of EWS lock, number plates/ marker boards and painting. The work also includes drilling suitable holes on the CLS post and provision of a through bolt with nut to prevent the Offset bracket from slipping down. (Supply of Calling On Signal/ 'A' marker light, LED aspects/holders & bulbs and Off set brackets is not covered in this item). ['U' bolts and nuts, through bolts with nut, wire PVC 3/0.75mm copper, EWS lock, Enameled number plates, wire mesh, PVC/Nylon sleeves, paints and all other miscellaneous materials shall be supplied by the contractor].	Numbers	16.00	3207.00	51312.00
18	01012800	Supply of Post type Shunt Signal - complete with hood etc., as per latest specification.	Numbers	14.00	5502.00	77028.00

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19	01012900	Fixing of Offset brackets using 'U' bolts and nuts, erection of Post type shunt Signal, termination of tail cables and wiring using wire PVC 3/0.75mm copper, provision of EWS lock and painting of one coat of red oxide and two coats of aluminium/enameled paint. The work also includes drilling suitable holes on the CLS post and provision of a through bolt with nut to prevent the Off-set bracket from slipping down. (Supply of Post type Shunt Signals, LED aspects and Off set brackets is not covered in this item). ['U' bolts and nuts, through bolts with nut, wire PVC 3/0.75mm copper, EWS lock, Enameled number plates, wire mesh, PVC/Nylon sleeves, paints and all other miscellaneous materials shall be supplied by the contractor].	Numbers	16.00	3276.00	52416.00
20	01013000	Supply of Ground type shunt signal - complete with surface base, signal pole, hood etc., as per latest specification.	Numbers	3.00	8550.00	25650.00
21	01013100	Excavation of pit and casting concrete foundation as per Drg, No.SG/SWR/053 using metallic templates, for erection of Ground type colour light Shunt Signal. [Foundation bolts and nuts, cement, river sand, stone jelly of size 20/25mm and all other miscellaneous materials for the work shall be supplied by the Contractor].	Numbers	3.00	5727.00	17181.00
22	01013200	Erection of Ground type shunt signal complete including surface base, signal pole, LED aspects/ lenses, bulbs with holders (whichever is applicable), fixing of lens guards, number plate, termination of tail cables, wiring of signal unit with PVC wire 3/0.75mm copper, provision of EWS locks and painting of one coat of red oxide and two coats of Aluminium/ enamel paint. (Supply of Ground type shunt signal complete including surface base, signal pole, LED aspects, holder, bulbs, and lenses is not covered in this item). [Wire PVC 3/0.75mm copper, lens guards, EWS locks, Enameled number plates, bolts and nuts, lead wool, paints and all other miscellaneous materials shall be supplied by the Contractor].	Numbers	3.00	4768.00	14304.00

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23	01014600	Supply and provision of Screening arrangement for Signals in RE area as per standard practice. The work comprises of providing MS angle frame and wire mesh in order to avoid close proximity of OHE wires. The work also includes provision of earthing wire using 4 SWG GI wires from the screening arrangement up to surface base as per the instructions of Railway representative at site. [All materials required for this work shall be supplied by the Contractor].	Numbers	4.00	1950.00	7800.00
24	01014800	Supply and fixing of Retro-reflective type Goods Warning Board as per practice & SEM (Angle/Rail is to be supplied by Railway).	Numbers	2.00	9560.00	19120.00
25	01014900	Supply and fixing of retro-reflective type Calling- On/STOP/BSLB/Legend boards as per practice & SEM (Angle/Rail is to be supplied by Railway).	Numbers	6.00	7856.00	47136.00
26	01015000	Supply of L angles 75x75x10 mm as per required lengths for Various Boards like Goods warning/Calling on/Axle counter & etc (1 PER UNIT= 1 PER TON)	Per Unit	1.00	82531.00	82531.00
27	01015300	Dismantling and releasing of Existing Colour light Signals complete (upto 4 aspects) with or without Route Indicators, calling on signals, shunt signals etc., carefully without any damage to the gadgets, accounting and stacking them neatly at a place as instructed by Railway representative at site. The work includes breaking the concrete foundation, closing the resultant pit and resurfacing it by ramming and levelling.	Numbers	16.00	3630.00	58080.00
28	01015400	Releasing of Existing ground type shunt signals along with surface base, signal post etc carefully without any damage, accounting and stacking them neatly at a place as instructed by Railway representative at site. The work also includes breaking and removal of concrete foundation and refilling of the resultant pit by ramming and levelling.	Numbers	4.00	2443.00	9772.00
29	01015500	Breaking of Concrete and releasing of STOP board/Warning board/ LEGEND boards along with rails, accounting and stacking them neatly at a place as instructed by Railway representative at site. Also, the resultant pits shall be resurfaced and consolidating by ramming and levelling.	Numbers	6.00	1860.00	11160.00

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30	01015700	Fixing Multi lamp route indicators - complete, termination of tail cables, wiring as per approved circuit diagram using wire PVC 3/0.75mm & 16/0.2mm copper, provision of EWS - required No's., and painting. (Supply of route indicators is not covered in this item) [Fixing bolts and nuts, EWS locks wires PVC 3/0.75mm & 16/0.2mm copper, wire mesh, PVC/Nylon sleeves, paints and all other miscellaneous materials shall be supplied by the Contractor].	Numbers	2.00	5039.00	10078.00
31	01015800	Casting concrete foundation and erection and painting of boards with LEGEND such as "Draw close if signal is at on" at the required places as per the Signalling plan. The work involves concreting of rail post to a size of 600mm x 600mm x 900mm, and fixing the board to the rail using MS clamps, bolts and nuts. (Supply of boards is not covered in this item. Rails of different lengths will be supplied by Railways and the Contractor has to cut them to the required lengths) [Stone jelly of size 20/25mm dia, river sand, cement, M.S.Flats, fixing bolts and nuts, paint and all other miscellaneous materials required for the work shall be supplied by the Contractor].	Numbers	8.00	3570.00	28560.00
32	02020100	Supply of apparatus cases Full size as per latest specification/drawing.	Numbers	40.00	24248.00	969920.00
33	02020200	Supply of apparatus cases Half size as per latest specification/ drawing.	Numbers	15.00	17320.00	259800.00
34	02020500	Supply ARA Terminal block 6 Way, 25 mm Centre, made up of PBT as per RDSO Specification No. IRS.S.75/2006 (Rev.2) or latest.	Numbers	1000.00	381.00	381000.00
35	02020600	Supply of PBT terminals 60mm centre as per RDSO Specification No. IRS.S.75/2006 (Rev.2) or latest.	Numbers	300.00	112.00	33600.00
36	02021000	Excavation of pit, casting concrete foundation and erection of Apparatus Case Full size as per Drg. No. SG/SWR/055 and fixing of 2 nos of "E" type locks, one for the front door and another for the back door, fixing of one hard wood shelf plank 37mm thick and painting the apparatus case inside and outside with one coat of red oxide and two coats of aluminium paints, along with painting of termination and equipment particulars on the doors of apparatus cases as per instructions of railway representative at site. (Supply of apparatus case is not included in this item). [Foundation bolts & nuts, 'E' type locks, cement, river sand, stone jelly of size 20/25mm, hardwood plank of 37mm thick, paints, varnish, fixing bolts & nuts and all other miscellaneous materials required for the work shall be supplied by the contractor].	Numbers	40.00	21778.00	871120.00

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37	02021100	Excavation of pit, casting concrete foundation and erection of Apparatus Case Half size as per Drg, No.SG/SWR/056, fixing one 'E' type lock for the front door and latching arrangement for the back door, and fixing of one hardwood shelf plank 37mm thick and painting the apparatus case inside and outside with one coat of red-oxide and two coats of aluminium paints. (Supply of apparatus case is not included in this item). [Foundation bolts and nuts, cement, 'E' type locks, river sand, stone jelly of size 20/25mm, 37mm hard wood planks, latching arrangements, paints, varnish, fixing bolts & nuts and all other miscellaneous materials required for the work shall be supplied by the Contractor]	Numbers	15.00	15363.00	230445.00
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38	02021600	Termination of main, tail, signalling and power cables on 25/60mm PBT terminals on phenolic sheet and internal wiring on terminal in new apparatus cases, cable termination boxes and in gate lodges excluding cable termination rack at relay room. The work includes fixing of all new cables by teakwood clamp on teakwood base plank, fixing of phenolic synthetic industrial fiber base fine waves cotton fiber board 6mm thick for terminal board to suit each apparatus case, varnishing all teakwood items, fixing of terminals/ fuse blocks on the terminal board, drilling of necessary holes, termination of cables, wiring, identification of cables using aluminium tags with letters punched neatly, as per approved circuit diagram and cable plan painting of particulars on sleeves and also on the inner side of the doors of apparatus case. After terminations are over, the side openings of apparatus case foundation shall be closed with brick work, cement plastered, the inter space filled with sand up to base level and the bottom surface shall be sealed with sealing compound. (Supply of PBT terminals and fuse blocks is not covered in this item). { cement, teakwood cable clamp 50mmX 50mm, base planks 100mm x 25mm, phenolic synthetic industrial fiber base fine weave cotton fiber sheet - 6mm thick to IS specification 2036 -1995 - type F5, PVC / Nylon sleeves , varnish, paints, bolts, nuts, and washers, non-deteriorating type of fuses of various capacities, Aluminium cable tags, sealing compound, country bricks 220mm X 100mm X 60mm, copper bus bars, brass screw, river sand, wire PVC 3/0.75mm copper and other miscellaneous materials shall be supplied by the contractor)	Numbers	3000.00	205.00	615000.00
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39	02021700	Termination of main, tail, signalling and power cables on PBT fuse block on phenolic sheet and internal wiring on fuse blocks in new apparatus cases, cable termination boxes and in gate lodges excluding cable termination rack at relay room. The work includes fixing of all new cables by teakwood clamp on teakwood base plank, fixing of phenolic synthetic industrial fiber base fine waves cotton fiber board 6mm thick for terminal board to suit each apparatus case, varnishing all teakwood items, fixing of terminals/ fuse blocks on the terminal board, drilling of necessary holes, termination of cables, wiring, identification of cables using aluminium tags with letters punched neatly, as per approved circuit diagram and cable plan painting of particulars on sleeves and also on the inner side of the doors of apparatus case. After terminations are over, the side openings of apparatus case foundation shall be closed with brick work, cement plastered, the inter space filled with sand up to base level and the bottom surface shall be sealed with sealing compound. (Supply of PBT terminals and fuse blocks is not covered in this item). (cement, teakwood cable clamp 50mmX 50mm, base planks 100mm x 25mm, phenolic synthetic industrial fiber base fine weave cotton fiber sheet - 6mm thick to IS specification 2036 -1995 - type F5, PVC / Nylon sleeves , varnish, paints, bolts, nuts, and washers, non-deteriorating type of fuses of various capacities, Aluminium cable tags, sealing compound, country bricks 220mm X 100mm X 60mm, copper bus bars, brass screw, sand, wire PVC 3/0.75mm copper and other miscellaneous materials shall be supplied by the contractor)	Numbers	300.00	250.00	75000.00
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40	02022100	Manufacture and Supply of M.S. Relay Frames of suitable size to Hold up to 4 relays /plug in type HMU as required by Railways and fixing them in apparatus cases for all types of signal control circuits, LC gate control circuit and Point control circuits, fixing of plug boards, relays, resistors and electrolytic condensers on phenolic synthetic industrial fibre base fine weave cotton fibre sheet - 6mm thick to IS specification 2036 - 1995 - Type F5, wiring and termination as per approved circuit diagram and painting the particulars. (Supply of all types of relays, plug boards, connectors, retaining clips and plug in type HMU is not covered in this item). [Wire PVC copper, 3/0.75mm and 16/0.2mm copper, phenolic synthetic industrial fibre base fine weave cotton fibre sheet - 6mm thick to IS specification 2036 - 1995 - Type F5, for fixing resistors and condensers, MS flats 25mm x 6mm brass bolts and nuts, paints, soldering materials, resistors, condensers and all other miscellaneous materials required for the work shall be supplied by the contractor].	Set	4.00	5849.00	23396.00
41	02022200	Manufacture and Supply of M.S. Relay Frames of suitable size to Hold up to 8 relays /plug in type HMU as required by Railways and fixing them in apparatus cases for all types of signal control circuits, LC gate control circuit and Point control circuits, fixing of plug boards, relays, resistors and electrolytic condensers on phenolic synthetic industrial fibre base fine weave cotton fibre sheet - 6mm thick to IS specification 2036-1995 - Type F5, wiring and termination as per approved circuit diagram and painting the particulars. (Supply of all types of relays, plug boards, connectors, retaining clips and plug in type HMU is not covered in this item). [Wire PVC copper, 3/0.75mm and 16/0.2mm copper, phenolic synthetic industrial fibre base fine weave cotton fibre sheet - 6mm thick to IS specification 2036 - 1995 - Type F5, for fixing resistors and condensers, MS flats 25mm x 6mm brass bolts and nuts, paints, soldering materials, resistors, condensers and all other miscellaneous materials required for the work shall be supplied by the contractor].	Set	8.00	10370.00	82960.00

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42	02022300	Manufacture and Supply of M.S. Relay Frames of suitable size to Hold up to 12 relays /plug in type HMU as required by Railways and fixing them in apparatus cases for all types of signal control circuits, LC gate control circuit and Point control circuits, fixing of plug boards, relays, resistors and electrolytic condensers on phenolic synthetic industrial fibre base fine weave cotton fibre sheet - 6mm thick to IS specification 2036 - 1995 - Type F5, wiring and termination as per approved circuit diagram and painting the particulars. (Supply of all types of relays, plug boards, connectors, retaining clips and plug in type HMU is not covered in this item). [Wire PVC copper, 3/0.75mm and 16/0.2mm copper, phenolic synthetic industrial fibre base fine weave cotton fibre sheet - 6mm thick to IS specification 2036 - 1995 - Type F5, for fixing resistors and condensers, MS flats 25mm x 6mm brass bolts and nuts, paints, soldering materials, resistors, condensers and all other miscellaneous materials required for the work shall be supplied by the contractor].	Set	16.00	12450.00	199200.00
43	02022800	Strengthening of foundations of Signals, Full/Half location boxes, by carrying out the earth work around the foundation, ramming of the earth, caring out masonry work from bottom of earth work using country stones and cement masonry to prevent the earth from slipping down the bank.	Numbers	40.00	5708.00	228320.00
44	02023100	Releasing of existing apparatus cases (Full/ Half/ Quartersize) without damage after releasing the shelf planks, Terminal blocks, Fuse Blocks, Terminal Boards, Relays of all types EKTs, Secondary Cells, power equipment's, 'E' type locks, etc., and breaking the concrete foundation. After releasing, the resultant pits are to be closed and consolidated by ramming and levelling. The released materials shall be accounted and stacked at a place as instructed by Railway representative at site.	Numbers	25.00	3434.00	85850.00
45	02023200	Supply of Fencing for Location box GKP.	Set	30.00	43211.00	1296330.00

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46	02023300	Fencing for location box duly providing foundation (a pit of size 400mm x 400mm x 1000mm is to be dig and cement concrete foundation in the pit in the ratio 1:3:6 to be casted) and fixing the frames/doors and E- type lock to the fencing with supplied material. The rail post/angular is to be erected up right in the foundation. All materials are to be arranged and used by the contractor (Rail post / angular /frames /Fencing/ E type locks will be supplied by railway). Cutting of rail post / angular / fencing to the required length, transportation to the site is to be done by the contractor.	Set	30.00	5839.00	175170.00
47	02023400	Filling earth around location boxes/signal foundations for a width of 0.5m on all sides, up to a level 150mm below the foundation top. This work includes consolidation of earth by watering and ramming. The earth shall be taken from Railway premises as instructed by Railway representative at site.	Numbers	30.00	196.00	5880.00
48	02023500	Provision of fencing arrangements for the location boxes. The work involves erecting posts using GI pipes 25mm dia - 3m long near the location boxes at an interval of 2m and providing fencing using Barbed steel wires around the location boxes. The GI pipes shall be buried to a depth of 1m. The barbed wire shall be providing using 14 SWG GI wire (2 wires) barbed at 6" interval. The wires shall be provided from ground level to the top of post at an interval of 6". The work also includes erection of two rail posts, fabrication of a gate using MS angles 50x50x5mm and MS flats 50mmx3mm and fixing it on the rails and provision of locking facility as per the instructions of Railway representative at site. (Rails of different lengths will be supplied by Railways. The Contractor has to cut the rails to the required lengths as per the requirement). [GI pipes 25mm thick, barbed steel wire, MS angles 50mmx50mmx5mm and MS flats 50mmx5mm for fabrication of gate, and all other miscellaneous materials required for the work shall be supplied by the Contractor].	Numbers	30.00	1045.00	31350.00
49	03030100	Supply of Electric Point Machine - IRS type 220 mm throw with Lock and detector Slides, Cable termination box and clamp lock arrangement with Ground connection, Insulation's etc. for thick web switch ,confirming to RDSO Specification no IRS:S24-2025 Revision 3.0 or latest.	Numbers	16.00	159901.00	2558416.00

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50	03030200	Supply of Insulation Sets for Ground Connection, Made of Nylon for 220mm throw Point Machine as per latest specification No. IRS.S.40/84 Amdt No.01 or latest. One Set consisting of :- a) Insulating Washer Drg. No.-S-8640 = 12 Nos. b) Insulating Washer Drg. No.- S-8640/1=04 Nos. c) Insulating Washer Drg. No.-S-8640/2=02 Nos. d) Insulating Bush Drg. No.-S-23199=06 Nos. e) Insulating Bush D7Drg. No.-S-3463=01 No. f) Insulating Bush Drg. No.-S22179=02 Nos. g) Insulating Bush Drg. No.-S-8912=02 Nos. h) Insulating Plate Drg. No.-S-3404=02 Nos. i) Insulating Bush Drg. No.-S-8813 = 04 Nos.	Set	16.00	569.00	9104.00
51	03030400	Supply of Electric Point Machine - IRS type 143 mm throw with Lock and detector Slides, Cable termination box with suitable ground connections, Insulation's etc. confirming to RDSO Specification no IRS:S24-2025 Revision 3.0 or latest	Numbers	2.00	107575.00	215150.00
52	03030600	Supply of insulation's for 'D' clamp switch extension bracket to suit to universal point machine as per RDSO Drawing supplied by the Railways. (One set consists of 'D' clamp insulation - 2 No. Nylon insulation bushes 4 No., Nylon insulation washers - 8 No.)	Numbers	2.00	762.00	1524.00
53	03030700	Installation of point machine - IRS type 143 mm and connecting all ground connections including wiring and termination in point machine and inter connections between point machine and CT box through PVC hose pipe with 3/0.75mm and 7/1.40mm copper wire and painting. This work includes provision of insulation to stretcher bars, throw bar lug and "D" bracket wherever required, cutting of notches on the point machines covers to suit crank handle configuration. (Combined type point machine with ground connection, uninsulated stretcher bar, throw bar lug and 'D' brackets will be supplied by Railways. [All types of insulations connected to point work, all type of bolts and nuts, washers spring/flat wire PVC 7/1.4mm copper, PVC hope pipe, paints, PVC/nylon sleeves and all other miscellaneous materials required for the work shall be supplied by the Contractor].	Numbers	2.00	18020.00	36040.00

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54	03030800	Installation, termination of cable in termination box, wiring, testing and commissioning of IRS High Thrust point Machine 220mm.This includes fixing of point machine on MS plate fixed on sleepers complete with fixing of anti-theft covers, MS termination boxes, ground connections, required insulation, crank handle ward (wherever required) etc. This also include necessary adjustment and smithy work, drilling of holes on tongue rails, supply of all miscellaneous material such as flat, angle, bolt, nuts, pins etc.	Numbers	16.00	24812.00	396992.00
55	03030900	Dismantling and releasing of existing Point machines (all types) including ground connections and other accessories available complete without any damage to the gadgets, accounting and stacking them neatly at a place as instructed by Railway representative at site.	Numbers	6.00	2833.00	16998.00
56	03031100	Excavation of pit, erection of Cable termination boxes on rails/L-angle and concreting as per RDSO Drawing , drilling of suitable holes in the box, fixing of 2 Nos. of GI pipes 32mm dia and 300mmlong at the bottom with clamp nuts - 12 mm thick, one at the inner side and another at the outer side for each pipe for cable entry and one GI pipe 150mm long 32mm dia for drawal of jumper wires for Point machines etc., fixing of hardwood plank 37mm thick on the bottom, provision of one EWS lock, and painting the boxes inside and outside with one coat of red-oxide and two coats of aluminium paints. (Supply of CT boxes is not covered in this item. Rails of different length shall be supplied by Railways. The contractor shall cut lengthy rails wherever required.) [Cement, iver sand, stone jelly of size20/25mm, paint, varnish, GI Pipes 32mm dia - 300mm long - 2Nos and 150mm long - 1 No., clamp nuts - 12mm thick - 2 Nos. for each pipe, fixing bolts and nuts with washers, EWS locks, paints and all other miscellaneous materials shall be supplied by the Contractor].	Numbers	16.00	6571.00	105136.00
57	03031200	Breaking of concrete and releasing the Existing cable termination boxes, after releasing the base plank, Terminal blocks, Fuse Blocks, Terminal Boards, cut rails, pipes, etc., closing the resultant pits and consolidating it by ramming and levelling. The released materials shall be accounted and stacked neatly at a place as instructed by Railway representative at site.	Numbers	6.00	2166.00	12996.00

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58	04041300	Releasing of existing TLJB boxes with stumps and terminals after releasing all the bond wires. The released materials shall be accounted and stacked neatly at a place as instructed by Railway representative at site.	Numbers	40.00	157.00	6280.00
59	05050100	Supply, Transportation, of Electrically operated Lifting Barrier set with Hand generator with operating voltage of 24VDC. Each set consisting of 2 Nos. of Lifting Barrier Pedestals, each with 8 contact circuit controllers with top roller type Limit Switches (as per Design given in specification & approved by RDSO) Hand Crank, Electric Motor 24V DC. 2 GI sheet Booms of 32 ft length (4 section of 8 Ft long each) with new Octagonal shape as per RDSO drg. No. RDSO/S 11600. - Version 2.0 or latest, without fringes, with 2 stop boards in Trilingual i.e Hindi, English & Regional language and MS Counter weights and 02 nos. of boom supports with Motorized / Solenoid boom locking along with 01 no. of hand Generator cum Control panel to operate 2 barriers of a set with 1 selector switch, 3 buttons and 5 indication lamps, contacts, MCB's and relays.	Set	1.00	367350.00	367350.00
60	05050400	Supply of GI Octagonal Boom 32 feet long as per RDSO Drawing No, RDSO/S 11600 in 4 section of 8 feet each.	Numbers	1.00	12275.00	12275.00
61	05050500	Casting concrete foundation of size 900mmX 900mmX900mm for pedestal, 400mmX400mmX 600mm for meeting post, fixing of lifting barrier boom, contact makers, termination of cables, wiring and painting as per the instructions of Railway representative at site. (Supply of pedestals, meeting posts, contact maker, electric lifting barriers, rail posts, cranks and 'A' type foundation is not covered in this item). [Concreting materials, bolts and nuts, wire PVC 3/0.75mm copper and all other miscellaneous materials required for the work shall be supplied by the Contractor]. (Unit = Per Boom)	Per Unit	2.00	22337.00	44674.00
62	05050700	Supply of Electric Key Transmitter - Rotary type of required ward Nos. with keys, as per specification/ No. IRS S.21/2001 Rev.1.0 or latest.	Numbers	6.00	9315.00	55890.00

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63	05050800	Supply and Fixing of Normal/Crank Handle Box/Emergency Key Box at Interlocked LC Gates, made of Teak wood with Glass fronted door as per specification. Polishing on all exposed surface and for with EKT inside the box. Micro push switch of suitable make with 2NO+2NC contacts and veeder counter non-reset type and wire them as per the approved circuit diagram. The box should have hinges and pad locking arrangements with one Lock with duplicate keys and key chain with label. (All materials except EKT are to be supplied by the contractors.)	Numbers	2.00	7694.00	15388.00
64	05050900	Fixing of EKT instrument with (or) without crank handle or on suitable fixtures at station/apparatus case, provision of economiser push switch with locking facility, wiring with wire PVC 16/0.2mm copper, provision of teakwood terminal box covered with decolum along with locking facility and painting. (Supply of electric key transmitter and crank handles is not covered in this item). [wire PVC 16/0.2mm copper, wire wound resistance, decolum covered terminal box with locking facility by using 25mm thick teakwood, bolts and nuts, paints, push switches, padlocks and other miscellaneous materials required for this work shall be supplied by the contractor].	Numbers	4.00	5522.00	22088.00
65	05051000	Supply of Electronic LC gate Telephone system with Voice Logger facility as per RDSO Spec No.RDSO/SPN/TC/51/2021 (Rev 1.0) or latest. consist of one master Telephone, 06 slave Telephone with modified surge protection & Line connecting unit and 24 Volt DC power supply unit with MF battery compatible with existing electronic LC Gate Telephone system.	Set	1.00	79611.00	79611.00
66	05051400	Supply of Digital Voice Annunciation Unit consist of 2 nos Horn Speakers, 2 Nos of Hooters and Amplifier with Trilingual i.e Hindi, English & Regional language voice announcement	Set	1.00	15023.00	15023.00
67	05051500	Fixing and wiring of Two Nos. of Electronic Gate Warning equipment for each level crossing gate, one on each road warning signal, amplifier in the apparatus case with wire PVC 3/0.75mm and 16/0.2mm copper, and painting. (Electronic Gate Warning Equipment and amplifier will be supplied by Railways). [All wiring, fixing and painting materials shall be supplied by Contractor].	Set	1.00	4877.00	4877.00

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68	05052400	Releasing of all the S & T gadgets at LC gates like SM slide instruments, illuminated diagram board, block counter, termination box, telephones, emergency key box, dismantling of ground lever frame along with all connected lever locks, 'E' type locks, HP locks, breaking and removal of concrete foundation, lock rods with rod roller trestles, complete assembly, cranks, compensators, 'A' type concrete foundation on the rod run, transmission wires single wire/double wire accounting and stocking them neatly at a place as instructed by Railway representative at site. After releasing any holes on the walls/ floor are to be filled with cement mortar and plastered.	Set	1.00	10665.00	10665.00
69	06060100	Excavation of cable trench in all kinds of soil except hard rocky areas including clearing of roots of trees, rocks, bushes etc. to a depth of 1.0 Mtrs and to a width of 0.3 Mtrs. (Laying of cables is not included in this item).	Metre	4000.00	76.00	304000.00
70	06060400	Excavation of cable trench in all kinds of soil except hard rocky areas including clearing of roots of trees, rocks, bushes etc. to a depth of 1.0 Mtrs and to a width of 0.5 Mtrs. (Laying of cables is not included in this item).	Metre	2500.00	94.00	235000.00
71	06060500	Supply and Placing of Trunking and Capping (RCC Duct) of size 700mm Length X 500mm Width X 260mm height & Suitable cover plate of 40mm thickness as per Drg.No.SDO/Cable laying/ 007 (Annexure-10) as detailed in document No. RDSO/SI/G/2010 Ver.1.1 or latest on 'Guidelines on signalling cable laying'.	Numbers	2500.00	1467.00	3667500.00
72	06060600	Supply and Placing of Polyolefin Cable channel of size, Width 240/340 mm, Height 155/230 internal/external, length 1 m produced of polyolefin with Fire protection class k-1 in accordance with DIN-53438 Part II for laying Signalling/Telecom cables, channel attachable to each other with male-female swallow tail connectors and having suitable detachable cover	Metre	200.00	2521.00	504200.00
73	06060700	Supply and Laying of PVC Warning Tape colour Orange, width of 250mm (10") by printing with black letters 'Indian Railway Signal/Telecom/OF Cable' on both sides	Kilometre	6.50	45908.00	298402.00
74	06060800	Refilling of cable trench 1m depth by 0.3m width throughout, with earth after laying of cables, and consolidating the trench by ramming and levelling	Metre	4000.00	18.00	72000.00

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75	06060900	Refilling of cable trench 1m depth by 0.5m width throughout, with earth after laying of cables, and consolidating the trench by ramming and levelling	Metre	2500.00	23.00	57500.00
76	06061000	Supply of High-Density Polyethylene Pipes (HDPE) of 110 mm Outer Dia, 10 mm Wall Thickness, along with one coupler for every 6 Meters as per latest specification No. IS 4984: 2016 with latest amendments and Material Grade: PE 80.	Metre	500.00	763.00	381500.00
77	06061100	Laying of HDPE Pipe 110 mm outer Dia, 10mm thickness along with collars in trenches at places of platform cutting etc and wherever required as per the instruction of site engineer.	Metre	100.00	69.00	6900.00
78	06061200	Digging of cable trench to a depth of not less than 30CMs in rocky terrain, concreting the trench with 150mm thick concrete with 1 cement, 2 sand, 4 grade stone 20mm nominal size. (All the materials are to be supplied by the contractor).	Metre	200.00	230.00	46000.00
79	06061300	Concreting of cable laid in the trench or GI pipe/DWC/HDPE pipe in which cable is already laid to a size of 300x300mm with 1:3:6 mortar. (All the materials required for the work should be supplied by the contractor).	RMT	200.00	624.00	124800.00
80	06061400	Laying of Signaling/Power/Telecommunication cables as per cable plan in cable trenches, masonry ducts, RCC Pipes, DWC pipes, GI Pipes etc. (Supply of cables is not included in this item).	Metre	90000.00	21.00	1890000.00
81	06061500	Supply and Fixing of PVC casing and capping/PVC pipe of minimum 25 mm size or higher as per requirement at site on the wall/floor etc., using bends, coupler and T joints and flexible pipe wherever necessary with fixture in the OFC room from equipment rack to common termination and from OFC room to SM room/ Reservation office / Data logger/FOIS room etc. (All required material for fixing to be arranged by the contractor)	Metre	500.00	66.00	33000.00
82	06061600	Supply of GI pipes - 50mm dia - 3.65mm thick as per latest specification.	Metre	100.00	693.00	69300.00
83	06061700	Supply of GI pipes - 100mm dia- 4.5mm thick as per latest specification.	Metre	100.00	1652.00	165200.00
84	06061800	Supply of GI pipes - 150mm dia- 4.8mm thick as per latest specification.	Metre	100.00	2226.00	222600.00

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85	06062000	Supply and laying of Split DWC pipe of 120/103 mm dia, 2 meter long in already dug cable trenches. The unit of RMT means two split pipes of 1 Mtr each Material shall be supplied as per latest specification RDSO/SPN/204/2011 Ver.1.1 or latest.	RMT	2000.00	346.00	692000.00
86	06062200	Provision of GI pipes (50/100/150mm dia) for cable laying with offset at both ends and with couplings over RCC Bridges/ Drainage/ Culverts with concrete masonry supports of size 300mm x 300 mm x 300 mm at an interval of 2m. The ends of the pipes shall be closed with brick masonry abutments work so that no cable is exposed, the work shall be carried out as per the instructions of Railway representative at site. (Supply of GI pipes with couplings and laying of cables is not included in this item). [Stone jelly of size 20/25mm, bricks, sand, cement and all other miscellaneous materials required for the work shall be supplied by the Contractor].	Metre	100.00	384.00	38400.00
87	06062300	Provision of GI pipes- (50/100/150mm dia) for cable laying with offset at both ends and with couplings over Girder bridges by fixing on suitable MS Clamps at an interval of 2 Mtrs. The ends of the pipes shall be closed with brick masonry abutments work so that no cable is exposed, The work shall be carried out as per the instructions of Railway representative at site. (Supply of GI pipes with couplings and laying of cables is not included in this item). [MS angles, flats, bolts and nuts for manufacturing fixing clamps, bricks, sand, cement and all other miscellaneous required for the work shall be supplied by the Contractor].	Metre	100.00	430.00	43000.00
88	06062400	Provision of GI pipes (50/100/150mm dia) for cable laying in Hard rocky area with off sets at both ends duly supported by concrete blocks of size 300mm x 300 mm x 300 mm at an interval of 2m. The ends of the pipes shall be closed with brick masonry abutments work so that no cable is exposed, The work shall be carried out as per the instructions of Railway representative at site. (Supply of GI pipes with couplings and laying of cables is not included in this item). [Stone jelly of size 20/25mm, bricks, sand, cement and all other miscellaneous materials required for the work shall be supplied by the Contractor].	Metre	100.00	335.00	33500.00

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89	06062500	Supply of Permanently Lubricated High Density Polyethylene Duct (PLB-HDPE), 40/33 mm Dia, along with End Cap, End Plug, Cable Sealing Plug and Couplers, as per RDSO/SPN/TC/45/2013 Rev.2 with Amd 3.0 or latest	Kilometre	6.00	97538.00	585228.00
90	06062600	Laying of PLB HDPE Duct, 40/33 mm Dia, in the trenches and in the protective works already provided including in HDD portion and supply pulling of Nylone rope through it at different places as per direction of engineer incharge or site engineer	Kilometre	6.00	14607.00	87642.00
91	06062700	Duct Integrity test for PLB HDPE Duct, 40/33 mm Dia, as per latest specification.	Kilometre	6.00	2306.00	13836.00
92	06062800	Blowing of OFC Cable in already laid PLB HDPE Duct, 40/33mm Dia, by using Blowing machine, providing the sufficient loops in loop/joint chambers and other associated works.	Kilometre	6.00	17232.00	103392.00
93	06062900	Horizontal direction drilling/boring without damage of surface road/track using Auger Machine (HDD machine). The bore shall be upto 200 mm dia& shall be done at the depth of minimum 1200 mm from the ground level. The ground level shall be considered ignoring the bank height of the bank of the road. The length of the bore shall be minimum 4 Mtrs long. This includes insertion of different dia DWC-HDPE pipe/GI pipes coupling etc. as per direction of Engineer Incharge. Note:- Pipe Supply is not covered under this item. Contactor shall provide all material required for boring and adequate nos. of labours for proper laying of cables into the bore. Cable shall be laid cautiously so that it should not get damage due to rough handling & pressure on cable.	Metre	500.00	1531.00	765500.00
94	06063000	Excavation of trench to a depth of 1 Mtr. for track crossing of cables, laying of DWC/HDPE/RCC pipes with collar/coupling, refilling of trench by ramming and consolidating it as per the instructions of Railway representative at site. During excavation of trench, it has to be ensured that the excavated soil does not mix with the ballast available. The depth of 1m trench shall be from the bottom of sleepers for track crossings. Laying of cables is not included in this item. (Supply of DWC/HDPE/RCC pipes with couplers/ collars is not included in this item).	Metre	100.00	459.00	45900.00

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95	06063100	Excavation of trench to a depth of 1 Mtr. for road crossing of cables, laying of DWC/HDPE/RCC pipes with collar/ coupling, refilling of trench by ramming and consolidating it and resurfacing it to the original position. Laying of cables is not included in this item. (Supply of DWC/HDPE/RCC pipes with couplers/ collars is not included in this item).	Metre	100.00	597.00	59700.00
96	06063200	Provision of 2 Machine cut grooves in parallel at a separation of 8 cms each to a depth of 150 mm and width will be as per site requirement in the platform surfaced/tiled floor for laying cable	Metre	100.00	849.00	84900.00
97	06063400	Supply of RCC Cable Markers as per DRG.No.SG/SWR/067 or latest guidelines. The lettering on the Cable marker shall be "SIG" / "TELE" / "OFC" as per the instructions of Railway representative at site.	Numbers	200.00	366.00	73200.00
98	06063500	Digging of pit to a depth of 800mm of size 300mmX300mm, casting of Concrete foundation of size 300mmX500mmX300mm and Placing of RCC cable markers on top of the foundation and refilling the pit and consolidating it by ramming. The cable markers shall be provided at an interval of 20 Mtrs. within station limits and 50 Mtrs. outside station limits throughout the cable route, diversions and also at every track/road crossing.	Numbers	200.00	267.00	53400.00
99	06063600	Excavation of cable coil pit to a size of 1.5mx1.5m and depth as instructed by Railway representative at site, for coiling the cables in rear of relay rooms/ AFTC huts, apparatus cases etc. The work includes coiling the underground cables, and placing closely one layer of country bricks of size approx. 220mm x 100mm x 60mm breadth wise above the cables to cover all the cables in the cable pit, closing and consolidating the pit by ramming and levelling. [Country bricks of size 220mmx100mmx60mm (approximately) shall be supplied by the Contractor].	cum	50.00	1131.00	56550.00
100	06063800	Excavation of Cross trench to a depth of 1M or as per site requirement, for identifying the existing cable path without damaging the working cables.	RMT	100.00	205.00	20500.00
101	06064000	Releasing/shifting of Existing/Already laid Signalling/Telecom cables to facilitate engineering construction works.	Metre	500.00	16.00	8000.00
102	07071000	Supply of power cable copper PVC insulated flexible 3-core multi strand 2.5 sqmm as per latest specification No.IS:694:1990	Metre	1000.00	100.00	100000.00

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103	07071900	Supply of PVC insulated wire multi-strand copper conductor 10 Sq.mm (size of 140/0.3) Each coil length of 100 mts as per RDSO specification IRS.S 76/89 or latest.	Numbers	2.00	15116.00	30232.00
104	07072200	Supply of PVC insulated wire copper conductor 16/02mm to ATC IS:694 to RDSO specification no.IRS.S76/89 Amendment.3 or latest. Each coil of 100 mts length. (Per Unit=Coil)	Per Unit	100.00	954.00	95400.00
105	07072300	Supply of PVC insulated wire copper conductor 28/03 mm Each coil length of 100 mts as per RDSO spec No.IRS.S 76/89.	Numbers	30.00	2305.00	69150.00
106	07072600	Supply of 10 pair annealed tinned copper conductor PVC insulated colour coded twisted pair switch board telephone cables PVC sheathed with nylon rip size 0.5 mm of reputed make.	Metre	100.00	76.00	7600.00
107	07072900	Supply of 3 pair annealed tinned copper conductor PVC insulated colour coded twisted pair switch board telephone cables PVC sheathed with nylon rip size 0.5 mm Each coil length of 100 mts of reputed make.	Metre	100.00	18.00	1800.00
108	07073200	Supply of 60 core 0.6mm indoor hook up cable for data logger wiring: as per IRS Specification No IRS: S-76/89 or latest.	Metre	500.00	257.00	128500.00
109	07073700	Supply of STP CAT 6 cable as per latest specification.	Metre	1220.00	38.00	46360.00
110	07073800	Supply of Twin Core Multi Strands Screened Cable, cotton braided or reputed make, suitable for Speakers	Metre	1000.00	37.00	37000.00
111	08080300	Supply of Cable termination racks size 880mm x 2 Meters made out of 50mmx50mmx6mm thick MS angle with stainless steel nuts and bolts for fixing of the rack with POWDER COATED and drilling suitable holes to suit hylam sheet and relay frames complete as per standard practice with tripod bases and reel insulators (for K rack, P rack and power rack) and with cable ladder of width 400mm and length of 2 Mtr. The thickness of angle to be 5mm. two angles of 40mmX40mmX5mm to be supplied at both ends and supporting flats of 25mm X5mm.	Numbers	4.00	7788.00	31152.00
112	08080400	Erection of CT Rack with scaffolding suitably concreting tri-pod bases and reel insulators with "J" bolts and nuts. Tripod and other supporting are to be painted in 2 coats with enamel.	Numbers	4.00	5115.00	20460.00
113	08080500	Supply of 50-way WAGO Terminal box for terminating the conductor size of 0.2 to 2.5 sq mm as per RDSO Specification No/SPN/189/2004 Ver.3 which consists as per following, 2 conductor disconnecting terminal unfused type, end plate and din rail.	Numbers	2.00	9688.00	19376.00

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114	08080600	Supply and provision of Rubber mat of not less than 6mm thick and with an insulation to with stand 650V AC, on the floor of relay room etc at places as indicated by railway representative at site.	Square Foot	150.00	170.00	25500.00
115	08080700	Supply and installation of teakwood glass fronted box of size 300mm x 600mm x 75mm with hooks to keep various keys with description engraved on the tags. [TW Glass fronted box of size 300mmx600mmx 75mm with built in lock, hooks, engraved tags and all other miscellaneous materials required for the work shall be supplied by the Contractor].	Numbers	2.00	8833.00	17666.00
116	08080800	Termination of Main, Tail, Signalling and power cables and internal wiring on terminal/ fuse blocks in cable termination Rack at relay room. The work includes fixing of all new cables by teakwood clamp on teakwood base plank, fixing of Hylam sheet 10 mm thick for terminal board, varnishing all teakwood items, fixing of terminals/ fuse blocks on the terminal board, drilling of necessary holes, termination of cables, wiring, identification of cables using aluminium tags with letters punched neatly, as per approved circuit diagram and cable plan, painting of particulars on sleeves. After terminations are over, cable entry at the bottom shall be closed with, cement plastered, the inter-space filled with sand up to base level and the bottom surface shall be sealed with sealing compound. Cable armour to be soldered to earth. (Supply of cable termination racks is not included in this item). [All bolts and nuts with washers, Hylam Sheet 10 mm Thick, cement, sand, stone jelly, Teak wood base, paints and all other miscellaneous materials required for the work shall be supplied by Contractor	Numbers	1800.00	202.00	363600.00

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117	08081000	Fixing of Additional plug boards, 50 ways terminal blocks and wiring of additional relays as per the approved circuit diagram using wire PVC 16/0.2mm copper. Additional wire supporting tray with cover made of PVC shall be provided wherever required. Alterations to Relay particulars shall be incorporated in the relay Index board. (Supply of relays, plug boards, connectors and retaining clips and 50 way terminal boards is not covered in this item).[Wire PVC 16/0.2mm copper, 2BA terminals, teakwood plank 25mm thick for fixing resistors and condensers, soldering materials, bunching thread, wire wound resistance, condenser, wire supporting tray with cover of suitable size made of PVC, paint, varnish and all other miscellaneous materials required for the work shall be supplied by the Contractor].	Per Relay	50.00	725.00	36250.00
118	08081400	Carrying out Alterations to the existing relays in the relay racks/apparatus cases as per the approved circuit diagram using wire PVC 16/0.2mm copper. The work includes painting alterations and releasing the unwanted wires carefully without disturbing the existing wiring. [Wire PVC 16/0.2mm copper, soldering materials, bunching threads, condensers, resistances and teakwood plank for fixing them and all other miscellaneous materials required for the work shall be supplied by the Contractor].	Per Relay	30.00	720.00	21600.00
119	08081500	Releasing of Existing relay racks/ Cable termination racks along with all the terminals, fuse blocks, relays, with jacks, holding clips etc., 50-way boards, terminals, connecting wires, cables etc., carefully without causing any damage, accounting and stacking them neatly at a place as instructed by Railway representative at site. After releasing, the floor shall be levelled and cement plastered.	Rack	10.00	2097.00	20970.00
120	08081600	Releasing of Existing SM's control panel including base plank, and other gadgets connected very carefully without causing any damage to the panel, accounting and stacking them neatly at a place as instructed by Railway representative at site. The resultant pit in the flooring shall be removed of all cable bits, levelled and cement plastered.	Set	1.00	5340.00	5340.00

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121	08081700	Carefully opening the bunching inside the relay room as instructed, removing the relay pin along with the wire, neatly and carefully removing the wire duly testing with buzzer, re-bunching & placing with standard-grade nylon lacing twine and PVC dotted with buttons where required.	Numbers	50.00	17.00	850.00
122	08082100	Arranging of sufficient staff by contractor and giving test to the railway incharge in Making a simulation test board plywood 3mm approximately size 1.5x1meter. Painted according to layout, fixing 1 way / 2-way switches in approximate position for track circuit, point setting lamp holders and lamps. Carrying out testing using simulation board after energising of internal circuit Commissioning of indoor and outdoor equipment as laid down in technical specification (Per Unit =Per Road)	Per Unit	5.00	4253.00	21265.00
123	08082300	Supply and fixing of Flex printed Sun boards of various sizes of various drawings of Power diagram, Relay index chart, Station Rule Diagram, FTOT Particulars, yard layout diagram board etc, with different colours as per instructions of Site In-Charge/Railway Representative.	Square Foot	150.00	501.00	75150.00
124	08082800	Supply and Installation of Pre-wired Crank Handle Cum Key Lock Relay Box (of MS Sheet) along with LEDs, with approved type push buttons, Wago or similar Disconnecting type Terminal Blocks including DIN rail etc., as per approved drawing. Installation, fixing and wiring of boxes for Key Lock Relays to be carried by Contractor's wiring and fixing material. The work shall be carried as per the instructions of site engineer.	Numbers	1.00	40476.00	40476.00
125	08083000	Supply of Wago terminal of 2 conductor disconnecting terminal block for 2.5 sqmm wire termination make: wago/elmex or similar with accessories & taxes.	Numbers	100.00	85.00	8500.00

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126	09090100	Supply of Hot Standby Electronic Interlocking System (Centralized/Distributed) excluding Panel Processor (Hot Standby) with Signalling functions up to 125 functions as per function table enclosed along with 10% spares for the cards/modules/PCB, connectors/couplers, fuses, all relays, crimp contact, convertors etc. used, tools, manuals and Instruments as per RDSO specification RDSO/SPN /192/2019 ver. 2.0 or RDSO/SPN/ 203/2011 ver. 1.0 or latest. This includes supply of Maintenance VDU 55" 4K Resolution and Maintenance PC (embedded PC) and all types of indoor relays along with point contactor relays (QBCA1) required for points/other indoor purposes. Note: Payment will be made for only vital bit as per function table attached by Railways, no payment will be made for non-Vital bits such as Counter bits, SM key Bits, Read back bits and any potential free contact bits of DC-DC converter or Modem of EI.	Set	1.00	10036207.00	10036207.00
127	09090200	Incremental rate for vital signalling functions in EI SYSTEM over and above 125 functions under item No 09_001 along with spares for the cards/modules/PCB, connectors/couplers, fuses, all relays, crimp contact, convertors etc. to the extent of 10% of item no. 090100& 090200.	Per function	170.00	91297.00	15520490.00
128	09090300	Supply of Electronic Interlocking Items for end location (Goomty) for station/IBH/Auto Hut for distributed Architecture in connection with item No. 1 as per Function table enclosed along with 5% Spares, tools, manuals & instruments as per technical specification. (Per Unit= Per Goomty/IBH/ Auto Hut)	Per Goomty/IBH/ Auto Hut	1.00	823789.00	823789.00
129	09090400	Designing and drawing of EI application logic and interface circuit as per the SIP & Table of Control supplied by railway for the station. This includes internal FAT testing prior to submission for approval of circuits.	Per Unit	2.00	369394.00	738788.00
130	09090500	Installation, wiring, testing and commissioning of EI equipments supplied for the station, duly carrying out the required FAT & SAT, including transportation from consignee depot to site at station. This also includes splicing & termination of OFC cable supplied by railways for communication equipment of EI.	Numbers	1.00	883460.00	883460.00

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131	09090700	Supply of commercial grade operator VDU of size 55" 4K resolution, with backlit LED, with HDMI/DVI port, Inbuilt Speaker, required HDMI/DVI cables for connectivity and other miscellaneous item required for installation.	Numbers	2.00	366949.00	733898.00
132	09090800	Supply of fan less embedded industrial grade computer (Similar to Moxa V2406A or better) with all accessories such as key board, mouse, antivirus etc. of industrial grade as per approved Specification as recommended by RDSO (TAN No. STS/TAN/3007 Version 1.0 or latest).	Numbers	2.00	358408.00	716816.00
133	09091100	Supply, installation and commissioning of Class-A protection with lighting event counter as per RDSO spec No. RDSO/SPN/197/2016 Ver1.0 and as per details given in technical specification. This shall include all the misc. material required for installation of the class A lightening arrestor which shall be installed at a height more than height of VHF antenna.	Numbers	2.00	465458.00	930916.00
134	09091200	Supply, fabrication, installation and fixing of panel operator consol with arrangement to fix 55" VDU's - Reset boxes, and other S&T gadgets. This shall be made of not less than 18mm thick plywood or better materials with storage facility of approved colours with contractors' materials, lead, lift and manpower as per the instructions of engineer in charge and as per the enclosed drawing.	Numbers	1.00	384233.00	384233.00
135	09091300	Training of Railway Personnel in installation, commissioning, testing, trouble shooting and in diagnosing faults using diagnostic tools/flow charts including supply of necessary documents	Man-Days	10.00	1233.00	12330.00
136	09091900	Supply of Power supply arrangement for Operator/Maintenance VDU and Embedded PC. This consists of a) 110V DC/110V AC, 500VA Inverter - 2 Nos b) 110V DC/24V DC, 10A - 2 Nos. Make: Similar to Gallant, Wago, Phoenix or better.	Per Unit	2.00	206013.00	412026.00
137	10100100	Supply of NON-AC Immunized Relays, Plug-In-Type, style QN1, 8F/8B Contacts, DC Neutral line Relay, working voltage 24V DC, metal to carbon, with plug board, retaining clip and connectors as per RDSO Specification No BRS:930, IRS: S: 34 & IRS: S: 23, STR: SIQ 0420 Ver.1 or latest. The Interlocking code for this relay shall be ABCDF	Numbers	100.00	3818.00	381800.00

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138	10100200	Supply of AC Immunized Relays, Plug-In-Type style QNA1, 8F/8B Contact, DC Neutral line Relay, working voltage 24V DC, metal to carbon with plug board, retaining clip and connectors as per RDSO Specification No BRS:931A, IRS: S@58<44@ IRS:S:34 & IRS:S:23, STR: SIQ 0420 Ver.1 or latest. The Interlocking code for this relay shall be ABDGH	Numbers	100.00	5209.00	520900.00
139	10100300	Supply of Relay, Plug-in Type, QL1, 11F/4B contacts, magnetically latched, neutral line Relay, working voltage 24V DC, Metal to Carbon with Plug board, retaining clips and connectors as per RDSO Specification No. BRS 935/A, IRS:S 34-68 Amdt. 6, IRS:S 23-88 Amdt.1 as applicable. The interlocking code for this unit shall be ABDEG	Numbers	10.00	5017.00	50170.00
140	10100700	Supply of AC immunized Relays plug in type style QBCA-1, 2HF/4B contacts, DC Biased contractor Relay, Tractive armature, working voltage 24V DC with Heavy duty front contact, Metal to carbon complete with plug board, retaining clips and connectors as per RDSO specification No. BRS 943, IRS. S@46"44@ IRS.S.23	Numbers	20.00	9347.00	186940.00
141	10100800	Supply of AC immunized Relays, plug in type, style QNA1K, 6F/6B contacts. DC neutral line Relay, working voltage 24V DC 1000 ohms, metal to carbon with plug board, retaining clip and connectors as per RDSO Specification No. BRS:931A & STs/E/Relays/UEA/PI dtd 30.05.97 Annex II & IRS:S-23@44"38<44@ STR: SIQ 0420 Ver.1 or latest. The interlocking code for this relay shall be CDEKY.	Numbers	10.00	5763.00	57630.00
142	10100900	Supply of AC Lamp Proving Relays, plug in type, Style QECX, 4F-4B Contacts, working voltage 110 V AC, metal to carbon for LED aspects with plug boards, connectors and retaining clips as per RDSO specification No: BRS:941A, STS/E/RELAYS/AC LIT LED SIGNAL/09-2002 Amdt1, IRS S-23 & 34, STR: SIQ 0420 Ver.1 or latest. The interlocking code for this relay shall be ABDHK.	Numbers	100.00	8021.00	802100.00
143	10101200	Supply of Electronic Time Delay Units (120/60 sec), Working Voltage 24V DC with plug boards, connectors and retaining clips as per RDSO specification No. IRS:S-61/2000, STR: SIQ 422 Ver1.0 or latest.	Numbers	30.00	3882.00	116460.00

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144	10101300	Supply of Key Lock Checking Relay (KLCR) working on 24V DC, AC Immunized with different ward combinations and contact configuration 4F/4B with 2 extra ward plates and with case, RDSO spec no. RDSO/SPN/219/2016 ver 1.0 with amendment or latest, confirming to IRS S-23, S-34 & S@45<44@ IRS S:46.	Numbers	10.00	12693.00	126930.00
145	11110200	Supply, Installation, wiring, testing and commissioning of Datalogger as per RDSO IRS/99/2006 or latest with Power supply arrangement for data logger consists of 12V,42AH VRLA batteries-4 Nos and 10A charger 1 No, EI interface card (Digital interface cards)/ protocol converter, for 512 digital inputs and 32 analog inputs. This includes supply of all miscellaneous items and software for commissioning of datalogger with E1 networking. (including PC/laptop, printer, mounting table and revolving chair of reputed make).	Set	2.00	651840.00	1303680.00
146	12120100	Supply, Installation, testing and commissioning of SMPS based Integrated Power Supply (IPS) up to 4 Lines in RE area confirming to RDSO Specification No. RDSO/SPN/165/2023 (Ver. 4.0) or latest along with B & C Class SPDs, 63 Amps fuse, status monitoring panel. IPS should be supplied with (55+5@61<41@ Nos. of uncharged LMLA Secondary Cells 2V-200AH/2V-300AH (For RE section 2V/200AH for non RE section 2V/300AH) as one set for one IPS confirming to QA IRS:S-88/2004 Low Maintenance Lead Acid Stationary Secondary Cells For S&T Installations along with 16/25 Sqmm cable for each IPS set is (50 Mtrs Red + 50 Mtrs Black + 50 Mtrs Green) = 150 Mtrs. SPECIAL CONDITIONS: 1. Including supply of all the accessories required for installation. The supplier shall take up installation, wiring, testing and commissioning with minimum one-month prior notice period from Railways. 2. All the required cables/ Miscellaneous items like wooden plank, ladder etc. for installation and commissioning shall be supplied as part of the work. 3. Supply, installation, testing and commissioning of SPDs (class B&C) are covered in scope of this work. 4. Contractor should make the power supply arrangements if any required for charging the supplied cells at site. Contractor should arrange the industrial grade diluted H2SO4 for the charging of cells. The cells should be charged as per latest specification.	Numbers	2.00	1520000.00	3040000.00

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147	12120300	Manufacture and Supply of Power Distribution Panel for IPS using Hylam sheet 10 mm as per site requirement and erecting it using MS angle clamp 65mm X 65mm X 8mm, HRC fuse block, Mains control switch, ammeter by-pass switch, voltmeter, ammeter, PBT terminals 60mm and wiring the same using wire PVC 7/1.40mm as per approved power diagram. This also includes termination of power cables using teakwood clamp of size 25mm X 60mm X 150mm on a base plank of 25mm thick 150mm width. (MS angles 65mm X 65mm X 8mm, Hylam sheet of 10 mm Thickness, as per site requirement, bolt and nuts required for manufacture of power panel, HRC fuses, box and carriers, teak wood clamp, wire 7/1.40mm, PVC casing and capping and all other miscellaneous materials will be supplied by the contractor, Supply of PBT terminals 60mm is not included in the item).	Numbers	2.00	63705.00	127410.00
148	12120400	Transportation, Erection and wiring of IPS to power distribution panel. This includes transportation of IPS batteries from stores to the site, Erection of IPS panels on teakwood planks, interconnection between panels and wiring the IPS to power distribution panel using 10 sqmm multi-strand copper cable. The wiring should be done neatly using Aluminium ladder with phenolic sheet (Aluminium ladder, phenolic sheet of thickness 6 mm, teak wood plank of width 150 mm and thickness 25mm, 10 sqmm multi-strand copper cable and all other miscellaneous materials to be supplied by the contractor).	Numbers	2.00	77465.00	154930.00
149	12120500	Supply and Provision of Power Supply Change over arrangement at SM room. CLS panel of size 800x500x275mm powder coated of MS sheet thickness 1.6mm as per RDSO specification: TI/SPC/PSI/CLS/0025 or latest	Numbers	1.00	71807.00	71807.00

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150	12122100	Supply, erection and wiring of diesel generator set, 20 KVA, 230VAC, Single phase - similar to KIRLOSKAR make with CPCB type approved Acoustic enclosure as per the instructions of Railway representative at site. This work includes supply of control panel, exhaust pipe, changeover switch, phase selection switch and provision of interconnections between the DG set, control panel, changeover switch, phase selection switch, and painting. [Diesel generator set with CPCB approved acoustic enclosure, iron clad changeover switches 4 pole 3 position - 100 amps capacity, phase selection switch 4 pole, 2 position - 100 amps capacity, exhaust pipe, asbestos rope, wire PVC 7/1.4mm copper, PVC pipes and bends, clamps and all other miscellaneous materials required for the work shall be supplied by the Contractor].	Numbers	1.00	520530.00	520530.00
151	12122300	Transportation of 10/15/20 KVA DG set, including all lifts and leads (Lift and lead shall be done using suitable hydraulic crane/Fork Lift. The contractor will be responsible for the safe transshipment of the DG set without causing any damages during transportation). The transportation of the DG set over a distance of 80 to 150kms.	Per Trip	1.00	21307.00	21307.00
152	12122400	Excavation of pit, casting concrete foundations as per Drg No.SG/Proj/SK/DG/01/08 for installation of DG set as per the direction of Site In-charge Railway Representative and Carry out 1st service of the DG set as per the Manufacturer's instructions	Numbers	1.00	22138.00	22138.00
153	12122500	Releasing of Secondary cells and battery stands available in the battery room along with connecting strips, wires and terminal boxes carefully without causing any damage to the batteries, accounting and stacking them neatly at a place as instructed by Railway representative at site. After releasing any holes in the walls/ flooring shall be filled with cement mortar and plastered.	Set	1.00	5916.00	5916.00
154	12122700	Releasing of all Power equipment's including equipment stands, terminal boards, power panel etc., in the power room carefully without causing any damage to the equipment's after disconnecting all the supply wires. The released equipment's shall be accounted and stacked at a place as instructed by Railway representative at site. After releasing any holes in the walls/ flooring shall be filled with cement mortar and plastered.	Set	1.00	13037.00	13037.00

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155	12124000	Supply of Online UPS of 1 KVA capacity input voltage 160V AC - 280 V AC, output voltage 230V AC, Operating Freq 47-63 Hz with back up time 30 minutes (APC, Emerson or similar make).	Numbers	1.00	33324.00	33324.00
156	12124300	Supply of Non-deteriorating type Fuse holders 20 Amps for Railway signalling, voltage 240 AC/DC to Specn. No. IRS S.78/2006.	Numbers	100.00	267.00	26700.00
157	12124500	Supply of Non-deteriorating type Fuse links 16 Amps for Railway signalling, voltage 240 AC/DC to Specn. No. IRS S.78/2006.	Numbers	50.00	50.00	2500.00
158	12124700	Supply of Non-deteriorating type Fuse links 6 Amps for Railway signalling, voltage 240 AC/DC to Specn. No. IRS S.78/2006.	Numbers	100.00	46.00	4600.00
159	12124800	Supply of Non-deteriorating type fuse links 2 Amps for Railway signalling, voltage 240 AC/DC to Specn. No. IRS S.78/2006.	Numbers	200.00	36.00	7200.00
160	12124900	Supply and installation of De-ioniser plant (Aqua-Ion Model No. ACAMB 4 Bed Type).	Numbers	1.00	55872.00	55872.00
161	14140100	Supply of Universal Fail-Safe Block Interface (UFSBI) complete and Block panel for Single line operation as per RDSO Spec. No. IRS:S-105/2012 or latest (Per Unit=Set Per Block Section)	Per Unit	0.50	1486809.00	743404.50
162	14140300	Installation, testing and commissioning of UFSBI complete and Block panel for Single line/Double line operation as per RDSO Spec. No. IRS:S-105/2012. [All misc items required for commissioning shall be supplied by contractor] (Per Unit=Set Per Block Section)	Per Unit	0.50	85546.00	42773.00
163	14140400	Supply of Automatic Media changeover of modems working on redundant channels for data transmission on OFC/Quad.	Pair	2.00	39853.00	79706.00
164	14140600	Supply of MODEM compatible with existing UFSBI system (for use with secondary/backup media i.e. 4-wire OFC VF Channel form station Primary mux or UFSBI E1 modem)	Pair	2.00	67384.00	134768.00
165	14140700	Supply of CPU card suitable to work with UFSBI (as per IRS:S-104/2012)	Numbers	2.00	37471.00	74942.00
166	14140800	Supply of CCC card suitable to work with UFSBI (as per IRS:S-104/2012)	Numbers	2.00	31655.00	63310.00
167	14140900	Supply of OUTPUT card suitable to work with UFSBI (as per IRS:S-104/2012)	Numbers	2.00	36515.00	73030.00
168	14141000	Supply of INPUT card to work with UFSBI (as per IRS:S-104/2012)	Numbers	2.00	14397.00	28794.00
169	14141100	Supply of Hot-Standby DC-DC Converter type Power Supply to work with UFSBI (as per IRS:S-104/2012)	Numbers	2.00	53394.00	106788.00
170	14141200	Reset Box as per IRS:S-104/2012	Numbers	1.00	15433.00	15433.00

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171	14141300	Supply and Installation of UFSBI Block Counter of Size 550 mm (L) X 350 mm (W) X 850 mm (H) made of Powder Coated MS Sheet of 1.6 mm thickness and two doors fitted with double lock arrangement on front and back side including necessary cable entry arrangements on top and bottom as per the tentative drawing enclosed. Installation to be carried out using Teak Wood Base and necessary grouting as per the instructions of site engineer.	Numbers	1.00	49453.00	49453.00
172	14141600	Supply of Microprocessor based Solid State Block Proving by Axle Counter (Digital) [SSBPAC(D)] complete for Single line operation as per RDSO Spec. No. RDSO/SPN/175/2005Ver.1 or latest including Station Master's Block Panel, Wired Relay Racks with Relays, necessary Lightning & Surge Protection Devices for Power Lines 24V DC & Data Lines and Block Telephone as per RDSO/SPN/191/2005 or latest (Per Unit = Set Per Block Section)	Per Unit	1.00	1276272.00	1276272.00
173	14141700	Installation, Testing and commissioning of SSBPAC(D) complete including Station Master's Block panel and Automatic Media Changeover Card for Single line operation as per RDSO Spec. No. RDSO/SPN/175/2005 Ver.1 or latest. [All misc items required for commissioning shall be supplied by contractor (Per Unit = Set Per Block Section)]	Per Unit	1.00	56690.00	56690.00
174	14142000	Supply of Automatic Media changeover Card for SSBPAC(D) which includes One Voice Modem Circuit and One E1 Converter Circuit, for working on redundant channels for data transmission on OFC/Quad. Necessary Lightning & Surge protection devices for data lines need to be provided.	Pair	1.00	114415.00	114415.00
175	14142100	Supply of Adaptor Card	Numbers	1.00	3058.00	3058.00
176	14142200	Supply of Display card of Block Panel (Eft-688M)	Numbers	1.00	2086.00	2086.00
177	14142300	Supply of Modem Card (Eft-1000M2)	Numbers	1.00	25723.00	25723.00
178	14142400	Supply of Non-Vital output module (Eft-531M3)	Numbers	1.00	12861.00	12861.00
179	14142500	Supply of Vital output module (Eft-532M3)	Numbers	1.00	23926.00	23926.00
180	14142600	Supply of Voter card module (Eft-530M2)	Numbers	1.00	49933.00	49933.00
181	14142700	Supply of Communication card Module (Eft-533MS)	Numbers	1.00	32248.00	32248.00
182	14142800	Supply of Input Module (Eft-529-M3)	Numbers	1.00	5215.00	5215.00
183	14142900	Supply of CPU module (Eft-528M7)	Numbers	1.00	52365.00	52365.00

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184	14143000	Manufacture and Supply of Block counters as per the sketch 700mmx950mmx800mm with application of patty and good quality painting and shall have the provision to fix the PBT terminals boards and cable inlet holes at bottom (4 Places) and dummied. (Plywood sheet of thickness 25 mm x 25 mm x 6 mm, pad locks, tower bolts, Decolam Sheet for top, sheet guage for front slit door with tower top and bottom bolts, paints, patty shall be supplied by the contractor.)	Numbers	2.00	15196.00	30392.00
185	14143100	Releasing of Existing Block Instruments (all types), Block counters, batteries, block filter, block bell equipment etc., carefully without any damage, accounting and stacking them neatly at a place as instructed by Railway representative at site.	Numbers	3.00	1879.00	5637.00
186	14143200	Supply of Integrated Multiplexer 1U height, 19" rack mountable, 4*E1 uplink, with 4 slots and supporting 8*EM (2W/4W), FXO/FXS and Ethernet card and one slot free for future expansion. Management supporting Telnet as well as NMS. Potential Free contact support. Uplink E1 supporting 4 direction paths as well as 1+1 protection. Unit supports DC (18-72VDC) as well as AC power. Make: MROTEK /CISCO/ MAPLE or similar.	Numbers	4.00	91995.00	367980.00
187	14143600	Supply of E & M card of 8 Channels Suitable to be accommodated in Integrated Multiplexer 1U height of MROTEK make or similar.	Numbers	8.00	40510.00	324080.00
188	15150100	Provision of Earth Electrodes as per RDSO Drawing No.SG/SWR/057 and Earthing of metallic sheath and armour of all cables in all apparatus cases, relay room, equipment room, ASM room for block and control, and earthing of all equipment's in apparatus cases, power room, relay rack, cable termination rack, control panel, signals, lever frames with MS of flat 35mm X 6mm or 19c cable (MS flat for closer by areas and MS flat/19c cable combination for farther areas) as per the instructions of Railway representative at site. The work includes painting of earth resistance value on the earth pit. (Supply of 19C cable is not covered in the scope of this schedule). [MS flat for earthing 35mm X 6mm, cement, GI earth electrodes, common salt, charcoal, country bricks, river sand, soldering materials and all other miscellaneous materials required for the work shall be supplied by the Contractor].	Numbers	70.00	3967.00	277690.00

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189	15150300	Supply of Basic material to construct Unit maintenance free earth as per RDSO spec. No. RDSO/SPN/197 Ver.1.0 or latest. consisting of a) copper bonded steel electrode of 3.0m long, 17.0 mm dia with copper bonding thickness mini 250 micron and UL listed and marked--1 no. b) Earth enhancement compound of RDSO approved brand supplied in sealed bags of min 10 Kgs-03 No. c) Copper strip of 150X25x6mm to terminate earth rod-1 No. d) Copper strip of 300X25x6mm (MEEB)-1 No. e) Copper strip of 150X25x6mm (SEEB)-1 nos	Numbers	30.00	28342.00	850260.00
190	15150400	Installation of Unit Maintenance Free Earth Pit as per RDSO specification No.RDSO/SPN/197 Ver.1.0 or latest and as per Technical Specification	Numbers	30.00	15453.00	463590.00
191	15150500	Supply of Basic material to construct a Maintenance Free Ring Earth with Four Pits (For Interlocked Station, LC Gates/IB Signalling Application) for achieving less than one Ohm as per as per RDSO Spec No. RDSO/SPN/197 Ver.1.0 or latest consisting of a) copper bonded steel electrode of 3.0m long, 17.0 mm dia with copper bonding thickness mini 250 micron and UL listed and marked--4 no. b)Earth enhancement compound of RDSO approved brand supplied in sealed bags of min 10 Kgs-12 No. c) Copper strip of 150X25x6mm to terminate earth rod-4 No. d) Copper strip of 300X25x6mm (MEEB)-4 No. e) Copper strip of 150X25x6mm (SEEB)-4 no's	Numbers	2.00	93382.00	186764.00
192	15150600	Installation of Maintenance Free Ring Earth with Four Pits (For Interlocked LC Gates/IB Signalling Application) as per RDSO specification No. RDSO/SPN/197 Ver.1.0 or latest and as per Technical Specification.	Numbers	2.00	40720.00	81440.00
193	15150700	Supply of 25x3 mm Cu tape.	Metre	100.00	715.00	71500.00
194	15150800	Installation of 25x3 Sq mm Cu tape.	Metre	100.00	316.00	31600.00
195	15150900	Supply of 35 Sq mm Multi-strand Single Core PVC insulated Copper Cable as per IS: 694 for connecting Main Earth Electrode to MEEB in equipment room. Color: Green.	Metre	150.00	567.00	85050.00
196	15151000	Supply of 16 Sq mm Multi-strand Single Core PVC insulated Copper Cable as per IS: 694 for connecting MEEB to SEEB and SPDs to MEEB. Color: Green.	Metre	150.00	253.00	37950.00
197	15151100	Supply of 10 Sq mm Multi-strand Single Core PVC insulated Copper Cable as per IS: 694 for connecting SEEB to all equipment's. Color: Green.	Metre	150.00	159.00	23850.00

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198	15151200	Installation of 35 sqmm single core Cu cable for connecting main earth electrode to equipment room (routing through GI pipe/DWC/HDPE/PVC conduit pipe of suitable size as per site requirement	Metre	150.00	203.00	30450.00
199	15151300	laying of 16 sqmm Cu cable/10 sqmm Cu cable between BRC and racks. The work includes mechanical connection by providing two Cu lugs and two steel screws, drilling to two holes and removal of powder coating on rack body, thimbles ties, etc. and routing the same as per site requirements.	Metre	300.00	431.00	129300.00
200	15151600	Supply of 50x6 mm GI Tape for interconnecting earth electrodes.	Metre	100.00	590.00	59000.00
201	15151700	Laying of 50x6 mm GI Tape for interconnecting earth electrodes.	Metre	100.00	205.00	20500.00
202	15152000	Supply of Lightening and surge arrester of class B and C suitable for single phase supply in TT network as per RDSO spec.no. RDSO/Spn/165/2023 ver 4.0 amd.1 or latest.	Numbers	2.00	31737.00	63474.00
203	15152100	Installation and commissioning of Class B and C arresters as supplied. These din rail mountable devices along with 63 amps HRC input fuse and fuse base shall be fixed in a wall mountable cabinet of size 450 x 250x150 mm made as MS steel of 20 gauge or better with IP31 protection and power coating. All the internal power wiring shall be made by using 10sq.mm cu cable. the PF contract of the class C arrestor shall also be wired using cable thickness of 2,5 sq.mm and terminated on a suitable terminal block.	Numbers	2.00	6347.00	12694.00
204	15152300	Supply of Earth Leakage detector 12 channel (4 Channels110V AC, 2 Channels- 110V DC, 6 Channels- 24V DC) as per RDSO Spec./256/2002 or latest with 6-digit counter.	Numbers	2.00	156808.00	313616.00
205	15152500	Installation, Testing/ commissioning of Earth Leakage Detector 8/12/16 channel.	Numbers	2.00	49542.00	99084.00
206	16160100	Supply, installation testing and commissioning of Heat and smoke multi sensor as per RDSO/SPN/217/2025 ver-3.1 or latest. along with its base, back-box and all accessories in compliance with IS:2175 and IS:11360 standard and Under writers Laboratory (UL) listed.	Numbers	25.00	6276.00	156900.00
207	16160300	Supply, Installation, testing and commissioning of Analogue linear heat sensing (LHS) cable as per RDSO/SPN/217/2025 ver-3.1 or latest	Metre	200.00	1420.00	284000.00

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208	16160400	Supply, Installation, testing and commissioning of linear heat sensing interface Module as per RDSO/SPN/217/2025 ver-3.1 or latest in compliance with IS standards and Underwriters Laboratory (UL) listed.	Numbers	2.00	98649.00	197298.00
209	16160500	Supply of Fire survival cable 2x 1.5 sq.mm unarmoured as per RDSO/SPN/217/2025 ver-3.1 or latest	Metre	300.00	161.00	48300.00
210	16160600	Supply, installation, testing and commissioning of Networkable single loop addressable Fire alarm Control panel expandable upto 4 loops with GSM interface as per RDSO/SPN/217/2025 ver-3.1 or latest. This work involves supply, fixing, installation and testing of control panel. The control panel shall be networkable to Zonal /Divisional headquarters preferably over TCP/IP and shall have clock synchronization facility. This includes Networking module (TCP/IP) for control panel along with power supply unit and battery set of required capacity for 24 hours backup as per RDSO specification. The panel should support degrade mode operation in compliance with IS: 2189, EN54 standards and Underwriters Laboratory (UL) listed.	Numbers	1.00	210156.00	210156.00
211	16160700	Supply, installation, testing and commissioning of GSM module for Control panel with backbox and all other accessories as per RDSO/SPN/217/2025ver-3.1 or latest. with auto dialer function to SMS during failure or fire situation.	Numbers	2.00	34185.00	68370.00
212	16160800	Supply, installation, testing and commissioning of Manual call point (resettable) with backbox and all other accessories as per RDSO/SPN/217/2025ver-3.1 or latest	Numbers	1.00	8009.00	8009.00
213	16160900	Supply, installation, testing and commissioning of Relay module with backbox and all other accessories as per RDSO/SPN/217/2025 ver-3.1 or latest	Numbers	1.00	4366.00	4366.00
214	16161000	Supply, installation, testing and commissioning of Hooter and Visual strobe alarm units with backbox and all other accessories as per RDSO/SPN/217/2025 ver-3.1 or latest along with its power supply unit.	Numbers	2.00	14607.00	29214.00
215	16161100	Supply, installation, testing and commissioning of Control module with backbox and all other accessories as per RDSO/SPN/217/2025 ver-3.1 or latest	Numbers	2.00	5611.00	11222.00

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216	16161300	Supply, installation, testing and commissioning of Monitor module for 3rd party with backbox and all other accessories as per RDSO/SPN/217/2025 ver-3.1 or latest	Numbers	1.00	3586.00	3586.00
217	16161400	Laying / drawing of various type of cables on PVC pipe / capping casing, or cable trays, ladder, shelter etc. as instructed by Railway engineer at site. (Indoor cables to be drawn through pipe, outdoor cables if required to be clamped on wall /floor etc.	Metre	1500.00	4.00	6000.00
218	16161500	CO2 Fire Extinguisher: Supply, installation, testing and commissioning of CO2 fire extinguisher 6.5 kg capacity conforming to IS15683 with ISI mark provided with all fittings and accessories.	Numbers	6.00	25267.00	151602.00
219	16161700	Supply of aspiration-type smoke detector. Highly sensitive smoke aspiration system for monitoring of rooms and equipment for earliest possible fire detection For Relay rooms as per RDSO spec No.RDSO/SPN/217/2025 ver3.1or latest.	Numbers	2.00	630843.00	1261686.00
220	16161800	Supply and Installation of Air Sampling CPVC Pipes with all required accessories for the Aspiration System. (Per Unit = Per Relay Room)	Per Unit	2.00	257648.00	515296.00
221	16161900	Supervision, Programming, Installation, Testing and Commissioning of Aspiration Smoke detection Supplied.	Numbers	2.00	72212.00	144424.00
222	17170100	Supply of High Availability Single Section Digital Axle Counter (HA-SSDAC) with Dual Track sensor Devices as per RDSO specification No. RDSO/ SPN/ 177/ 2012 version 3.0 or latest (Phase reversal type) as per details given below) Configuration 2DP-1 section b) length of cable required with each track devices -15 mtrs.	Set	1.00	1092166.00	1092166.00
223	17170200	Installation, testing and commissioning of High Availability HASSDAC to be installed, wired, tested and commissioned by OEM as per the guidelines issued by RDSO wiring discipline should be as per RDSO TAN No. STS/ E/TAN/ 6001 Version 1.0 or latest. The pre-commissioning check list issued by RDSO for HASSDAC to be prepared by OEM and jointly signed by OEM & railway before commissioning of HASSDAC. OEM should submit site installation certificate.	Set	1.00	60792.00	60792.00

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224	17170300	Tool Kit for High Availability Single Section Digital Axle Counter as per latest specification No.RDSO/SPN/177/2012 (Version - 3) or latest, consisting of :- (i) Portable Data Analyser (Downloading Event Logger Data for analysis and report generation) - 1 No. (ii) Pure Sine Wave Digital Multi-meter Fluke Make (Model-1871) or Rishab Make (Model-18S) - 1 No. (iii) Extender Card - 1 No.(iv) Dummy Wheel - 1 No. (v) Ring Spanner (17-19, 24-26) - 1 No. each (vi) Open End Spanner (17-19, 24-26) - 1 No. each (vii) Socket Spanner with Handle - 1 No. (viii) Torque Wrench (Jaicom JPR or equivalent 88 NM_ - 1 No. (ix) Screw Driver No. 902 or as directed by Engineer-in- Charge - 1 No. (x) Screw Driver No. 935 or as directed by Engineer-in - Charge - 1 No. (xi) Marking Jig for Drilling - 1 No. (xii) Dummy Load to check Power Supply (Resistive) - 1 No. and any other additional specialized Tools suggested by RDSO Approved OEM required for Trouble Shooting and Maintenance of Equipment.	Set	1.00	240974.00	240974.00
225	17170400	Multi Section Digital Axle Counter (MSDAC): Supply, Design, Installation, Testing and Commissioning of Multi Section Digital Axle Counter (MSDAC) complete system as per RDSO Specification No. RDSO/SPN/176/2013 version.3 with latest amendments STR No. SIQ 0001 Ver.2.0 or latest. MSDAC Reset procedure shall be as per SWR MSDAC Reset policy. Tenderer shall design the scheme for provision of required number of evaluators, reset equipment's, trackside junction boxes, detection points and track clearance relays etc and shall be submitted along with the offer. Remote Diagnostic System shall be provided at station. Length of the cable required for each DP and Rail Type will be specified at the time of issuing call Letter. [This also includes supply of 10% all types of spare cards, LV Boxes, Wheel sensors and other essential modules as specified in RDSO Spec, it shall be rounded to nearest integer subjected minimum of one item. One set of Specialized Tool and Measuring equipment's as per RDSO specifications shall be supplied. (Per Detection Point = DP)	Per Detection Point (DP)	36.00	387561.00	13952196.00
226	17170500	Tool set for wheel sensor mounting and maintenance of MSDAC consisting of torque wrench, ratchet, testing plate, measuring tape, screw driver, and gloves and multi meter fluke115	Set	1.00	127052.00	127052.00

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227	17170600	Releasing of existing Axle Counter field equipment (transmitters coils 2 No. receiver coils 2 No.) on the rails at the entry/exit track circuits without causing any damage. Excavating the under the track for removing track devices, connecting cables and duly covering the cable duct. Disconnecting and removing of Amplifier (electronic junction box and other associated equipment from the location box and transporting to a central location for accountal.	Set	1.00	1215.00	1215.00
		Design of SIP in Auto Cad. Initially, contractor shall submit 3 copies for approval of Railways. One set will be returned duly approved for making a fair copy or for re-submission for approval after incorporating the changes as required by Railways. After carrying out changes, three Hard copies to be submitted for Railway Approval. After approval, Auto Cad copies to be submitted in USB pen drive along with approved copy in Tracing film and six copies of final approved drawing (Ammonia Print or print as approved by Railway) in properly bound booklet along with its scanned copy.				
228	18180102	For a Three-Line Station	Set	1.00	20127.00	20127.00
229	18180104	For a Five-Line Station	Set	1.00	54235.00	54235.00
230	18180107	For a Eight-Line Station or more	Set	1.00	80614.00	80614.00
		Design of SWRD in Auto Cad. Initially, contractor shall submit 3 copies for approval of Railways. One set will be returned duly approved for making a fair copy or for re-submission for approval after incorporating the changes as required by Railways. After carrying out changes, three Hard copies to be submitted for Railway Approval. After approval, Auto Cad copies to be submitted in USB pen drive along with approved copy in Tracing film and six copies of final approved drawing (Ammonia Print or print as approved by Railway) in properly bound booklet along with its scanned copy.				
231	18180202	For a Three-Line Station	Set	1.00	10429.00	10429.00
232	18180204	For a Five-Line Station	Set	1.00	28276.00	28276.00
233	18180207	For a Eight-Line Station or more	Set	1.00	34396.00	34396.00

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234	18180400	Preparation of Table of Control based on the approved Signalling Plan as per RDSO Sig DATE Format. AutoCAD in A3 size. Initially, Contractor shall submit 2 set of documents complete for approval of Railways. One set is returned either duly approved for making a fair copy or for re-submission for approval after incorporating the changes as required by railways. The TOC & Preliminary Check and Certification to be done by the IRSE or IRSTE (license holder). After carrying out necessary changes, two set of 'Hardcopies' are submitted for administrative approval. The final corrected drawings shall be supplied to Railways on 80/90 GSM Tracing film and 2 copies of blue print properly bonded booklets and the soft copy in USB Pen drive.	Per Route	100.00	1388.00	138800.00
235	18180500	Independent checking, verification & approval of Interface Circuits by IRSE/IRSTELO License holders for stations having up-to 25 routes.	Station	2.00	60279.00	120558.00
236	18180600	Independent checking, verification & approval of Logic Circuits of stations of up-to 25 routes by IRSE/IRSTELO License holders.	Station	2.00	134748.00	269496.00
237	18180700	Additional payment for checking, verifying and approval of Interface Circuits / Logic circuits having more than 25 routes by IRSE/ IRSTELO License holders. (Per Unit = Per Route Per Station)	Per Unit	95.00	6338.00	602110.00

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238	18180800	Preparation of Cable Route Plan, Cable Core Plan, Cable Termination Rack Particulars, Location Box Particulars, Power Supply Diagram, Track Circuit Bonding Diagram and/or any other drawing on Auto-CAD in A2/A3/ A4, etc. size (as per instructions of Engineer in-charge). Initially Contractor shall submit 2 sets of 'AS PLANNED' documents complete for approval of Railways. One set is returned either duly approved for making a fair copy or fore-submission for approval after incorporating the changes as required by railways. After preliminary approval, execution of work shall be carried out at site. After Completion of work, 2 sets of AS MADE Check Prints are submitted for administrative approval. Railways will return one set to the contractor duly approved with alterations/corrections if any. The contractor shall incorporate Railways alterations/corrections in the tracings without any deviation and submit all tracings complete in all respect along with its soft copies in USB Pen Drive and 6 sets of final completion drawings in properly bound booklets. [For Centralized Electronic Interlocking Stations/Small Stations]	Station	2.00	117003.00	234006.00
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**HUBLI DIVISION-GATI SHAKTI/SOUTH WESTERN RLY
TENDER DOCUMENT**

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239	18181100	Submission of all relevant final 'Asmades' of circuit diagrams, contact analysis charts, termination particulars of apparatus cases and cable termination rack, power supply arrangements, relay index board, cable plans, cable route plans, red boundary plans and all other particulars covered under various schedules. All 'As made' shall be prepared by the Contractor in AUTOCAD 2000 or latest and submitted in CDs. One copy of the 'As made' check print shall be submitted before Testing the circuits. The final negatives shall be made in tracing sheet (80 to 90 gsm). All 'As made' except cable plan, cable route plan, bonding diagram & power supply diagram shall be prepared in A3 size. On approval the contractor shall submit along with the negatives, 8 copies in each, duly making booklet neatly bound. Out of 8 sets, 2 sets of drawings and other plans shall be kept in transparent plastic cover (2 sheets back-to-back in one plastic cover) and handed over to Railways. Also, the contractor has to supply one set of As made in 'Reproduction Film'. The approved circuit diagram will be issued by Railways in soft copy as well as two sets of hard copies. Wherever alterations to existing circuits are involved, the existing as-made circuit diagrams will be supplied by Railways either in CDs or RP film. The Contractor shall incorporate the details of all the new wirings and alterations in the CD/ RP film and submit them to Railways. On approval 8 copies shall be made for As- made circuit diagrams also as mentioned above.	Sheet	30.00	409.00	12270.00
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240	18181200	Printing, Binding & supply of the following Registers with latest proforma given by in-charge officer each register of 100 pages. Station Asset Register/Deficiencies Book/Officer Inspection book/ Work site orientation classes note book /Station Message book/Infringement measure book fog signal gears/Route cancellation register/Relay room Key register/Cable testing summary/Signal maintenance record register/Power Systems Battery maintenance Register/Mechanical Signalling Register/Axle Counter Maintenance Register/Block instrument Maintenance Register/Track circuit maintenance Register/Lifting barriers maintenance Register/Electrically operated point maintenance Register/Electronic interlocking Maintenance Register/Location box maintenance Register/Earth Testing record Register/Relay room register/Joint Inspection of Points and Crossings register/Block Proving Axle Counter Register/Diesel generator /Solar panel Register (Per Unit = Per Register)	Per Unit	100.00	273.00	27300.00
241	19190200	Supply of AC/DC Digital Clamp meter Current measurement upto 200A AC/DC True RMS measurement for AC voltage & current. (Large jaw of size of 18mm) Model: FLUKE 362/Rishabh or higher as per specification.	Numbers	1.00	6315.00	6315.00
242	19191500	Supply of insulated tool kit consisting of 1. 3/8" sq Dr Socket 6mm, 2. 1/2"sq Dr Socket 8mm 3. 1/2"sq Dr Socket 18mm, 4. 1/2"sq Dr Socket 19mm 5. 1/2"sq Dr Socket 20mm, 6. 1/2"sq Dr Socket 22mm 7. SP Spanners 10mm, 8. SP Spanners 12mm 9. adjustable Wrench 8" 10. adjustable Wrench 12" 11. 3/8" Sq Dr Ratchet handle 12. 1/2" Sq Dr Ratchet handle 13. T handle 1/2" 14. Short Extension Rod 1/2" 15. Stanley make Water-Proof Medium Nylon Tool Bag 16. Electricians TRMS digital multimeter FLUKE-117 17. MECO Clamp meter 3690 AC/DC 600A 18. Dummy Wheel-1 No Best Indian make electrical hand gloves suitable for 1000V. Make: Friedrich Germany, INSULA or similar.	Numbers	1.00	67480.00	67480.00
243	20200100	Provision of One skilled and One unskilled staff round the clock to attend to teething trouble of the installation along with SSE/JE(Sig) after the installation has been brought into commissioning. The work includes routine maintenance, failure restoration as per the direction of the SSE/JE(Sig).	Man-Month	12.00	76669.00	920028.00

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244	20200300	Providing Services of helping hand man power to carry out miscellaneous/sundry works in the office/field between 08.00 hrs and 20.00 hrs of the day and accompanying Railway staff with all expenses of transportation, accommodation, food, consumables etc., with all ascents/descents, taxes, octroi, cess, fess, duties, with contractors tools and plants, materials, consumables, labour, crew, machineries with all lead and lift etc., complete as per special conditions, specification, regulation and as directed by Railway Engineer-in-charge.	Man-Days	360.00	674.00	242640.00
245	20200500	Provision of Security Guards round the clock in 12 hours shift beat from Up Home Signal to Down Home Signal to avoid theft of signalling assets. {Per Unit- Per 12 Hours shift}	Man-Days	360.00	752.00	270720.00
246	21210100	Supply of Telecom Termination panel with WAGO/ Pheonix/Elmex make or similar disconnecting Terminals blocks of size1500mm x 500mm x 200mm thickness 1.6mm (16 SWG) 150 numbers of disconnecting terminal block with accessories. (The box should be divided in to two compartments 500 mm from TOP with door arrangement including locking, and bottom 1000mm closed fully with screws WAGO/Pheonix/Elmex terminals suitable for cable dimensions maximum of 2.5 sq.mm. Provision of easy and ensuring aesthetics.	Numbers	1.00	47403.00	47403.00
247	21210200	Fixing of 'Telecom Termination Panel' and termination of cables on Wago/krone connectors as per the instructions of the site Engineer.	Numbers	1.00	5681.00	5681.00
248	21210300	Supply of 20 pair CT box with Disconnecting terminals of Wago/Pheonix/Elmex make or similar.	Numbers	4.00	4344.00	17376.00
249	21210400	Fixing of 20 Pair CT box with disconnecting terminals of Wago/Phoenix//Elmex make or similar	Numbers	4.00	3439.00	13756.00
250	21210500	Supply of 10 pair CT box with Disconnecting terminals of Wago/Pheonix/Elmex make or similar	Numbers	2.00	2931.00	5862.00
251	21210600	Fixing of 10 pair CT box with disconnecting terminals of wago/phonix/elmex make or similar and termination of cable at the station/LC gates etc. This includes fixing of Quad/PIJF cables and CT box on the wall.	Numbers	2.00	2655.00	5310.00
252	21210700	Supply of Joint kit for Quad cable conforming to RDSO specification No.IRS-TC 77/2012 Rev 3.0 or latest for quad cable.	Numbers	10.00	4023.00	40230.00

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253	21210800	Provision of normal joint of Heat Shrinkable type complete for 6 quad cables. After the jointing the through cable has to be tested for insulation resistance and loop resistance in presents of Railway Engineer and in case of any defects the jointing has to be done at free of cost by the contractor. [Heat Shrinkable jointing kit conforming to RDSO specification No.IRS-TC 77/2012 Rev 3.0 covered in the supply portion has to be used for this purpose.] The Contractor should supply all other small items free of cost which are required for making a joint. Only gas blower to be used for blowing	Numbers	10.00	4013.00	40130.00
254	21210900	Excavation of jointing pit without damaging the fiber and provision of joint chamber of 1.2 mtr dia, 60 Cm height and 50 mm thickness with two-piece top cover and bottom cover. with holes for drainage and cable entry (The reinforcement drawing enclosed). This includes backfilling and ramming of the trench after placing the joint closure and cable loop in the chamber without causing any damage to the same and consolidation of soil as well as disposal of soil as per plan and as advised by RailTel Representative.	Numbers	2.00	4626.00	9252.00
255	21211000	Supply, transport and filling of the RCC joint chambers with dry sand mixed with ant termite chemical as required in specification up to 400mm height and the cover is refixed in position.	Numbers	2.00	773.00	1546.00
256	21211100	Supply & Provision of Mid-Section/Derivation OFC joint enclosure including Splicing (24 Fibre) inside already prepared jointing pit. This does not include provision of joint chamber, top plate & back filling. The joint Enclosure shall be as recommended in the technical specification	Numbers	2.00	14908.00	29816.00
257	21211200	Leading in arrangement for OFC cable inside service building by providing large G.I. Band at Bottom & vertical G.I Pipe of 75 mm dia. The vertical pipe shall be 75mm above the floor level & the mouth of the pipe shall be covered by Plastic Cap. The floor shall be restored to the original condition.	Job	4.00	2384.00	9536.00
258	21211300	Supply of 2T V.F Transformers of 470:1120 ohms or 470:600 ohms or 470:470 ohms as per RDSO spec No. IRS-TC-76-2021 or latest.	Numbers	50.00	5893.00	294650.00

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259	21211600	Wiring of SDH ADMs, PDMUX with accessories, surge protection arrangement, FDF, racks, DDF, runway ladder etc. this includes connecting all pig tails and optical patch cards etc. to SDH and primary mux equipment with all interface cards to 48V bus including supply of wires and connectors, terminations of all EIs on DDF, termination of VF interface circuits to krone type MDF at both ends including taking PVC cable over runway or a wall, krone type DP with all surge and lighting protection complete for all the circuits derived from PD mux. This work includes wiring and connection of telephones in SM's room and extension of generator supply equipment. All miscellaneous materials like power wires conduit and accessories etc. shall be supplied by the contractor. Suitable link panel should be provided on this rack for testing and isolation of fault.	Numbers	1.00	39686.00	39686.00
260	21211700	Supply and installation of SMPS charger 230V AC 50Hz input and 48V DC/25 Amps output in (2+1 configuration) suitable for VRLA battery as per RDSO specs: RDSO/SPN/TL/23/99 ver.4 or latest.	Numbers	1.00	167032.00	167032.00
261	21211800	Supply and installation of 48V,200AH VRLA battery bank as per latest specification No.IRS-S93/96A [One set battery bank contains 24 nos of 2v/200AH cells].	Numbers	1.00	152118.00	152118.00
262	21211900	Supply and installation of 19"- 42U Rack complete with fittings for housing LER, LSR, SDH equipment, FDMS, DDF and other equipment like cable managers, completely wired using krone module and other equipment's like runaway ladders etc., as per technical specification below. It should be able to lock all the equipment with only order wire telephone outside the rack, the rack should of APW President/ Rittal make etc., The components of the rack are specified below. this includes transportation and installation of rack in prefab/building at specified stations. a. Rack S33 42U 600WX600D -1 no. b. fixed side panels 42U x 600 D - 2nos. c. Front glass door plain 2U/600W -1 no. d. Rear MS door plain 42 U/600W-1 no. e. Caster with brakes- 2nos. f. Fans directly mounted on the top 48v Dc 90CFM - 2NOS. g. Krone mounting bracket -01 No. h. MCB mounting panel with MCBS a)32 Amps MCBS (DP) - 2 nos. b) 6 Amps MCBS (DP) - 6 nos. i. Earth continuity kit -o1 nos j. Equipment trays-5 nos. k. channel with cable loops 42U-2 Nos	Numbers	1.00	55624.00	55624.00

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263	21212000	Supply, installation, termination and testing of Rack/Wall mountable FDMS and termination IN and OUT 24 fiber OFC cables (with all connecting materials) routing/dressing fiber as per direction of engineer/In charge. this work includes termination/splicing of fibers and testing of fibers in the section/block and report of fiber to be submitted in hard and soft copy.	Numbers	2.00	24253.00	48506.00
264	21212200	Supply of RJ 45 connector suitable for STP/UTP cable	Numbers	100.00	3.00	300.00
265	21212300	Supply of CAT-6 Patch Cord-5mtrs length.	Numbers	10.00	394.00	3940.00
266	21212400	Supply of universal DTMF way station control telephone conforming to spec., No.IRS.TC82/2005 or latest	Numbers	2.00	7169.00	14338.00
267	21212500	Supply of light weight portable control telephone (4Wire/2Wire) as per RDSO specification IRS: TC-78/2020 Ver. 1.1 or latest.	Numbers	1.00	6056.00	6056.00
268	21212600	Installation and wiring of existing Way station equipment DTMF and control telephones. The work involves fixing the released way station equipment on the wall at an appropriate place in consultation with Railway representative at site, wiring and interconnecting the same with test panel, control telephones and batteries. (Supply of way station equipment, control telephones and batteries is not included in this item). [Wire PVC 3/0.75mm & 16/0.2mm copper, MS clamps for fixing arrangements, PVC tubes 25mm dia for interconnections and all other miscellaneous items required for the work shall be supplied by the Contractor].	Numbers	1.00	6812.00	6812.00
269	21212800	Supply of Caller Id phone make: Beetel or similar.	Numbers	5.00	869.00	4345.00
270	21212900	Supply of 100 pair krone box with modules & mount assembly wall mounting type powder coated with surge and lightning arrester and locking facility.	Numbers	2.00	4680.00	9360.00
271	21213000	Installation testing and commissioning Of 100 pair krone connector box, fitting the same wall as directed by Railway Representative	Numbers	2.00	702.00	1404.00
272	21213100	Supply of Emergency Socket boxes of FRP type, conforming to specification RDSO/SPN/TC/44/2002 Ver. 3.0 or latest.	Numbers	10.00	5687.00	56870.00
273	21213200	Supply of 6 pin socket flat as per RDSO Spec. No. IRS/TC/42/20 Ver. 1.0 with latest	Numbers	10.00	784.00	7840.00

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274	21213300	Provision of Emergency communication along the railway track. Fabrication of emergency post as per RDSO Drawing No. UBL/SG/CON/6/2004 and fixing of emergency socket post and burying the post to a depth of 1m after entry of cable. The post to be painted with red oxide before installation. This includes termination of derivation cables on termination strip inside the emergency socket, painting of emergency socket post with alternate black and white strips of 6" width. The paint used should be of standard quality and two coats of paints should be applied. The EMC post should be painted with red oxide base before painting. (rails will be supplied by railways for the fabrication of emergency post)	Numbers	6.00	5851.00	35106.00
275	21213400	Drawing of Switch Board/Power cable through PVC pipe/ Casing capping fixed on the walls, as directed by site InCharge. This work includes termination of cables in the krone connector and fixing of IPM and extending earthing to krone box	Metre	1500.00	14.00	21000.00
276	21213500	Supply of transceiver VHF module 25 Watts synthesized configuration VM-04 of bandwidth 136-174 MHz with DTMF microphone, of Motorola make model GM338/XiRM- 3688 or kenwood TK7360 as per latest specification	Numbers	1.00	32358.00	32358.00
277	21213600	Installation, testing and commissioning of 25 Watt VHF set with GP antenna and antenna cable of length 30 M, power supply and battery of 12V 65AH. This includes supply and fixing of GI pipe of suitable dia to the required height as per the guidance of the field engineer, wiring of antenna cable through PVC conduit. All the materials required for installation to be supplied by the contractor. VHF equipment, SMPS power supply, Antenna & antenna cable will be supplied by the Railways.	Numbers	1.00	7382.00	7382.00
278	21213700	Supply of 3dB gain Slim Jim antenna for 25-Watt VHF set	Numbers	1.00	2779.00	2779.00
279	21213800	Supply of low loss RF coaxial cable RG 217U with silver tipped connectors on both ends, 30 meters length	Numbers	1.00	8569.00	8569.00
280	21213900	Supply of SMPS based Float cum Boost mode Power supply unit of 12V/15Amps. for HF/VHF/UHF Transceiver.	Numbers	2.00	4755.00	9510.00
281	21214000	Supply of Sealed Maintenance Free Battery 12v/100ah Similar to Amar Raja make or better.	Numbers	2.00	8496.00	16992.00

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282	21214100	Supply and installation of Digital office clock with GPS synchronization (stand-alone mode) as per RDSOSpec.No. RDSO/SPN/TC@47>47@2008 Rev 4.1 or latest with RED LED with complete installation including all necessary accessories as directed by Railway Site Engineer.	Numbers	1.00	24472.00	24472.00
283	21214200	Supply of Digital Platform Double Sided Clock with GPS synchronization as per RDSO Specification No RDSO/SPN/TC / 62 /2008 Rev 4.1 or latest. Including all the accessories required for the installations.	Numbers	2.00	30666.00	61332.00
284	21214300	Local service terminal portable intel core i713th Gen with windows 11 pro (16GB) Make: Dell or equivalent as per latest technical specification	Numbers	1.00	99584.00	99584.00
285	21214400	Supply and fixing of OFC patch cards 5 Mtrs length as per site requirements. (LS-SC, SC-SC, LC-LC, FC-FC patch cards as per site requirement)	Numbers	8.00	753.00	6024.00
286	22220200	Transportation of Signalling materials by road as per the instructions of Railway representative at site. The work also includes loading and unloading of the materials. Transportation more than 100 Kms.	MT-Km	30000.00	16.00	480000.00
287	22220500	Supply of Steel Almirah Similar to (Model: Godrej Store well/slimline 4S)	Numbers	3.00	25638.00	76914.00
288	22220600	Supply of Office/executive/computer support Revolving Chairs (Bravo high back and Cushioned) of Godrej or reputed firm for seating arrangement	Numbers	4.00	11371.00	45484.00
289	22220700	Supply of Office table with plywood plank with thickness of 18mm, teakwood beading with three draws of size 4' X 2' with heavy duty S type chair with hand rest. The above is of Godrej or similar make	Numbers	4.00	16381.00	65524.00
290	22220800	Navtal locks or godrej make 75mm or better with 2 keys.	Numbers	10.00	631.00	6310.00
291	22220900	Supply of Step ladder Aluminium made of BATHLA make or better of App 5 feet height	Numbers	2.00	10392.00	20784.00
292	22221000	Fabrication, supply and fixing Aluminium ladder of size 25 X 25 X 5mm, 200mm width, arrangements for drawing various wires in the battery, equipment and relay rooms.	RMT	10.00	4128.00	41280.00
					Total	94809133.50
Schedule Schedule SB-S&T NS Items						
Item- 15 S&T NS Items						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supply of Final AS MADE documents of Obalapurma stations.	Set	2.00	140000.00	280000.00

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2	2	Supply, Installation, Testing and Commissioning of Isolated DC-AC Inverter of 1KVA or higher. Input 48 V DC, Output:220V AC, with all required Protection Circuits.	Numbers	1.00	36000.00	36000.00
3	3	Supply of CAT 6 UTP Patch Cord-2 meters [Detailed Specification in Technical Document]	Numbers	10.00	90.00	900.00
4	4	Supply and Termination of 12 Fiber 12 SC Type Rack Mountable FDMS loaded with SC '0' DB & Adaptor SC SM Pigtail 1.5 meters with all the accessories required for installation [Detailed Specification in Technical Document]	Numbers	2.00	7700.00	15400.00
5	5	Description:- Supply and Fixing of PVC Trunking of 50X50mm with cover of 2mm thick and 2mtr length each. (This includes all materials like clamps, bends, couplers, fixing required for laying). Inspection Consignee	Metre	50.00	580.00	29000.00
6	6	"Supply and installation of Layer 2 Switch as per RDSO/SPN/TC/65/2021, Rev.6.0 or latest. Minimum 8+2 Port Manageable with 8 Nos 10/100/1000 Mbps Ethernet port, POE+ & Single Fiber 2 Nos 1G SFP Port with BX SM SFP Optical Modules loaded including mounting kit and all the accessories. Inspection RDSO"	Numbers	1.00	33000.00	33000.00
7	7	Supply and installation of SIP Based Basic IP Phone with 128x64 Pixel Graphical LCD as per Specification.	Numbers	1.00	5100.00	5100.00
8	8	Supply & installation of Audio Amplifier of Make: AHUJA Model: SSA-250DP or similar, workable on 230V AC/12VDC supply with protection.	Numbers	1.00	16500.00	16500.00
9	9	Cutting grooves on walls / floor for fixing PVC pipes 50mm dia and drawing the cable through it resurfacing to original conditions	Metre	50.00	120.00	6000.00
10	10	Installation, Commissioning & Testing of LER & LSR IP MPLS Routers, switches, IP Phones, Gateways etc including supply & Installation of all the accessories like , Earthing Cable, Optical Patch Cords of 3 mtr-4 Nos for LER & 8 Nos for LSR s, Cat 6 Patch Cords of 1 mtr -4 Nos , one 6A MCB for each LSR and LSR , wiring etc. as required for Routers	Numbers	1.00	13000.00	13000.00
11	11	Releasing and Shifting of Telecom items like Routers, STM, PD Mux, VHF, Passenger amenities & VSS etc as per instruction of Work in charge	Lumpsum	1.00	20000.00	20000.00
12	12	Supply and fixing of perforated cable tray 1.6mm x 250mm x 60 mm size with 3 Metres length each with all accessories like support Brackets, angles, bends and coupling etc for fixing as per site condition. Make OBO or similar equivalent or higher version	Numbers	175.00	2245.00	392875.00

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13	13	Supply of PVC Pipe 25mm dia, round conduit as per Indian standard of reputed make confirming to IS:9537 (part) - 1983 (reaffirmed 2007) or latest	Metre	1000.00	25.00	25000.00
14	14	Fixing of PVC pipe or casing & capping, using bends, couplers, T-joints & flexible pipe wherever necessary with fixtures. (All required materials for fixing like clamps, bends, couplers, T-joints & flexible pipe, etc are to be borne by the contractor	Metre	1000.00	11.00	11000.00
15	15	Supply and installation of 6U Mount Rack with one Number powers tip of 4 sockets, one Fan and required fixtures for mounting rack and equipments	Numbers	2.00	8631.00	17262.00
16	16	Supply of power supply unit for universal DTMF way station control phone conforming to spec.No.IRS:TC-72/97 Amdt 1 or latest with 12V/7AH MF battery.	Numbers	2.00	5000.00	10000.00
17	17	"Disconnecting/shifting, Installation, configuration of Rack (42U/9U/6U/IPIS) along with PC, Switches, servers, TV etc including all the accessories required for installation"	Numbers	5.00	10791.00	53955.00
18	18	"Releasing of PDCH / IP based Camera (CCTV)/ CGDB/ Speakers / GPS clocks handing over the released materials like cables etc to the section supervisor"	Numbers	30.00	1079.00	32370.00
					Total	997362.00
Schedule Schedule TA-TRD SOR Items						
Item- 16 TRD SOR Item						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	011010	6.a Supply (excluding copper wires &SPS) of over head equipment only	Kilometre	5.40	45358.00	244933.20
2	011020	6.a Erection including copper wires &SPS of over head equipment only manual	Kilometre	5.40	36843.00	198952.20
3	021010	3.a.ii Supply only for fabricated mast K,B, S series etc.	MT	57.00	99942.00	5696694.00
4	021020	3.b.i Supply of fabricated steel work other than masts	MT	47.00	104096.00	4892512.00
5	021030	3.b.i Erection of fabricated steel work other than masts by manual	MT	47.00	7339.00	344933.00
6	021040	3.c Supply of fabricated steel work(SPS).	MT	8.50	102019.00	867161.50
7	021050	3.c Erection of fabricated steel work(SPS).	MT	8.50	6111.00	51943.50
8	031010	2.a.i For Foundation and Plinth - Concrete in hard soil	cum	200.00	7036.00	1407200.00
9	031020	2.a.ii Concrete in rocky soil	cum	110.00	7624.00	838640.00
10	031030	2.b Concrete in other than hard soil and rock	cum	100.00	6987.00	698700.00
11	041010	1.a Preparation of designs and drawings for over head equipment and verification of Purchasers Engineering Plan.	Track Kilometre	3.50	10830.00	37905.00
12	041030	1.c preparation of station working rule diagram and working instruction	Each	2.00	7620.00	15240.00

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13	041040	3.a.i Erection of traction masts and main masts of switching stations, booster stations and L.T supply Transformer stations by manual	MT	37.00	5257.00	194509.00
14	041060	3.e Supply of a Guy rod assembly	Each	16.00	9891.00	158256.00
15	041070	3.e Erection of a Guy rod assembly	Each	16.00	571.00	9136.00
16	041100	4.ai.a Supply of a single bracket assembly	Each	160.00	20330.00	3252800.00
17	041110	4.ai.a Erection of a single bracket assembly	Each	160.00	1061.00	169760.00
18	041280	5.a.i Supply of mounting arrangements for span wire	Each	17.00	13393.00	227681.00
19	041290	5.a.i Erection of mounting arrangements for span wire	Each	17.00	921.00	15657.00
20	041300	5.ii Supply of a span wire	Metre	2490.00	612.00	1523880.00
21	041310	5.ii Erection of a span wire	Metre	2490.00	159.00	395910.00
22	041480	8.a.v Supply of regulating equipment(3 pulley type) with counter-weight assembly for conventional OHE.	Each	9.00	78838.00	709542.00
23	041490	8 . a . v Erection of regulating equipment(3 pulley type) with counter-weight assembly for conventional/composite OHE.	Each	9.00	2913.00	26217.00
24	041520	8.b.i Supply of materials for termination of Single conductor of overhead equipment or terminating wire.	Each	6.00	6974.00	41844.00
25	041530	8.b.i Erection of materials for termination of Single conductor of overhead equipment or terminating wire.	Each	6.00	1048.00	6288.00
26	041540	8.b.ii Supply of materials for termination of Double over head equipment conductor	Each	14.00	11823.00	165522.00
27	041550	8.b.ii Erection of materials for termination of Double over head equipment conductor	Each	14.00	748.00	10472.00
28	041660	9.a Supply of anticreep with galvanised steel wire	Each	5.00	22398.00	111990.00
29	041670	9 . a Erection of anticreep with galvanised steel wire	Each	5.00	1774.00	8870.00
30	041720	10.a Extra on item 6(a) for supply of additional fittings at a turnout, diamond crossing or overlap.	Each	6.00	6536.00	39216.00
31	041730	10.a Extra on item 6(a) for supply of additional fittings at a turnout, diamond crossing or overlap.	Each	6.00	839.00	5034.00
32	041780	11.a.i Supply of a composite cut insulator	Each	13.00	5272.00	68536.00
33	041790	11.a.i erection of a composite cut insulator	Each	13.00	567.00	7371.00
34	041820	11.b Supply of 25kV Post insulator	Each	31.00	6137.00	190247.00
35	041830	11.b erection of 25kV Post insulator	Each	31.00	492.00	15252.00
36	041880	12.a.i Supply of a section insulator assembly	Each	8.00	36887.00	295096.00
37	041890	12.a.i Erection of a section insulator assembly	Each	8.00	3159.00	25272.00
38	041940	13.a.i Supply of a 25kV single pole isolator without earth contact assembly.	Each	4.00	36415.00	145660.00
39	041950	13.a.i Erection of a 25kV single pole isolator without earth contact assembly.	Each	4.00	4000.00	16000.00

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40	042010	13.d Extra for supply of an earth contact assembly in an isolator	Each	2.00	8957.00	17914.00
41	042020	13.d Erection of an earth contact assembly in an isolator	Each	2.00	241.00	482.00
42	042070	15.a Supply of a copper jumper	Each	11.00	3077.00	33847.00
43	042080	15.a Erection of a copper jumper	Each	11.00	192.00	2112.00
44	042110	16.a Supply of a structure bond	Each	130.00	526.00	68380.00
45	042120	16.a Erection of a structure bond	Each	130.00	212.00	27560.00
46	042130	16.b Supply of longitudinal bond	Each	134.00	233.00	31222.00
47	042140	16.b Erection of longitudinal bond	Each	134.00	266.00	35644.00
48	042150	16.c Supply of transverse and special bond	Each	65.00	480.00	31200.00
49	042160	16.c Erection of transverse and special bond	Each	65.00	340.00	22100.00
50	042170	17.a Supply of a single earth electrode	Each	2.00	2262.00	4524.00
51	042180	17.a erection of a single earth electrode	Each	2.00	800.00	1600.00
52	043030	31.a Modification to erected equipment -Transfer of equipment from one mast or support to another	Each	16.00	1883.00	30128.00
53	043060	31.d Modification to erected equipment - Dismantling of overhead equipment	Kilometre	1.00	37511.00	37511.00
54	043080	31.f Splicing and extension of an anchored over head equipment	Each	7.00	7985.00	55895.00
55	043090	31.g Modification to erected equipment - Dismantling of a section insulator	Each	2.00	7443.00	14886.00
56	043110	31.i Modification to erected equipment - Dismantling of an isolator	Each	2.00	999.00	1998.00
57	043130	31.k Modification to erected equipment - Dismantlement of OHE mast/structure by cutting	Each	13.00	3768.00	48984.00
58	043170	31.o Modification to erected equipment - Erection of Temp, mast including cantilever assembly transfer of OHE to New mast and releasing the temp mast under power/non power block	Each	60.00	11819.00	709140.00
59	043180	31.p Modification to erected equipment - Releasing of portal Boom under power/non power block	Each	6.00	16102.00	96612.00
					Total	24402571.40
Item- 17	TRD SOR POWER BLOCK					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	011020	6.a Erection including copper wires &SPS of over head equipment only manual	Kilometre	5.40	36843.00	198952.20
2	021030	3.b.i Erection of fabricated steel work other than masts by manual	MT	47.00	7339.00	344933.00
3	021050	3.c Erection of fabricated steel work(SPS).	MT	8.50	6111.00	51943.50
4	041110	4.ai.a Erection of a single bracket assembly	Each	160.00	1061.00	169760.00
5	041290	5.a.i Erection of mounting arrangements for span wire	Each	17.00	921.00	15657.00
6	041530	8.b.i Erection of materials for termination of Single conductor of overhead equipment or terminating wire.	Each	6.00	1048.00	6288.00

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7	041730	10.a Extra on item 6(a) for supply of additional fittings at a turnout, diamond crossing or overlap.	Each	6.00	839.00	5034.00
8	041890	12.a.i Erection of a section insulator assembly	Each	8.00	3159.00	25272.00
9	043030	31.a Modification to erected equipment -Transfer of equipment from one mast or support to another	Each	16.00	1883.00	30128.00
10	043060	31.d Modification to erected equipment - Dismantling of overhead equipment	Kilometre	1.00	37511.00	37511.00
11	043080	31.f Splicing and extension of an anchored over head equipment	Each	7.00	7985.00	55895.00
12	043130	31.k Modification to erected equipment - Dismantlement of OHE mast/structure by cutting	Each	13.00	3768.00	48984.00
Total						990357.70
Schedule	Schedule TB-TRD Non SOR Items					
Item- 18	TRD Non SOR Items					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Loading/Unloading transportation and handing over of all type of materials etc. other than contractor material	MT/Km	1472.00	66.00	97152.00
2	2	Hiring of 15T Crane	Day	29.00	22000.00	638000.00
Total						735152.00

4. ELIGIBILITY CONDITIONS

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

Standard Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	(A) Financial Eligibility Criteria for the Works having advertised value above Rs.50.00 lakhs: The tenderer must have minimum average annual contractual turnover of V/N or 'V' whichever is less, where V= Advertised value of the tender in crores of Rupees N= Number of years prescribed for completion of work for which bids have been invited. The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover. Further, if tenderer is JV, "Financial Capacity" of the lead member of JV shall not be less than 51% of the financial eligibility criteria. (B) The Financial Eligibility of tenderer shall be evaluated based on the Clause-10.2, 10.5, Explanation for Clause-10 and other Clauses of Tender Form (Second Sheet) of Part-I of IRGCC-2022 amended by ACS if any and other conditions of tender documents. (C) Financial Eligibility of the JV and members of JV shall be evaluated based on the Clause-10.2, 10.5, 17.15.2 and other Clauses of Tender Form (Second Sheet) of Part-I of IRGCC-2022 amended by ACS if any and other conditions of tender documents. (D) The tenderer(s) shall submit scanned copy of following documents (i) Statement of Annual Contractual Turnover as per Proforma-E-1 duly certified by Chartered Accountant (ii) Audited Balance Sheet for last 03/04 years. (iii) Form 16A/26AS generated through TRACES of Income Tax Department of India if Work Experience Certificate for Technical Eligibility Criteria is from other than Govt. Organization. (iv) Any other document(s) required as per tender conditions for evaluation of Financial Eligibility of the tenderer. (v) If tenderer is JV firm, the tenderer shall submit all of these documents for each member of JV. (vi) If tenderer does not fulfil the Financial Eligibility Criteria, the offer of the tenderer shall be summarily rejected.	No	No	Allowed (Mandatory)

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1.1	<p>(A) Bid Capacity Criteria for tenders having advertised value above Rs. 10.0 Crores: The tenderer will be qualified only if its available bid capacity is equal to or more than the total bid value of the present tender. The available bid capacity shall be calculated as under: Available Bid Capacity = $[A \times N \times 2] - 0.33 \times N \times B$ Where, A= Maximum value of construction works executed and payment received in any one of the previous three financial years or the current financial year (up to date of inviting tender), taking into account the completed as well as works in progress. N= Number of years prescribed for completion of work for which bid has been invited. B= Existing commitments and balance amount of ongoing works with tenderer as per the prescribed proforma of Railway for statement of all works in progress and also the works which are awarded to tenderer but yet not started upto the date of inviting of tender. (B) Bid Capacity of tenderer shall be evaluated based on the Clause-10.3, 10.5, Explanation for Clause-10, Annexure-VI and other Clauses of Tender Form (Second Sheet) of Part-I of IRGCC-2022 amended by ACS if any and other conditions of tender documents. (C) Bid Capacity of the JV and members of JV shall be evaluated based on the Clause-10.3, 10.5, 17.15.3 and other Clauses of Tender Form (Second Sheet) of Part-I of IRGCC-2022 amended by ACS if any and other conditions of tender documents. (D) The tenderer(s) shall submit scanned copy of following documents (i) Statement of Bid Capacity as per Proforma-E2, E2(a) & E2(b) duly certified by Chartered Accountant (ii) Any other document(s) required as per tender conditions for evaluation of Bid Capacity of the tenderer. (iii) If tenderer is JV firm, the tenderer shall submit all of these documents for each member of JV. (iv) If tenderer does not fulfil the Bid Capacity, the offer of the tenderer shall be summarily rejected.</p>	No	No	Allowed (Mandatory)
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Standard Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
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**HUBLI DIVISION-GATI SHAKTI/SOUTH WESTERN RLY
TENDER DOCUMENT**

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1	<p>(A) Technical Eligibility Criteria for Non-Composite Works having advertised value above Rs.50.00 lakhs: The tenderer must have successfully completed or substantially completed any of the following categories of work(s) during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: (i) Three similar works each costing not less than the amount equal to 30% of advertised value of the tender, OR (ii) Two similar works each costing not less than the amount equal to 40% of advertised value of the tender, OR (iii) One similar work each costing not less than the amount equal to 60% of advertised value of the tender. Further, if tenderer is JV, the technical eligibility for the work shall be satisfied by either the 'JV in its own name & style' or 'Lead member of the JV'. Each other (non-lead) member(s) of JV, who is/ are not satisfying the technical eligibility for the work shall have technical capacity of minimum 10% of the cost of work i.e., each non-lead member of JV member must have satisfactorily completed or substantially completed during the last 07 (seven) years, ending last day of month previous to the one in which tender is invited, one similar single work for a minimum of 10% of advertised value of the tender (B) Technical Eligibility Criteria for Composite Works having advertised value above Rs.50.00 lakhs: (B1)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 each component of tender, OR (ii) Two similar works each costing not less than the amount equal to 40% of advertised value of each component of tender, OR (iii) One similar work each costing not less than the amount equal to 60% of advertised value of each component of tender. (B2) The technical eligibility for major component [As per para10.1(b)(1) of IRGCC April2022] shall be satisfied by the tenderer or by the JV (in its own name and style) or by lead member of the JV. (B3)The technical eligibility for other components[As per para 10.1(b)(1) of IRGCCApril2022] shall be satisfied by the tenderer or by the JV (in its own name and style) or by any member of the JV(OR) The technical eligibility for other components [As per para 10.1(b)(3) of IRGCC-April2022) and 7(a)of IRGCC April2022 (Part-II)]shall be satisfied by sub contractor. (B4) Each other (non-lead) member(s) of JV, who is/ are not satisfying the technical eligibility for any component of the work shall have technical capacity of minimum 10% of the cost of any component of work mentioned in technical eligibility criteria. i.e., each other (nonlead) member of must have satisfactorily completed or substantially completed during the last 07 (seven) years, ending last day of month previous to the one in which tender is invited, one similar single work for a minimum of 10% of cost of any component of work mentioned in technical eligibility criteria.</p>	No	No	Allowed (Mandatory)
1.1	<p>(C) Technical Eligibility of tenderer shall be evaluated based on the clause-10.1, 10.5, Explanation for Clause-10 and other Clauses of Tender Form (Second Sheet) of Part-I of IRGCC-2022 amended by ACS if any and other conditions of tender documents. (D) Technical Eligibility of the JV Firm and Members of JV Firm shall be evaluated based on the Clause-10.1, 10.5, 17.15.1 and other Clauses of Tender Form (Second Sheet) of Part-I of IRGCC-2022 amended by ACS if any and other conditions of tender documents (E) The tenderer(s) shall submit scanned copy of following documents (i) Statement of Similar Work done as per Proforma: E-3 (ii) Work Experience Certificate issued by Employer/ Client. (iii) Form 16A/26AS generated through TRACES of Income Tax Department of India if Work Experience Certificate for Technical Eligibility Criteria is from other than Govt. Organization. (iv) Any other document(s) required as per tender conditions for evaluation of Financial Eligibility of the tenderer. (v) If tenderer is JV firm, the tenderer shall submit all of these documents for each member of JV Firm.</p>	No	No	Allowed (Mandatory)

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1.2	(A) In case tenderer propose to subcontract component(s) of the work, The subcontractor must have successfully completed at least one similar work costing not less than 35% value of work in last 5 (Five) years, ending last day of month previous to the one in which tender is invited through a works contract, (B) Technical Eligibility of Sub-Contractor shall be evaluated based on the clause-10.5, Explanation for Clause-10 and other Clauses of Tender Form (Second Sheet) of Part-I of IRGCC-2022 amended by ACS if any, and Clause-7 of Part-II of IRGCC-2022 amended by ACS if any and other conditions of tender documents. (C) The tenderer shall submit (i) The agreement with the subcontractor on stamp paper duly notarized. The tenderer shall submit the (ii) Details of Similar Work done by proposed Sub-Contractor(s) as per Proforma-E-3 (iii) Work Experience Certificate issued by Employer to proposed Sub-Contractor. (iv) Form 16A/26AS generated through TRACES of Income Tax Department of India if Work Experience Certificate for Technical Eligibility Criteria is from other than Govt. Organization. (v) Any other document(s) required as per tender conditions for evaluation of Technical Eligibility of the Sub-Contractor. Note: The total value of subletting shall not be more than 40 % of total advertised value of tender as per clause 7 of IRGCC-2022.	No	No	Allowed (Mandatory)
1.3	In case single completion certificate containing more than one component is submitted by the tenderer, value of each component is to be specified in that completion certificate. In case tenderer fails to submit completion certificate with component wise value bifurcation of work for evaluation of technical eligibility, the certificate shall be treated Incomplete	No	No	Not Allowed
1.4	Separate completed works of minimum required values for each component shall also be considered for fulfilment of technical eligibility criteria.	No	No	Not Allowed
1.5	Work experience certificate from private individual shall not be considered. However, in addition to work experience certificates issued by any Govt. Organisation, work experience certificate issued by Public listed company having average annual turnover of Rs 500 crore and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, incorporated/registered at least 5 years prior to the date of closing of tender, shall also be considered provided the work experience certificate has been issued by a person authorized by the Public listed company to issue such certificates. In case tenderer submits work experience certificate issued by public listed company, the tenderer shall also submit along with work experience certificate, the relevant copy of work order, bill of quantities, bill wise details of payment received duly certified by Chartered Accountant, TDS certificates for all payments received and copy of final/last bill paid by company in support of above work experience certificate	No	No	Not Allowed
1.6	If tenderer does not fulfil the Technical Eligibility Criteria, The offer of the tenderer shall be summarily rejected.	No	No	Not Allowed
1.7	Defination of Similar Work :- Component No.1 [Major component] for Signal, [Value Rs.9,58,06,496/-] Execution Signalling works [EI/RR/Auto Block sig/IBS/IBH] either indoor or outdoor or both	No	No	Not Allowed
1.7.1	Defination of Similar Work :- Component No.2 for Building work, [Value Rs.8,99,92,822/-] Any civil engineering work involving building construction works	No	No	Not Allowed
1.7.2	Defination of Similar Work :- Component No.3 for Earth work and Minor Bridges, [Value Rs.3,87,46,509/-] Work of Execution of earthwork in formation and construction of bridges	No	No	Not Allowed
1.7.3	Defination of Similar Work :- Component No.4 for Electrical Traction, [Value Rs.2,61,28,081/-] Design, supply, erection, testing and commissioning of 50 Hz, single phase 25kV AC OHE system OR Stringing [including design supply as applicable] of 66kV and above rating transmission lines including erection of transmission towers and foundation work for SEBs/DISCOMS/Transmission authorities/PGCIL/NTPC	No	No	Not Allowed
1.7.4	Defination of Similar Work :- Component No.5 for Major Bridge, [Value Rs.1,90,69,067/-] Any Bridge work involving open/ pile / well foundation with PSC/RCC super structure of RCC Boxes	No	No	Not Allowed
1.7.5	Defination of Similar Work :- Component No.6 for Track work, [Value Rs.1,69,72,420/-] Any permanent way work of track linking and / or Rail renewal and / or Sleeper renewal and / or turnout renewal and / or track maintenance work.	No	No	Not Allowed

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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	Partnership firm/Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc. Please submit a certificate in the prescribed format (please download the format from the link given below). Non submission of the certificate, or submission of certificate either not properly filled in, or in a format other than the prescribed format shall lead to summary rejection of your offer. (Click here to download the Format of Self Certification)

5. COMPLIANCE

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

Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The tenderer participating in the tender as Propriety Firm/ Partnership Firm/ Company/ HUF/ LLP/ Society/ Trust/ JV shall submit all the credentials as mentioned below. Further, the tenderer should examine carefully the Regulation For Tender and Contract (Part-I of IRGCC-2022) and all the Advance Correction Slip (ACS) of IRGCC-2022 issued from time to time for required documents to be submitted by the tenderer. Non submission of tenderer credential, the offer of the tenderer shall considered invalid and shall be rejected.	No	No	Not Allowed
1.1	If tenderer is Proprietary Firm / Proprietary Concern, the tenderers shall submit with his offer(i) All documents in terms of Para 10 of the Tender Form (Second Sheet) IRSGCC - April-2022- Part-I.(ii)All other documents as per Clause 14 of IRSGCC - April2022- Part-1	No	No	Allowed (Mandatory)

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1.2	In case of Partnership Firm, the tenderer(s) shall scan and submit with their offer, the following documents: (i) A notarized copy of partnership deed or a copy of partnership deed registered with registrar. (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 submission of bids, either in their individual capacity or in any firm/LLP in which they were / are partners/members. Any Concealment / wrong information in regard to above shall make the bid ineligible or the contract shall be determined under Clause 62 of the Standard General Conditions of Contract. (iv) All documents in terms of Para 10 of the Tender Form (Second Sheet) IRSGCC - April-2022-Part-I.(v)All other documents as per Clause 14 and 18 of IRSGCC - April2022- Part-1	No	No	Allowed (Mandatory)
1.3	In case, the Tenderer is a Company, the tenderer(s) shall scan and submit with their offer, the following documents: (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) All documents in terms of Para 10 of the Tender Form (Second Sheet) IRSGCC - April-2022-Part-I (v)All other documents as per Clause 14 of IRSGCC - April2022- Part-1	No	No	Allowed (Mandatory)
1.4	In case the Tenderer is HUF, the following documents shall be submitted along with the tender: (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 General Conditions of Contract. (iii) All documents in terms of Para 10 of the Tender Form (Second Sheet) IRSGCC - April-2022-Part-I(iv)All other documents as per Clause 14 of IRSGCC - April2022- Part-1	No	No	Allowed (Mandatory)
1.5	In case tenderer is a LLP Firm registered under LLP Act-2008, the following documents shall be submitted: (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 documents in terms of Para 10 of the Tender Form (Second Sheet) IRSGCC - April-2022-Part-I(vi)All other documents as per Clause 14 of IRSGCC - April2022- Part-1	No	No	Allowed (Mandatory)
1.6	In case the Tenderer is a Registered Society & Registered Trust, the following documents shall be submitted: (i) A copy of the 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) Copy of rules and regulations of the society (v)All other documents as per Clause 14 of IRSGCC - April2022- Part-1	No	No	Allowed (Mandatory)

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1.7	If the tenderer is a JV, the tenderer(s) shall submit with their offer the following documents:	No	No	Not Allowed
1.7.1	A copy of Memorandum of Understanding (MoU) duly executed by the JV members on a stamp paper, shall be submitted by the JV along with the tender. The complete details of the members of the JV, their share and responsibility in the JV etc. particularly with reference to financial, technical and other obligations shall be furnished in the MoU. Joint Venture members in the JV MoU shall authorize Lead member on behalf of the Joint Venture to deal with the contract, sign the agreement or enter into contract in respect of the said tender, to receive payment, to witness joint measurement of work done, to sign measurement books and similar such action in respect of the said tender/contract. All notices/correspondences with respect to the contract would be sent only to this authorized member of the JV	No	No	Allowed (Mandatory)
1.7.2	The tenderer shall also submit a copy of notarized Power of Attorney to submit the tenderer on behalf of JV.	No	No	Allowed (Mandatory)
1.7.3	In case one or more of the members of the JV is/are Partnership firm(s), following documents shall be submitted: (i) A notarized copy of the Partnership Deed or Copy of partnership deed registered with registrar , (ii)A copy of consent of all the partners or individual authorized by partnership firm, to enter into the Joint Venture Agreement on a stamp paper, (iii)A notarized or registered copy of Power of Attorney in favour of the individual to sign the MOU/JV Agreement on behalf of the partnership firm and create liability against the firm. (iv) 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 submission of bids, either in their individual capacity or in any firm/LLP in which they were / are partners/members. Any Concealment / wrong information in regard to above shall make the bid ineligible or the contract shall be determined under Clause 62 of the Standard General Conditions of Contract	No	No	Allowed (Mandatory)
1.7.4	In case one or more members is/are Proprietary Firm or HUF, the following documents shall be enclosed: (i) A copy of notarized affidavit on Stamp Paper declaring that his concern is a proprietary concern and he is sole proprietor of the concern or he who is signing the affidavit 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.	No	No	Allowed (Mandatory)
1.7.5	In case one or more members of the JV is/are Companies, the following documents shall be submitted: (i)A copy of resolutions of the Directors of the Company, permitting the company to enter into a JV agreement, (ii)The copies of MOA (Memorandum of Association) / AOA (Articles of Association) of the company (iii)A copy of Certificate of Incorporation (iv)A copy of Authorization/copy of Power of Attorney issued by the Company (backed by the resolution of Board of Directors) in favour of the individual to sign the tender, sign MOU/JV Agreement on behalf of the company and create liability against the company	No	No	Allowed (Mandatory)
1.7.6	In case one or more members of the JV is/are LLP firm/s, the following documents shall be submitted: (i)A copy of LLP Agreement (ii)A copy of Certificate of Incorporation of LLP(iii) A copy of resolution passed by partners of LLP firm, permitting the Firm to enter into a JV agreement.(iv) A copy of Authorization /copy of Power of Attorney issued by the LLP firm (backed by resolution passed by the Partners) in favour of the individual, to sign the tender and/or sign the MOU/ JV agreement on behalf of the LLP and create liability against the LLP. (v) 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. Any Concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the Standard General Conditions of Contract	No	No	Allowed (Mandatory)

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1.7.7	In case one or more members of the JV is/are Society/s or Trust/s, the following documents shall be submitted: (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	No	No	Allowed (Mandatory)
1.7.8	All Other documents as mentioned in terms of para 10 of Tender form (2nd sheet) of IRSGCC-April-2022 Part-I.	No	No	Allowed (Optional)
1.7.9	All other documents as per Clause 14, 17 & 18 of IRSGCC-April 2022 -Part 1 are to be submitted.	No	No	Allowed (Optional)
1.8	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.	No	No	Allowed (Mandatory)
1.9	All Other documents as mentioned in terms of para 10 of Tender form (2nd sheet) of IRSGCC-April-2022 Part-I.	No	No	Allowed (Optional)
1.10	All other documents as per Clause 14, 17 & 18 of IRSGCC-April 2022 -Part 1 are to be submitted.	No	No	Allowed (Optional)
2	In case the tenderer is proposing sub contract for the component(s) of the work, the tenderer shall upload Scanned copy/copies of formal agreement duly executed and notarised by the main tenderer/contractor with the subcontractor for the component(s) of work in a composite work proposed to be executed through subcontractor(s).	No	No	Allowed (Mandatory)
3	The tenderer shall submit following documents towards compliances for technical bid. In case of non-submission of below documents, the offer submitted by the tenderer shall be considered as Invalid and shall be rejected summarily.	No	No	Not Allowed
3.1	(A) The tenderer shall submit the bid security as per Clause-5 of Part-1 of IRGCC-2022, Clause-6 of Tender Form (Second Sheet) of Part-1 of IRGCC-2022 and Clause-17.5 of Tender Form (Second Sheet) of Part-1 of IRGCC-2022 amended by ACS. The offer shall be summarily rejected in case of non-submission of bid security until unless specifically provided in the tender documents. In case, manual bank guarantee/ exemption claimed, the tenderer shall submit scanned copy of i) Bank Guarantee Bond as per Annexure- VIA valid for a period of 90days beyond the bid validity period. OR i) Registration Certificate of Start-up firms issued by appropriate authority and recognized by Department of Industrial Policy and Promotion (DIPP) towards exemption of full BID Security (if applicable). OR iii) Registration Certificate with registration number by Labour Co-operative Society issued by appropriate authority for payment of 50% BID Security (if applicable). (B) The original bank guarantee should be delivered in person to the official nominated as indicated in the tender document before closing date for submission of bids i.e. excluding the date of submission of bids.	No	No	Allowed (Mandatory)
3.2	The tenderer shall submit General Information as per Pro forma :T-1 along with copy of PAN & GST Registration certificate.	No	No	Allowed (Mandatory)

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3.3	The tenderer shall submit the details of Employment of Retired gazetted officer or Family member(s) of gazetted officer as per proforma-T-2	No	No	Allowed (Mandatory)
3.4	The tenderer shall submit the Certificate for Minimum Local Content as per proforma-T-3	No	No	Allowed (Mandatory)
3.5	Uploading of Test report of ballast as per proforma-T-4. (If the tender scheduled qty exceeds 2000 cum or 10 % of advertisement value whichever is less.)	Yes	Yes	Allowed (Mandatory)
4	The tenderer shall submit for proforma of Tenders along with the requisite documentation in proforma.	No	No	Not Allowed
4.1	Statement of Annual Contractual Turnover as per Proforma-E-1 duly certified by Chartered Accountant	No	No	Allowed (Mandatory)
4.2	Statement of Bid Capacity as per Proforma-E2	No	No	Allowed (Mandatory)
4.2.1	Statement of Bid Capacity as per Proforma E2(a)	No	No	Allowed (Mandatory)
4.2.2	Statement of Bid Capacity as per Proforma E2(b)	No	No	Allowed (Mandatory)
4.3	Statement of Similar Work done as per Proforma: E-3	No	No	Allowed (Mandatory)
4.3.1	Work Experience Certificate(s) issued by Employer/ Client as per Proforma:E-3(a)	No	No	Allowed (Mandatory)
5	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
1	In case of Bid security submitted in the form of Bank guarantee bond, a scanned copy of the Bank Guarantee bond shall be uploaded on e-procurement portal (IREPS) while applying to the tender. The Bank Guarantee Shall be drawn in favor of FA&CAO/Construction/Bangalore cantonment and the original Bank guarantee bond should be delivered in person Ch.OS/Office of CPM/Gati shakti /Hubballi before closing date for submission of bids (i.e. excluding the last date off submission of bids).	No	No	Not Allowed
2	Non submission of scanned copy of Bank Guarantee bond 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	No	No	Not Allowed

Special Conditions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	All rates shall be inclusive of all taxes, duties, charges, royalties etc. as applicable from time to time. In this regard tenderers may refer IRSGCC April2022 with latest correction slips including correction slips issued from time to time attached with Tender Document. (b)Royalty charges will be regulated as per Special Conditions of Contract attached with Tender Document.	No	No	Not Allowed
2	Tenderers are advised to submit scanned copies of all documents including notarized documents. The responsibility of submitting the correct documents lies with the tenderer. Tenderers may ensure that all scanned and uploaded documents are readable and that there are no errors/ omissions/discrepancies / over-writings anywhere in such documents before submitting online. Railway will not be responsible for any incomplete/erroneous documents uploaded	No	No	Not Allowed

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3	No post tender correspondence will be permitted and the tender shall be decided based on the documents submitted / attached with the offer only. However, Railway reserves the right to verify / seek for any clarification on the documents/credentials already submitted by the tenderer along with the offer	No	No	Not Allowed
4	An offer shall become invalid and shall be summarily rejected: - (i)if the Bid Security not complied as per GCC-2022 (ii)if the offer is not digitally signed by the tenderer/by the Attorney/ by the person authorized by the tenderer to sign and submit the tender on his/their behalf. (iii)if any individual / Proprietor /Partnership Firm / Company /JV Firm/HUF/Society etc. uploads more than one offer either in his/their individual capacity or as a Proprietor or as a Partner/Member of Partnership Firm / JV Firm / HUF / Society etc. or as a Director of any Company, etc	No	No	Not Allowed
5	An offer shall become invalid and get summarily rejected if the following documents are not submitted /attached with offer mentioned in the tender documents: - (i)Documents as applicable in case of Proprietary concern/Partnership firm / JV Firm / Company/HUF/Society/LLP Firm, etc. ii) Ballast test certificate , if applicable (iii)any other document required for evaluation of the bid.	No	No	Not Allowed
6	(A) The tenderer shall not add any condition(s) on their own anywhere in their offer including documents uploaded with the offer. Any such conditions if stated and are in violation of the Railways Tender conditions, may lead to summarily rejection of the offer. Railway reserves the right to reject such offers summarily without assigning any reasons whatsoever.(B) An offer shall become invalid get summarily rejected if the tenderer adds any condition on his/their own (anywhere in the e-offer), which is in violation of the Railway's Tender Conditions	No	No	Not Allowed
7	Even for the working contractors of this Railway, the onus of establishing the credentials of the tenderers from the office records or otherwise does not lie with the Railway. Railway shall evaluate the offer only from the certificates/documents which are submitted / attached with the offer.	No	No	Not Allowed
8	Railway reserves the right to verify/seek clarification from authority/professional who has issued Certificate towards Technical/Financial eligibility of the tenderer.	No	No	Not Allowed
9	Railway reserves the right to cancel the tender without assigning any reason thereof.	No	No	Not Allowed
10	Railways reserve the right to reject any or all offers without assigning any reason thereof	No	No	Not Allowed
11	The decision of the Railway regarding the corrections/suitability of the certificates is final and binding on the tenderer. The tenderer shall not have any claim whatsoever in this regard.	No	No	Not Allowed
12	In case of advertised tender value is more than Rs.50 Crores, Electronic Reverse Auction(e-RA) method will be applicable as per guidelines issued by Railway Board vide Lr.No.2017/Trans/01/Policy/Pt-D dated 28.03.2018 (Copy attached in the list of documents)and amendment thereof	No	No	Not Allowed
13	The tenderer after award of the work shall submit the Programme Chart as per appendix-1, details of Site Office and Deployment of Qualified Engineers/ Personnel as per appendix-2 and submit Design Documents, Drawing & Route Plans as per appendix-3.	No	No	Not Allowed
14	The tenderers are advised to visit the site of work in their own interest and acquaint themselves with the site conditions and expected quantum of work. The rate should be quoted duly considering the site conditions. The tenderer shall not have any claim later whatsoever in this regard.	No	No	Not Allowed

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15	DRAWINGS FOR WORKS: The percentage rates for the schedule items and itemized rates for the non-scheduled items quoted by the tenderer as may be accepted by the railways will, hold good irrespective of any changes, modifications, alterations, additions, omissions in the locations of structures and detailed drawings, specifications and /or the manner of executing the work. It should be specifically noted that some of the detailed drawings may not have been finalized by the Railway and will, therefore, be supplied to the contractor as and when they are finalized on demand. No compensation whatsoever on this account shall be payable by the Railway Administration. No claim whatsoever will be entertained by the Railway on account of any delay or hold up of the works arising out of delay in approval of drawings, changes, modifications, alterations, additions, omission and the site layout plans or detailed drawings and design and /or late supply of such materials as are required to be arranged by the Railway or due to any other factor on Railway Accounts.	No	No	Not Allowed
16	Corrigendum Notice: For the purpose of Corrigendum in the tender, the Notice Inviting Tender (NIT) period is split as under: (a) Advertisement period: Time during which all information pertaining to tender shall be available but offers cannot be submitted. (b) Offer submission period: Fifteen days prior to opening of tender during which tenderers can submit their offers. Issue of corrigendum will be done only during Advertisement period. No corrigendum will be issued during offer submission period. However, the tenderers may note that for cases requiring corrigendum during offer submission period, the tender under the said Tender Notice may be cancelled at the discretion of Railways and shall be re-tendered. (c) Date of inviting tender shall be the date of publishing tender notice on IREPS website if tender is published on website or the date of publication in newspaper in case tender is not published on website	No	No	Not Allowed

Custom

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Price Variation Clause: As per IRGCC-2022 and ACS.	No	No	Not Allowed
2	Maintenance Period:03 (Three years)	No	No	Not Allowed

6. Documents attached with tender

S.No.	Document Name	Document Description
1	IRGCC2022.pdf	IR GCC 2022
2	GCCACS-1.pdf	ACS 1 to IR GCC 2022
3	GCCACS-2.pdf	ACS 2 to IR GCC 2022
4	GCCACS-3.pdf	ACS 3 to IR GCC 2022
5	GCCACS-4.pdf	ACS 4 to IR GCC 2022
6	GCCACS-5.pdf	ACS 5 to IR GCC 2022
7	GCCACS-6.pdf	ACS 6 to IR GCC 2022
8	GCCACS-7.pdf	ACS 7 to IR GCC 2022
9	GCCACS-8.pdf	ACS 8 to IR GCC 2022
10	GCCACS-9.pdf	ACS 9 to IR GCC 2022
11	GCCACS-10.pdf	ACS 10 to IR GCC 2022
12	GCCACS-11.pdf	ACS 11 to IR GCC 2022
13	SCCGS2024v3.pdf	Special conditions of contract SCC
14	Safety.pdf	Safety
15	JPOforcablecut.pdf	JPO for earth work
16	WebLinkforTechSpecUSSR_DSR.pdf	Weblink for DSR USSOR SPEC
17	TSTELE.pdf	Technical Specification Telecom
18	TSSIGANAL.pdf	Technical Specification Signal
19	TechnicalSpecificationElectricalGeneralV2.pdf	Technical Specification Electrical

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20	TSELETRACTION.pdf	TS Electrical Traction
21	ST-26-GSU-UBL.pdf	Technical Specification Steel
22	TenderformsOBM.pdf	Tender forms
23	GADOBMStn.pdf	GAD OBM STATION BUILDING
24	ESPOBMphII.pdf	ESP OBM
25	ApendixtoTenderOBMR.pdf	Apendix to Tenders

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: P KAMESWARA VARMA

Designation : Dy.CE/GatiShakti/UBL