

**SER-CONST-HQ-ENGG/SOUTH EASTERN RLY
TENDER DOCUMENT**

Tender No: 4640-GRC-CE-C-SO-23-2026

Closing Date/Time: 28/07/2026 12:00

CE/CON acting for and on behalf of The President of India invites E-Tenders against Tender No **4640-GRC-CE-C-SO-23-2026** Closing Date/Time 28/07/2026 12:00 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	Construction of Road Over Bridge, Approach Road, Quarters etc. in connection of Nimpura Reception Yard-Kharagpur 3rd line work under jurisdiction of Dy CE/Con/II/Kharagpur, S. E. Railway, Kharagpur.		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Two Packet System
Tender Closing Date Time	28/07/2026 12:00	Date Time Of Uploading Tender	30/06/2026 13:49
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	653065255.00	Tendering Section	CE/CON/S
Bidding Style	Single Rate for Each Schedule	Bidding Unit	
Earnest Money (Rs.)	13061300.00	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	14/07/2026		
Are JV allowed to bid	Yes	Number of JV Member Allowed	3
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-Execution of all work as per schedule							3269992.63	Above/ Below/P ar
1	Please see Item Breakup for details.				2988478.00	9.42	3269992.63	
	Description:- Earthwork under SERUSSOR-2021							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () B-Execution of all work as per schedule							345758846.33	Above/ Below/P ar
2	Please see Item Breakup for details.				333454379.72	3.69	345758846.33	
	Description:- Bridge Works - Substructure, Bridge Works - Super Structure (RCC), Bridge Works - Super Structure (Steel), Bridge Works - Miscellaneous under SERUSSOR-2021							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () C-Execution of all work as per schedule							75913.84	Above/ Below/P ar
3	Please see Item Breakup for details.				70031.22	8.40	75913.84	
	Description:- Rails, Sleepers and Fittings Renewal, Turnouts and Renewals, Deep Screening and Ballast Related Activities, Welding Activities, Reconditioning of Points and Crossings, Formation Rehabilitation, Activities at Construction Sites, Maintenance Activities, Testing of Rails and other Components, Heavy Track Machines, Small Track Machines, Handling of Materials, Level Crossings, Bridge Related Activities, Supply of P.Way Materials, Miscellaneous Items under SERUSSOR-2021							

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Schedule () D-Execution of all work as per schedule							220176766.13	Above/ Below/P ar
4	Please see Item Breakup for details.				191458057.50	15.00	220176766.13	
	Description:- Building, Road, Drain etc. under DSR-2023							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () E-Execution of all work as per schedule							44312036.24	Above/ Below/P ar
5	Please see Item Breakup for details.				44312036.24	AT Par	44312036.24	
	Description:- Non Schedule Items							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () F-Execution of all work as per schedule							779531.65	Above/ Below/P ar
6	Please see Item Breakup for details.				779531.65	AT Par	779531.65	
	Description:- Drawing & Design							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () G-Execution of all work as per schedule							1079992.95	Above/ Below/P ar
7	Please see Item Breakup for details.				1079992.95	AT Par	1079992.95	
	Description:- Horticulture & Landscaping under DSR HORTICULTURE-2020							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () H-Execution of all work as per schedule							7930022.00	Above/ Below/P ar
8	Please see Item Breakup for details.				7930022.00	AT Par	7930022.00	
	Description:- Supply of General Services Items							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () I-Execution of all work as per schedule							8906441.00	Above/ Below/P ar
9	Please see Item Breakup for details.				8906441.00	AT Par	8906441.00	
	Description:- Erection of General Services Items							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () J-Execution of all work as per schedule							2827500.00	Above/ Below/P ar
10	Please see Item Breakup for details.				2827500.00	AT Par	2827500.00	
	Description:- Earthwork & Foundation for OHE							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () K-Execution of all work as per schedule							12220553.00	Above/ Below/P ar
11	Please see Item Breakup for details.				12220553.00	AT Par	12220553.00	
	Description:- S&T SOR Execution							

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Schedule () L-Execution of all work as per schedule							2138650.00	Above/ Below/P ar
12	Please see Item Breakup for details.				2138650.00	AT Par	2138650.00	
	Description:- S&T SOR Micro Tunnelling Execution							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () M-Execution of all work as per schedule							1899949.73	Above/ Below/P ar
13	Please see Item Breakup for details.				1899949.73	AT Par	1899949.73	
	Description:- S&T Non-SOR Digital Cable Route Locator and Cable Route Planning							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () N-Execution of all work as per schedule							1207472.00	Above/ Below/P ar
14	Please see Item Breakup for details.				1207472.00	AT Par	1207472.00	
	Description:- S&T SOR Supply							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () O-Execution of all work as per schedule							481587.50	Above/ Below/P ar
15	Please see Item Breakup for details.				481587.50	AT Par	481587.50	
	Description:- S&T Non SOR Supply							

3. ITEM BREAKUP

Schedule	Schedule A-Execution of all work as per schedule						
Item- 1	Earthwork under SERUSSOR-2021						
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	011032	Using Soil Class SQ2	cum	5000.00	253.42	1267100.00
		Providing portable fencing along running track where work is to be done in close vicinity of track, maintaining during execution of work and removing after completion of the work as per direction of the Engineer. Fencing shall consist of self supporting steel angles of size 50mm x 50mm x 6mm, 1.5m long provided with hooks etc. and embedded in CC 1:2:4 block of size 0.23m x 0.23m x 0.23m placed at c/c distance of 2m along track. 12mm dia rods in three horizontal layers shall be tack welded with angle posts. Note : Released material will be property of the contractor after completion of work. Cost of cement required for CC blocks shall be paid separately.				

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2	013041	With provision of one 50mm wide retro-reflective tape in horizontal direction, duly secured/tight with vertical posts.	Metre	400.00	215.48	86192.00
3	013060	Supplying, driving and erecting in all types of soils, hard wood pile 5m to 7m long without joint, 125mm average dia. for protection of bank slope including two coats of coal tar paint complete, as directed. Note: Payment will be made as per actual driven length of pile.	Metre	900.00	190.40	171360.00
4	013070	Driving rails 90R/52 Kg section below average ground level within the slope/toe of embankment including making of nose with contractor's own arrangement complete in all respect Note: Payment will be made as per actual driven length of rail which will be supplied free by Railways at the site of work.	Metre	3000.00	108.07	324210.00
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	1200.00	949.68	1139616.00
					Total	2988478.00
Schedule	Schedule B-Execution of all work as per schedule					
Item- 2	Bridge Works - Substructure, Bridge Works - Super Structure (RCC), Bridge Works - Super Structure (Steel), Bridge Works - Miscellaneous under SERUSSOR-2021					
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	230.00	1441.73	331597.90
2	021012	10m to 20m	Metre	230.00	1585.91	364759.30
3	021013	20m to 30m	Metre	230.00	1730.07	397916.10

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4	021014	30m to 40m	Metre	115.00	1802.18	207250.70
		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	230.00	4325.20	994796.00
6	021052	10m to 20m	Metre	230.00	4613.54	1061114.20
7	021053	20m to 30m	Metre	230.00	4901.90	1127437.00
		Conducting in-situ full size Plate Load Test (PLT) at selected location as per IS:1888 including making loading arrangements & casting of RCC/cast in-situ concrete footing as per codal provisions including excavation and refilling of trial pit.				
8	021061	Plate size 30cm x 30cm	Each	3.00	20738.03	62214.09
9	021062	Plate size 45cm x 45cm	Each	3.00	25420.82	76262.46
10	021063	Plate size 60cm x 60cm	Each	23.00	29769.11	684689.53
11	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	430.00	130.80	56244.00
12	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	430.00	144.18	61997.40
13	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	430.00	751.44	323119.20
14	021140	Collection of water samples at required intervals	Each	130.00	216.26	28113.80
		Conducting laboratory Tests on collected soil samples as per relevant IS code				
15	021151	Moisture Content/Dry Density	Each	430.00	360.44	154989.20
16	021152	Atterberg Limits	Each	220.00	865.04	190308.80
17	021153	Specific Gravity	Each	130.00	384.46	49979.80
18	021154	Grain size analysis including Hydrometer analysis	Each	130.00	706.46	91839.80
19	021155	Direct Shear Test	Each	130.00	2847.43	370165.90
20	021156	Natural Density	Each	430.00	384.46	165317.80
21	021157	Consolidation Test	Each	130.00	2883.47	374851.10

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22	021158	Unconfined Compression Test	Each	130.00	2214.50	287885.00
23	021159	Tri-axial Test	Each	90.00	2214.50	199305.00
		Conducting Laboratory tests on collected ROCK SAMPLES as per relevant IS code				
24	021161	Density Test	Each	180.00	480.59	86506.20
25	021162	Water Absorption & Porosity	Each	50.00	360.44	18022.00
26	021163	Hardness	Each	30.00	432.52	12975.60
27	021164	Unconfined Compression Test	Each	50.00	2306.78	115339.00
28	021165	Point Load Test	Each	90.00	1311.98	118078.20
29	021166	Modulus of Elasticity	Each	20.00	6694.25	133885.00
30	021167	Abrasion Testing	Each	20.00	1545.53	30910.60
31	021180	Conducting chemical analysis of soil samples to determine aggressiveness in relation to attack on concrete / reinforcement including determination of pH value	Each	130.00	4829.81	627875.30
		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.				
32	022011	All kinds of soils	cum	5270.00	205.63	1083670.10
33	022012	Soft rock (not requiring blasting)	cum	110.00	427.87	47065.70
34	022014	Hard rock (blasting prohibited)	cum	110.00	1184.98	130347.80

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		Providing and laying in position Plain cement concrete of specified Nominal Mix for 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 :				
35	022032	1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	cum	140.00	2473.31	346263.40
36	022034	1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size)	cum	205.00	2527.54	518145.70
37	022040	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 in RCC raft foundation & Pile cap 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.	cum	3760.00	2618.75	9846500.00

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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.				
38	022051	Abutment & Pier	cum	1030.00	2699.22	2780196.60
39	022052	Wing wall and Return wall	cum	1140.00	2699.22	3077110.80
40	022053	Abutment cap, Pier Cap, Inspection Platform & Pedestal over Pier cap, Fender wall, Diaphragm wall etc.	cum	660.00	2739.46	1808043.60
41	022054	Approach slab at formation level, Dirt wall/ ballast wall at formation level	cum	30.00	2658.99	79769.70
42	022055	Extra for every increase of 1m or part thereof in the height above 9.0 m	cum	200.00	80.47	16094.00
43	022070	Providing and fixing Weep Holes in Abutments, Wing walls and Return walls etc., of new bridges with 110mm dia UPVC pipe Type A ISI marked with all contractor's men, material, transportation, all taxes as per specifications and as directed by Engineer-in-Charge.	Metre	135.00	246.59	33289.65

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		Boring, providing and installation of bored cast in-situ Reinforced Cement Concrete piles using Hydraulic piling Rig of specified diameter and length below pile cap of specified grade with Design Mix Cement Concrete, using 20mm graded crushed stone aggregate and coarse sand of approved quality, to carry a safe working load not less than specified, concreting by machine batching, machine mixing, scaffolding, using Admixture in approved proportion (as per IS:9103), placing with tremie pipe, chipping off of pile top to remove laitance concrete above cut off level etc., pumping and bailing out water complete in all respect as per approved drawing, specification and direction of the Engineer in charge. Note: 1. Payment for only cement, reinforcement shall be made extra. 2. Length of the pile for payment shall be measured up to the bottom of RCC pile Cap. 3. 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.				
44	022092	1200mm diameter	Metre	2970.00	8415.58	24994272.60
45	022100	Providing, fabricating and installing permanent casing pipe for bored piles for all diameters with specified thickness of steel plate including all labour, materials, tools & complete as per approved drawing & specifications complete in all respect as per the direction of Engineer in charge. Note: Payment shall be made as per the weight of circular plate of casing pipe only.	MT	215.00	112152.91	24112875.65
		Extra for chiselling in addition to boring of piles, if chiselling is required to be resorted to in hard rock or big stone boulders larger than 30cm, manually or by any other means.				

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46	022111	1200mm diameter pile	Metre	189.00	4823.28	911599.92
		Conducting load test of a single pile up to specified capacity in accordance with IS:2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. with all labour, material, tool & plants, equipment, machinery, etc. complete as per drawing and specification, as directed by the Engineer.				
47	022123	Initial load test above 100 ton and up to 250 T capacity pile	Each	1.00	80406.11	80406.11
48	022124	Extra for every increase of 50 ton in pile capacity or part thereof over 250 ton	Each	1.00	5217.99	5217.99
49	022127	Routine Load Test above 100 ton capacity up to 250 ton capacity pile	Each	1.00	40203.06	40203.06
		Lateral load testing of single pile in accordance with "IS Code of practice IS:2911 (Part-IV) for determining safe allowable lateral load of pile" with all labour, material, tool & plants, equipment, machinery, etc complete as per drawing and specification as directed by the Engineer.				
50	022131	Piles with lateral load capacity of up to 50 ton	Each	1.00	21280.17	21280.17
51	022132	Piles with lateral load capacity of above 50 ton and up to 100 ton	Each	1.00	24598.25	24598.25
52	022140	Pulse Echo Test (PET) for integrity testing of piles with contractor's men, materials and machines. The rate includes cost of Inspection of site, preparation of pile head and any other unforeseen cost required for the test, submission of reports in triplicate as per satisfaction of the Engineer in Charge.	Each	189.00	2843.56	537432.84
53	025020	Providing and applying two coats of coal tar or bitumen confirming to IS:3117- latest version on the top and sides of RCC box/slabs @ 1.70 kg/sqm after cleaning the surface with all labour and materials complete job as directed by the Engineer.	Sqm	1400.00	171.20	239680.00
		Centering and shuttering including strutting, propping etc. and removal of form for :				

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54	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	13900.00	674.52	9375828.00
55	025032	All types of bridge super-structures, e.g. slabs, I-girders, T-girders, Box girders etc. up to 5m above ground level.	Sqm	5400.00	854.92	4616568.00
56	025033	Extra for additional height over item no. 025031 & 025032 wherever required with adequate bracing, propping etc. over initial height of 5 metres for every additional height of 1 metre or part thereof.	Sqm	12300.00	102.08	1255584.00
		Supply and using Cement at Worksite				
57	025072	Ordinary Portland Cement 53 grade of approved brands/makes	MT	4200.00	8964.18	37649556.00
58	025073	Pozzolana Portland Cement approved brands/makes	MT	2090.00	8429.01	17616630.90
		Supply of steel reinforcement of approved brands/makes for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
59	025082	Thermo-Mechanically Treated bars of grade Fe-500D or more of approved brands/makes.	Kg	723400.00	97.13	70263842.00
60	031070	Making suitable designed staging for cast in-situ PSC girders/slabs up to 10.5m height from bed level up to soffit of girder/slab with all contractors materials, machinery, tools and plants, transportation complete in all respects required for casting and removal of the same after completing the work and restoring the site to original. Note: The payment for staging shall be made on the cubical quantity of concrete of main Girders/slabs.	cum	5280.00	2565.12	13543833.60

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61	031090	Design, manufacturing, supplying and fixing in position elastomeric bearing true to line and level conforming to IS:3400, IS:226, BS-5400 under prestressed concrete girders/ Steel Girders, for Pre-cast as well as cast-in-situ girders as per approved drawing. The rate shall include cost of load test of one no. bearing from Railway approved firms and all fixing materials, equipments, machineries, labour, taxes, loading, unloading, leading, lifting etc. complete. Rates include getting the drawing approved from Railway and cost of inspection during manufacturing from railway approved organization. Note : 1. The rate is for finished item complete and paid only after fixing in position below the girder. 2. The volume shall be as given in the drawing and no deduction shall be made for inserted steel plates etc.	Cubic Centimetre	6600000.00	1.28	8448000.00
		Providing and fixing in position of standard preformed sealed and slab type or strip seal elastomeric type expansion joints for Railway bridge or Road Over Bridges as per approved drawings and latest MORTH/IRC specifications complete in all respect as directed by Engineer in-charge.				
62	031101	For 40mm expansion	Metre	320.00	6302.95	2016944.00
63	031102	For 80mm expansion	Metre	50.00	8790.63	439531.50
		Load testing of one or more spans of bridge as selected by the Engineer as per approved load test procedure following relevant IS/IRC/Railway codes with contractor's labour, deflection measuring instruments, loading materials, recording and analyzing the load testing results including all lead & lift, etc. complete as required. The rates are all inclusive and will be paid after load test is finished and girder is cleared of the kentledges/loading material etc. The load shall be 1.25 times the stipulated design load.				
64	031111	For Span design load up to 100 MT	Each	4.00	72795.50	291182.00

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65	031112	Extra for every increase of 1 MT or part thereof over 100 MT in the span design load capacity up to 800 MT	MT	1000.00	306.23	306230.00
		Providing and fixing in position GI Drainage Spouts of required length with Grating in RCC slab and filling bitumen along kerb as shown in drawing with contractor's pipes, bitumen, tools, equipment, lead, lifts etc. complete as per specifications and as directed by Engineer in-charge.				
66	031191	50mm dia. Drainage Spouts	Metre	130.00	605.41	78703.30
67	031192	100mm dia. Drainage Spouts	Metre	60.00	1035.01	62100.60
68	031210	Supplying and laying 160mm dia. PVC Pipes Class-I, capable for a pressure of 2.5 kg/sqm in footpath of ROB for laying cable with all contractor's materials labour, tools, plant, machinery, vehicles, consumables, lead, lift etc. complete as per specifications and as directed by Engineer in-charge.	Metre	830.00	547.10	454093.00

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		Supplying, fabrication, assembling of all types of steel girders of specified spans with structural steel conforming to Quality "B0" Grade Designation E250 conforming to IS:2062, erection / slewing / end launching of steel girders with cranes or any other approved launching methods as per site conditions (not requiring traffic block) on sub-structure including provision of trolley refuges etc., complete as per approved Q A P and drawings conforming to IRS-B1-2001 and other relevant codes and specifications. Note: 1. Detailed fabrication and erection drawings & launching methodology will be prepared by the contractor and got approved from Railway. 2. The rate is all inclusive including launching in position, complete in all respect except cost of (i) Painting / Metalising; (ii) Bearings & (iii) HSFG bolts which shall be paid extra under relevant item. 3. The payment shall be made on the theoretical weight of main components and gusset plates only. 4. Payment Schedule: (i) Receipt of material at site: 40% (ii) Fabrication of girders: 20% (iii) Erection/Launching: 20% (iv) Completion in all respects: 20%				
69	041011	Plate Girder/Semi Through Girder/Composite Girder (Steel Work)	MT	440.00	127282.14	56004141.60
70	041020	Supplying and fixing HSFG bolts of any dia and any length with suitable nuts including DTI washers conforming to IRS-B1-2001 f o r bridges and steel structures with contractors labour, tools and plants and lead and lift etc., complete.	Kg	13200.00	199.91	2638812.00

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		Assembling and erection of fabricated Steel girders on bearings at site with crane/derrick / any other approved means at site on sub structure with labour, equipment, T&P including site bolting with all temporary arrangements, scaffolding etc. with contractors design and scheme for longitudinal launching/side slewing (not requiring traffic block) approved by Railway. Rate includes drifts, service bolts, Holding down bolts etc. as per drawings. Note: Payment for HSFG bolts used if any will be made separately under relevant item.				
71	041031	Plate Girder/Semi Through Girder /Composite Girder more than 12.2 m span	MT	440.00	14108.34	6207669.60
		Metallizing of steel work of girders with sprayed aluminium after surface preparation by Sand/grit blasting, followed by one coat of etch primer (IS:5666) & one coat of Zinc Chrome primer (IS:104) and two coats of aluminium paint (IS:2339) with all labour, T&P and material as a complete job duly conforming to all relevant specifications and process given under Clause 39 of IRS-B1-2001. Note: Nominal Thickness of sprayed Aluminium coating shall be 150 microns. DFT of Zinc chrome primer shall be 25-30 microns and DFT of each coat of Aluminium paint shall be 12-14 microns.				
72	041041	On new girder during fabrication	Sqm	7480.00	749.25	5604390.00
73	041050	Providing and fixing railing used in rows for footpath or anti-crash barrier railing with B class G.I. pipe 65/50 mm nominal dia including cost of M.S. angle and channels in vertical posts, welding / bolting, priming painting with one coat ready mix Zinc Chromate conforming to IS:104 with DFT of 25-30Microns, followed by one coat of Zinc Chrome red oxide conforming to IS:2074 with DFT of 25 Microns with all material, labour, T&P as a complete job. Note: Cost of painting shall be paid extra under relevant item.	Kg	17910.00	103.71	1857446.10

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		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.				
74	041071	With Cement Grout. Cost of cement shall be paid extra.	Kg	630.00	122.53	77193.90
75	041072	With epoxy concrete grouting.	Kg	240.00	130.47	31312.80
76	041080	Supplying, Fabricating and fixing access ladders, inspection platforms, Trolley refuges etc., on bridges with structural steel conforming to IS:2062 including welding / bolting, priming painting with one coat of ready mixed paint of Zinc Chromate (IS:104) with DFT of 25-30 microns followed by one coat of Zinc Chrome Red Oxide (IS:2074) with DFT of 25 microns with all material, labour, T&P as a complete job. Note: Painting shall be paid separately under relevant item.	MT	20.00	102364.88	2047297.60
		Design, supply, fitting and fixing in position true to line and level POT-PTFE bearing of 300MT Capacity, consisting of a metal piston supported by a disc or un reinforced elastomer confined within a metal cylinder, sealing rings, dust seals, PTFE surface sliding against stainless steel mating surface, complete assembly to be of cast steel / fabricated structural steel, metal and elastomer elements complete as per IS:2062, IS:1030, AISI:304, AISI:316, IS:6911, BS:3784, IS:3400, IS:226, BS-5400, Bridge Code and as per approved drawing and Technical Specifications. The design of the bearings shall be submitted by the manufacturers / contractor and got approved from Railway before fixing. Test report after inspection of the bearings shall be submitted and got approved before the materials are lifted from the manufacturer premises.				
77	041121	POT-cum -PTFE Bearing (Free end)	Each	15.00	114853.81	1722807.15
78	041122	POT Bearing-Fixed Type	Each	15.00	110759.72	1661395.80

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79	041123	POT-cum -PTFE Guided (L)Bearing	Each	15.00	155112.35	2326685.25
80	041124	POT-cum -PTFE Guided (T)Bearing	Each	15.00	147606.52	2214097.80
81	051030	Supplying of stone boulders weighing not less than 35 kg each at specified bridge locations.	cum	240.00	914.75	219540.00
82	051040	Manufacture and supplying Galvanized Wire Net Trungers made from 4mm galvanised steel wire @ 32 kg/10sqm having minimum tensile strength of 300 Mpa conforming to IS:280 and galvanizing coating conforming to IS:4826, woven into mesh with double twist, mesh size not exceeding 100mm x 100mm.	Sqm	200.00	434.20	86840.00
83	052020	Providing and laying 300mm thick (average) Dry Stone flooring with boulders of not less than 35kg each in weight, hand packed with surface levelled off to the correct section with hammer dressing as necessary on the ground including filling the gaps with quarry spalls and ordinary sand complete including cost of supply of all materials, labour, lead, lift, tools, plants, crossing of tracks and the like as per drawing and technical specification as directed by Engineer in charge.	cum	440.00	1876.64	825721.60
84	052030	Supply and laying of quarry dust including consolidation, supply of all materials, labour, lead, lift, tools, plants, crossing of tracks as per drawing and technical specification as directed by the Engineer in charge in case loose slush is encountered at site of foundation before casting the foundation or laying the filtering media.	cum	2270.00	1028.70	2335149.00
85	052040	Supply and laying of coarse sand including consolidation with all labour, lead, lift, tools, plants, crossing of tracks as per drawing and technical specification as directed by the Engineer in charge in case loose slush is encountered at site of foundation before casting the foundation or laying the filtering media.	cum	340.00	973.10	330854.00

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86	052140	Providing and fixing of Drainage Spouts of 110mm UPVC Type A ISI marked (Working pressure 4 kg/sqcm) using suitable clamps and adhesive etc., complete.	Metre	135.00	367.58	49623.30
87	052150	Providing and laying of filter media consisting of granular materials of GW, GP, SW groups as per IS:1498 (latest) in required profile behind boulder filling of abutments, wing walls / return walls etc. above bed level with all labour and material complete job as per drawing and technical specification of RDSO Guidelines.	cum	340.00	2242.92	762592.80
88	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	130.00	1113.65	144774.50
89	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	880.00	387.52	341017.60

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		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.				
90	022011(022020)	Extra over item nos. 022011 to 022014 for executing the work under water and/or liquid mud to compensate all additional arrangements including pumping out water as required. Note: The extra percentage rate is applicable only for the quantity of work executed under water. [RATE = 20%]	cum	160.00	41.13	6580.80
					Total	333454379.72
Schedule	Schedule C-Execution of all work as per schedule					
Item- 3	Rails, Sleepers and Fittings Renewal, Turnouts and Renewals, Deep Screening and Ballast Related Activities, Welding Activities, Reconditioning of Points and Crossings, Formation Rehabilitation, Activities at Construction Sites, Maintenance Activities, Testing of Rails and other Components, Heavy Track Machines, Small Track Machines, Handling of Materials, Level Crossings, Bridge Related Activities, Supply of P.Way Materials, Miscellaneous Items under SERUSSOR-2021					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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		Providing Caution Watchman at a location where caution order is imposed and ensuring to be on continuous vigil and exhibit necessary hand signals to the trains for their passage over caution spot. Note: 1) Prescribed protection equipment shall be supplied by Railways and the same shall be returned after work is over. 2) If Contractor fails to post watchman at any time during one day, penalty at double the accepted rates will be levied and 3) The watchman nominated by the contractor will be screened for suitability as per Railway norms.				
1	124031	For one shift (12 Hrs)	Each	2.00	1237.61	2475.22
2	124032	For Half Shift (4 hours)	Each	2.00	417.00	834.00
3	195070	Fabrication, supplying and fixing 600mm x 450mm Bridge Board made from 16 SWG MS Sheet duly welded or riveted to back support of two 600mm long horizontal angles of size 25mm x 25mm x 3mm & two numbers 2.5 metre long vertical support of MS Angle of size 50mm x 50mm x 5mm, welded / rivetted to board. Vertical supports shall have split ends for proper fixing in ground. Vertical supports of board shall be embedded in ground in M 20 Cement Concrete blocks of size 300mm x 300mm x 300mm, complete job including painting & writing of subject matter on bridge board, as directed by Engineer - In charge Note: Excavation & concrete work will be paid separately.	Each	20.00	3336.10	66722.00
					Total	70031.22
Schedule	Schedule D-Execution of all work as per schedule					
Item- 4	Building, Road, Drain etc. under DSR-2023					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	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.				

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1	2.6.1	All kinds of soil	cum	1600	177.5	284000
	2.7	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.				
2	2.7.1	Ordinary rock	cum	200	498.9	99780
3	2.7.3	Hard rock (blasting prohibited)	cum	60	1432.95	85977
	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.				
4	2.8.1	All kinds of soil.	cum	350	260.3	91105
5	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	1400	196	274400
6	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	700	700.5	490350
7	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	500	2123.75	1061875
	2.28	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.				
8	2.28.1	All kinds of soil	Sqm	3400	34.15	116110

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	2.35	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
	2.35.3	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor:				
9	2.35.3.1	With Chlorpyrifos/Lindane E.C. 20% with 1% concentration	Sqm	600	310.05	186030
10	2.36	Extra for levelling & neatly dressing of disposed soil completely as directed by Engineer-in-charge.	cum	300	93.05	27915
	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 :				
11	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	400	7294.7	2917880
12	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	200	7178.75	1435750
	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:				
13	4.2.3	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	100	9895.2	989520

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14	4.2.5	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	300	9311.4	2793420
	4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :				
15	4.3.1	Foundations, footings, bases for columns	Sqm	1200	392.15	470580
16	4.3.2	Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.	Sqm	2400	842.5	2022000
17	4.3.3	Columns, piers, abutments, pillars, posts and struts	Sqm	7600	961.3	7305880
	4.10S	DAMP-PROOF COURSE				
18	4.11	Providing and laying damp-proof course 50mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20mm nominal size derived from natural sources).	Sqm	140	495.75	69405
19	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	8640	18.15	156816
	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 :				
20	4.20.1.2	Concrete of M15 grade with minimum cement content of 240 kg /cum	cum	120	8986.15	1078338

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21	4.20.1.3	Concrete of M20 grade with minimum cement content of 270 kg /cum	cum	170	9212.6	1566142
	5.0	REINFORCEMENT CEMENT CONCRETE				
	5.15	CAST IN SITU				
22	5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15 degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	300	11505.5	3451650
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
23	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	2900	392.15	1137235
24	5.9.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	Sqm	4800	842.5	4044000
25	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	2200	927.25	2039950
26	5.9.5	Lintels, beams, plinth beams, girders, bressummers and cantilevers	Sqm	7200	736.4	5302080
27	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	4600	961.3	4421980
28	5.9.7	Stairs, (excluding landings) except spiral-staircases	Sqm	300	764.95	229485
	5.9.16	Edges of slabs and breaks in floors and walls				
29	5.9.16.1	Under 20 cm wide	Metre	1800	208.55	375390
30	5.9.19	Weather shade, Chajjas, corbels etc., including edges	Sqm	300	951.1	285330
	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.				
31	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	29800	107.85	3213930

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	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
32	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	48200	107.85	5198370
	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				
33	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	500	9504.75	4752375
	5.33.2	All works above plinth level upto floor V level				
34	5.33.2.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	800	9860.4	7888320
35	5.35	Add for using extra cement in the items of design mix over and above the specified cement content therein.	Quintal	1100	733.5	806850
	6.0	MASONRY WORK				
	6.1S	General				
	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 :				
36	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	500	9105.95	4552975
	6.12S	HALF BRICK MASONRY				

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	6.12	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :				
37	6.12.2	cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm	1100	905.05	995555
	6.13	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.				
38	6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)	Sqm	2400	1123.8	2697120
	6.26S	EXPOSED BRICK WALL				
	6.45	Half brick masonry with non modular fly ash bricks of class designation 10, conforming to IS :12894, in super structure above plinth and upto floor V level				
39	6.45.2	Cement mortar 1 : 4 (1 cement : 4 coarse sand)	Sqm	800	1105.8	884640
	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				
40	8.2.2.1	Area of slab upto 0.50 sqm	Sqm	60	5413.5	324810
41	8.2.2.2	Area of slab over 0.50 sqm	Sqm	40	5136.3	205452
	8.20S	STONE WORK DRY CLADDING				

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42	8.31	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sqm	800	1267.95	1014360
	9.0	WOOD AND P.V.C. WORK				
	9.1S	FRAMES AND TRUSSES				
	9.21	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:				
43	9.21.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	240	2392.65	574236
44	9.21.2	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	180	2172.1	390978
45	9.21.3	25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws	Sqm	120	2093.7	251244
	9.40S	MISCELLANEOUS-WOOD WORK				
	9.40	Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete :				
	9.40.1	2nd class teak wood				
46	9.40.1.1	50x12 mm	Metre	300	221.1	66330
	9.46	Providing and fixing chromium plated brass curtain rod having wall thickness of 1.25mm with two chromium plated brass brackets fixed with C.P. brass screws and PVC sleeves etc., wherever necessary complete :				
47	9.46.2	20 mm dia	Metre	500	393.25	196625

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	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.				
48	9.48.2	Fixed to openings /wooden frames with rawl plugs screws etc.	Kg	15000	238.35	3575250
	9.72S	BRASS FITTINGS				
	9.74	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete :				
49	9.74.2	200x10 mm	Each	50	358.4	17920
50	9.74.3	150x10 mm	Each	100	287.25	28725
51	9.74.4	100x10 mm	Each	50	197.5	9875
52	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	20	1124.85	22497
	9.88S	CHROMIUM PLATED BRASS FITTINGS				
	9.90	Providing and fixing special quality chromium plated brass cupboard locks with six levers of approved quality including necessary screws etc. complete.				
53	9.90.2	Size 50 mm	Each	50	333.95	16697.5
54	9.91	Providing and fixing chromium plated brass 50 mm cupboard or wardrobe knobs with nuts complete.	Each	200	151.05	30210
	9.92	Providing and fixing chromium plated brass handles with necessary screws etc. complete:				
55	9.92.1	125 mm	Each	300	231.05	69315
	9.95S	ANODISED ALUMINIUM FITTINGS (ALL FITTINGS SHALL BE ISI MARKED)				
	9.100	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
56	9.100.1	125 mm	Each	300	66.25	19875

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	9.101	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.				
57	9.101.1	Single rubber stopper	Each	200	39.6	7920
58	9.104	Providing and fixing aluminium tee channels (heavy duty) with rollers & stop end in pelmets as curtain rod.	Metre	300	160.35	48105
	9.105S	GYPSUM BOARD PARTITIONS				
	9.117	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance +/-1mm), with wall thickness 2.0 mm (+/- 0.2 mm), corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size19 X 19 mm and 1mm (+/- 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer- in-charge				
59	9.117.1	Extruded section profile size 48x40 mm	Metre	300	270.2	81060
	9.118	Providing and fixing to existing door frames.				

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60	9.118.1	24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (+/- 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (+/- 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (+/- 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (+/- 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).	Sqm	100	2969.25	296925
61	9.129	Providing and fixing cup board shutters 25 mm thick, with Pre-laminated flat pressed three layer particle board or graded wood particle board IS: 12823 marked, exterior grade (Grade I Type II), having one side decorative lamination and other side balancing lamination, including IInd class teak wood lipping of 25 mm wide x12 mm thick with necessary screws and bright finished stainless steel piano hinges, complete as per direction of the Engineer-in-Charge	Sqm	500	2307.35	1153675
	9.135	Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.50 mm all complete.				

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62	9.135.2	With 12 mm mild steel U beading	Sqm	300	1228	368400
	9.147	<p>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.</p>				

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	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.				
63	9.147.A4.1	Using R2 series with frame (70 mm & above) x (40 mm & above) & both glazed and fly screen sash (25 mm & above) x (50 mm & above) with zinc alloy (zamak) powder coated touch locks with hook. (Height upto 1.2 metre).	Sqm	300	10993.55	3298065
64	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	400	10874.2	4349680
65	9.147.A4.3	Using R4 series with frame (115 mm & above) x (45 mm & above) & both glazed and fly screen sash (44 mm & above) x (55 mm & above) with zinc alloy (zamak) powder coated handle on every glazed panel along with multipoint locking system. (Height above 1.8m)	Sqm	60	12372.25	742335
	10.0	STEEL WORK				
	10.1S	General				
66	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	9600	117.35	1126560
67	10.20	Providing and fixing bolts including nuts and washers complete.	Kg	200	159.35	31870

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68	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	6200	772.4	4788880
	11.0	FLOORING				
	11.26S	KOTA STONE FLOORING				
	11.26	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :				
69	11.26.1	25 mm thick	Sqm	300	1948.25	584475
	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.3	Glazed Vitrified tiles Matt/Antiskid finish of size				

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70	11.41A.3.1	Size of Tile 600 x 600 mm	Sqm	2400	1464.85	3515640
	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.				
71	11.56.1	Polished Granite stone slab colour of Black, Cherry/Ruby Red or equivalent	Sqm	2400	4481.3	10755120
	12.0	ROOFING				
	12.37S	RAIN WATER SPOUT AND PIPE				
	12.39	Providing lead caulked joints to sand cast iron rain water pipes and fittings:				
72	12.39.1	100 mm dia Pipe	Each	300	580.5	174150
	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.				
73	12.41.1	75 mm diameter	Metre	400	248.8	99520
74	12.41.2	110 mm diameter	Metre	400	377.4	150960
	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.				
	12.42.1	Coupler				
75	12.42.1.2	110 mm	Each	100	136.15	13615
	12.42.2	Single pushfit Coupler				
76	12.42.2.2	110 mm	Each	100	127.6	12760
	12.42.3	Single tee with door				
77	12.42.3.2	110x110x110 mm	Each	100	234.15	23415
	12.42.4	Single tee without door				
78	12.42.4.2	110x110x110 mm	Each	100	221.35	22135
	12.42.5	Bend 87.5 degree				
79	12.42.5.2	110 mm bend	Each	100	150.35	15035
	12.42.6	Shoe (Plain)				

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80	12.42.6.2	110 mm Shoe	Each	100	131.85	13185
	12.43	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.				
81	12.43.2	110 mm	Each	120	371.3	44556
	13.0	FINISHING				
	13.1S	CEMENT PLASTER (IN FINE SAND)				
	13.1	12 mm cement plaster of mix :				
82	13.1.2	1:6 (1 cement: 6 fine sand)	Sqm	4400	333.35	1466740
	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
83	13.2.2	1:6 (1 cement: 6 fine sand)	Sqm	4200	383	1608600
	13.4S	CEMENT PLASTER (IN COARSE SAND)				
	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:				
84	13.5.2	1:6 (1 cement: 6 coarse sand)	Sqm	9240	395.35	3653034
	13.20S	PEBBLE DASH PLASTER				
85	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	15500	262.7	4071850
	13.44S	EXTERIOR FINISHING				
	13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
86	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	8500	193.7	1646450
87	13.48.3	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture	Sqm	15100	170.7	2577570
	13.50	Applying priming coat:				
88	13.50.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works	Sqm	200	67.4	13480

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	13.52	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.				
89	13.52.1	On steel work	Sqm	200	241.75	48350
	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
90	13.61.1	Two or more coats on new work	Sqm	300	155.9	46770
	14.0	REPAIRS TO BUILDING				
	14.1S	General				
91	14.12	Providing and fixing 16 mm M.S. Fan clamps of standard shape and size in existing R.C.C. slab, including cutting chase, anchoring clamp to reinforcement bar, including cleaning, refilling, making good the chase with matching concrete, plastering and painting the exposed portion of the clamps complete.	Each	200	563.9	112780
	15.0	DISMANTLING AND DEMOLISHING				
	15.1S	General				
	15.2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.				
92	15.2.1	Nominal concrete 1:3:6 or richer mix (including equivalent design mix)	cum	1200	2434.25	2921100
93	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	1200	3551.25	4261500
94	15.5	Extra for cutting reinforcement bars manually/ by mechanical means in R.C.C. or R.B. work (Payment shall be made on the cross sectional area of R.C.C. or R.B. work) as per direction of Engineer-in-charge.	Sqm	1200	1147.2	1376640
	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.				

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95	15.7.4	In cement mortar	cum	1200	2060.2	2472240
	15.12	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :				
96	15.12.1	Of area 3 sq. metres and below	Each	110	367.2	40392
97	15.12.2	Of area beyond 3 sq. metres	Each	110	502.75	55302.5
	15.17	Dismantling steel work in single sections including dismembering and stacking within 50 metres lead in:				
98	15.17.1	R.S. Joists	Kg	9000	3.4	30600
99	15.17.2	Channels, angles, tees and flats	Kg	1500	2.3	3450
100	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	7200	5.65	40680
101	15.20	Extra for dismantling trusses, rafters, purlins etc. of steel work for every additional span of one metre or part thereof beyond 10 metres	kg per metre span	150	.85	127.5
102	15.21	Extra for dismantling trusses, rafters, purlins etc. of steel work for every additional height of one metre or part thereof beyond 5 metres.	kg per metre height	150	.85	127.5
	15.23	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.				
103	15.23.1	For thickness of tiles 10 mm to 25 mm	Sqm	2400	73.4	176160
104	15.23.2	For thickness of tiles above 25 mm and up to 40 mm	Sqm	1200	113.35	136020
105	15.24	Demolishing dry brick pitching in floors, drains etc. including stacking of serviceable material and disposal of unserviceable material within 50 metres lead :	cum	600	1317.65	790590
	15.28	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of:				
106	15.28.1	G.S. Sheet	Sqm	800	164.95	131960
107	15.28.2	Asbestos Cement sheet	Sqm	3600	77.3	278280

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	15.34	Dismantling and stacking within 50 metres lead, fencing posts or struts including all earth work and dismantling of concrete etc. in base of:				
108	15.34.1	T' or 'L' iron or pipe	Each	600	230.9	138540
109	15.34.2	R.C.C.	Each	600	243.3	145980
110	15.36	Dismantling barbed wire or flexible wire rope in fencing including making rolls and stacking within 50 metres lead.	Kg	2000	36.8	73600
111	15.57	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	Sqm	600	56.35	33810
112	15.60	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	cum	4400	263.95	1161380
	16.0	ROAD WORK				
	16.15	ROADS				
113	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	10000	218.9	2189000
114	16.2	Extra for compaction of earth work in embankment under optimum moisture conditions to give at least 95% of the maximum dry density (proctor density).	cum	6100	24.85	151585
	16.5	Laying water bound macadam sub-base with brick aggregate and binding material, earth etc. including screening, sorting and spreading to template and consolidation with light power road-roller etc. complete.(payment for brick aggregate and moorum etc. to be made separately)				

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115	16.5.1	Over burnt (Jhama) brick aggregate 120 mm to 40 mm	cum	400	879.7	351880
	16.30S	PREMIX CARPET				
	16.30	Providing and applying tack coat using hot straight run bitumen of grade VG - 10, including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications :				
116	16.30.2	On bituminous surface @ 0.50 Kg / sqm	Sqm	4500	48.2	216900
117	16.35	2.5 cm premix carpet surfacing with 3 cum of stone chippings 10 mm nominal size per 100 sqm and bitumen emulsion (medium setting min. 65% bitumen contents) complying with IS : 8887, using 96 kg per cum of chippings of road surface, including consolidation with road roller etc complete .	Sqm	4500	252.15	1134675
	16.36	Providing and laying Bitumen Penetration Macadam with hard stone aggregate of quality, size and grading as specified, with bitumen of suitable penetration grade, including required key aggregate as specified, spreading coarse aggregate with the help of self propelled/ tipper tail mounted aggregate spreader and applying bitumen by a pressure distributor and then spreading key aggregate with the help of aggregate spreader complete, including consolidation with road roller of minimum 8 to 10 tonne capacity to achieve specified values of compaction and surface accuracy :				
118	16.36.2	For 75 mm compacted thickness in two layers using stone aggregate of size 63-41 mm graded @ 0.90 cum per 10 sqm key aggregate of size 20.0 mm graded @ 0.18 cum per 10 sqm. With paving asphalt grade VG - 10 @ 68 kg/10 sqm.	Sqm	4500	744.15	3348675

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	16.37	Providing and laying bitumen mastic wearing course (as per specifications) with industrial bitumen of grade 85/25 conforming to IS : 702, prepared by using mastic cooker and laid to required level and slope, including providing antiskid surface with bitumen precoated fine grained hard stone chipping of approved size at the rate of 0.005 cum per 10 sqm and at approximate spacing of 10 cm centre to centre in both directions, pressed into surface protruding 1 mm to 4 mm over mastic surface, including cleaning the surface, removal of debris etc. all complete. (Considering bitumen using 10.2% as per MORTH specification).				
119	16.37.1	25 mm thick	Sqm	7900	854.15	6747785
	16.42S	CONCRETE PAVEMENTS				
	16.43	Providing and laying design mix cement concrete of M-30 grade, in roads/taxi tracks/ runways, using cement content as per design mix, using coarse sand and graded stone aggregate of 40 mm nominal size in appropriate proportions as per approved and specified design criteria, providing dowel bars with sleeve/ tie bars wherever required, laying at site, spreading and compacting mechanically by using needle and surface vibrators, levelling to required slope/ camber, finishing with required texture, including steel form work with sturdy M.S. channel sections, curing, making provision for contraction/ expansion, construction and longitudinal joints (10 mm wide x 50 mm deep) by groove cutting machine, providing and filling joints with approved joint filler and sealants, complete all as per direction of Engineer-in-charge (Item of joint fillers, sealants, dowel bars with sleeve/ tie bars to be paid separately).				
120	16.43.1	Cement concrete prepared with batch mixing machine	cum	200	10529.35	2105870
	16.47S	PAINTING AREA/RUNWAY MARKING				

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	16.47	Painting runway/taxi track/apron marking with adequate nos of coats to give uniform finish with road marking paint of superior make as approved by the Engineer-in-charge, including cleaning the surface of ail dirt, scales, oil, grease and other foreign material etc. and lining out complete.				
121	16.47.1	New work (Two or more coats)	Sqm	1500	188.2	282300
	16.49S	MISCELLANEOUS				
122	16.50	Providing and fixing Glow studs of size 100x20 mm made of heavy duty body shall be moulded ASA (Acrylic styrene Acrylonitrile) or HIP (High impact polystyrene) or ABS having electronically welded micro-prismatic lens with abrasion resistant coating as approved by Engineer in charge. The glow stud shall support a load of 13635 kg tested in accordance with ASTM D4280. The slope of retro- reflective surface shall be 35 (+/-5) degress to base .The reflective panels on both sides with at least 12 cm of reflective area up each side. The luminance intensity should be as per the specification and shall be tested as described in ASTM I: 809 as recommended in BS: 873 part 4 : 1973. The studs shall be fixed to the Road surface using the adhesive conforming to IS, as per procedure recommended by the manufacturer complete and as per direction of Engineer-in-charge.	Each	500	206.3	103150

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123	16.53	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick)and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	Metre	300	375.8	112740
	16.55	Providing and laying bituminous macadam using crushed stone aggregates of specified grading premixed with bituminous binder, transported to site by tippers, laid over a previously prepared surface with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specifications and directions of Engineer-in-Charge.				
124	16.55.1	50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 3.50% (percentage by weight of total mix) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	cum	100	8505.65	850565

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	16.56	Providing and laying semi-dense Bituminous concrete using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction and density as per specification, complete and as per directions of Engineer-in-Charge.				
125	16.56.1	25 mm compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	Sqm	1800	277.7	499860
	16.57	Providing and laying Bituminous concrete using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction and density as per specification, complete and as per directions of Engineer-in-Charge.				
126	16.57.1	40/50 mm compacted thickness with bitumen of grade VG-30 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	cum	400	12126.2	4850480

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	16.60	Manufacturing, supplying and fixing retro reflective overhead signage boards made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity and encapsulated lens type heat activated retro reflective sheeting conforming to type - III of ASTM-D-4956-01 as approved by Engineer-in-charge, letters, borders etc. as per IRC : 67-2001 in silver white with blue colour back ground and with high intensity grade, pasted on substrate by pressure sensitive adhesive backing which shall be activated by applying pressure conforming to class II of ASTM-D-4956-01 and fixing the same to the plate of structural frame work by means of suitable sized aluminium alloys, rivets or bolts & nuts @ 300 mm centre to centre all along the periphery as well as in two vertical rows along with theft resistant measures, including the cost of painting with two or more coats of epoxy paint in grey colour on the back side of aluminium sheet including appropriate priming coat. The rate includes the cost of rounding off the corners, lowering down the structural frame work from the gantry, fixing and erecting the same in position all complete as per drawings, specification and direction of the engineer-in-charge.(Structural frame work including M.S. plate to be provided separately. Rectangular area of the sheet only shall be measured for payment).				
127	16.60.1	Overhead informatory road signage	Sqm	200	5879.9	1175980

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128	16.62	Providing and applying 2.5 mm thick road marking strips (retro- reflective) of specified shade/ colour using hot thermoplastic material by fully/ semi automatic thermoplastic paint applicator machine fitted with profile shoe, glass beads dispenser, propane tank heater and profile shoe heater, driven by experienced operator on road surface including cost of material, labour, T&P, cleaning the road surface of all dirt, seals, oil, grease and foreign material etc. complete as per direction of Engineer-in-charge and accordance with applicable specifications.	Sqm	300	747.8	224340
	16.78	Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.				
129	16.78.1	With material conforming to Grade-I (size range 75 mm to 0.075 mm) having CBR Value-30	cum	700	2784	1948800
130	16.78.2	With material conforming to Grade-II (size range 53 mm to 0.075 mm) having CBR Value-25	cum	700	2924.85	2047395
131	16.79	Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm) to wet mix macadam (WMM) specification including premixing the material with water at OMC in for all leads & lifts, laying in uniform layers with mechanical paver finisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.	cum	500	2914.3	1457150

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	16.91	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in-Charge.				
132	16.91.2	80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.	Sqm	2400	1091.5	2619600
	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:				
133	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	30	6767.4	203022
	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 :				
134	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	Each	30	6515.55	195466.5

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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:				
135	17.7.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	Each	40	2648.85	105954
	17.10	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :				
	17.10.1	Kitchen sink with drain board				
136	17.10.1.1	510x1040 mm bowl depth 250 mm	Each	30	6945.6	208368
137	17.22A	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge.	Each	150	1034.8	155220
	17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
	17.28.2	Flexible pipe				
138	17.28.2.1	32 mm dia	Each	80	119.55	9564
	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 :				
139	17.32.3	Oval shape 450x350 mm (outer dimensions)	Each	80	1377.1	110168
140	17.32.4	Rectangular shape 1500x450 mm	Each	80	2093	167440
141	17.33	Providing and fixing 600x120x5 mm glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.	Each	80	1083.5	86680
	17.34	Providing and fixing toilet paper holder :				
142	17.34.1	C.P. brass	Each	50	803.7	40185
	17.35	Providing and fixing soil, waste and vent pipes :				
	17.35.1	100 mm dia				

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143	17.35.1.2	Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989	Metre	600	1180.75	708450
	17.36	Providing and filling the joints with spun yarn, cement slurry and cement mortar 1:2 (1 cement : 2 fine sand) in S.C.I./ C.I. Pipes :				
144	17.36.2	100 mm dia pipe	Each	120	198.15	23778
	17.38	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.				
	17.38.1	100 mm dia				
145	17.38.1.2	Sand cast iron S&S as per IS - 3989	Each	60	705.2	42312
	17.39	Providing and fixing plain bend of required degree.				
	17.39.1	100 mm dia				
146	17.39.1.2	Sand cast iron S&S as per IS : 3989	Each	60	570.05	34203
	17.69	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour.				
147	17.69.1	Waste coupling 31 mm dia of 79 mm length and 62mm breadth weighing not less than 45 gms	Each	80	115.3	9224
148	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	80	168.35	13468
149	17.72	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.	Each	40	231.95	9278
	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.				
150	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	50	708.95	35447.5
	18.0	WATER SUPPLY				
	18.4S	PP-R PIPES				

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	18.4	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS 15801, UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings and fixing the pipe with clamps at 1.00 m spacing. This includes testing of joints complete as per direction of Engineer-in-Charge. (Internal Exposed on walls)				
151	18.4.1	PN - 16 Pipe, 20mm OD (SDR-7.4)	Metre	300	272	81600
152	18.4.4	PN - 16 Pipe, 40mm OD (SDR-7.4)	Metre	300	545.75	163725
	18.5	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801, UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings and fixing the pipe with clamps at 1.00 m spacing. This includes 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 wall etc.				
153	18.5.1	PN - 16 Pipe, 20mm OD (SDR-7.4)	Metre	400	477.85	191140
154	18.5.2	PN - 16 Pipe, 25mm OD (SDR-7.4)	Metre	300	515.2	154560
155	18.5.3	PN - 16 Pipe, 32mm OD (SDR-7.4)	Metre	400	561.45	224580
	18.6	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801 UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. External work				
156	18.6.1	PN - 16 Pipe, 20mm OD (SDR-7.4)	Metre	300	224.95	67485
157	18.6.2	PN - 16 Pipe, 25 mm OD (SDR-7.4)	Metre	200	265.05	53010

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158	18.6.3	PN - 16 Pipe, 32 mm OD (SDR-7.4)	Metre	200	316.25	63250
159	18.6.4	PN - 16 Pipe, 40 mm OD (SDR-7.4)	Metre	200	415.1	83020
160	18.6.5	PN - 10 Pipe, 50 mm OD (SDR-11)	Metre	200	450.95	90190
	18.6A	Providing and fixing PPR Unions				
161	18.6A.1	PPR Union 20mm	Each	100	315.5	31550
162	18.6A.2	PPR Union 25mm	Each	100	334	33400
163	18.6A.3	PPR Union 32mm	Each	100	403.7	40370
164	18.6A.4	PPR Union 40mm	Each	100	543.1	54310
165	18.6A.5	PPR Union 50mm	Each	100	782.1	78210
	18.7S	C.P.V.C. PIPES				
	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.				
166	18.8.1	15 mm nominal dia Pipes	Metre	300	497.8	149340
167	18.8.2	20 mm nominal dia Pipes	Metre	300	537.6	161280
	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				
168	18.9.3	25 mm nominal dia Pipes	Metre	300	355.4	106620
169	18.9.4	32 mm nominal dia Pipes	Metre	300	438.6	131580
170	18.9.6	50 mm nominal dia Pipes	Metre	300	794.25	238275
	18.15S	BRASS FITTINGS				
	18.15	Providing and fixing brass bib cock of approved quality :				
171	18.15.1	15 mm nominal bore	Each	200	353.25	70650
	18.16	Providing and fixing brass stop cock of approved quality :				
172	18.16.1	15 mm nominal bore	Each	90	353.25	31792.5

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	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
173	18.17.1	25 mm nominal bore	Each	50	622.4	31120
	18.22	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet				
174	18.22.2	150 mm diameter	Each	50	222.35	11117.5
	18.31S	C.I. SLUICE VALVES/ FIRE HYDRANTS & FIXTURES				
175	18.48A	Providing and fixing rectangular high density polyethylene water storage loft tank with cover, conforming to ISI : 12701, colour of opaque white or as approved by Engineer-in-charge. The rate includes making necessary holes for inlet, outlet & over flow pipes. The base support including fittings & fixtures for tank shall be paid separately.	Per Litre	24000	11	264000
	18.49S	C.P. BRASS FITTINGS				
	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				
176	18.49.1	15 mm nominal bore	Each	60	506.8	30408
	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.				
177	18.50.1	15 mm nominal bore	Each	50	820.7	41035
	18.52	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.				
178	18.52.1	15 mm nominal bore	Each	80	670.45	53636
	18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931				
179	18.53.1	15mm nominal bore	Each	80	574.3	45944
	18.54S	PTMT FITTINGS				
	18.54	Providing and fixing PTMT bib cock of approved quality and colour.				
180	18.54.2	15 mm nominal bore, 122 mm long, weighing not less than 99 gms	Each	30	161.2	4836
	18.59S	AIR VALVE & WATER METER (BULK TYPE)				
	18.59	Providing and fixing C.I. double acting air valve of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces, tapers etc if required will be paid separately) :				

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181	18.59.3	100 mm dia	Each	20	8893	177860
182	18.65	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.	Each	80	111.45	8916
	18.75	Providing and fixing PTMT extension nipple for water tank pipe, fittings of approved quality and colour.				
183	18.75.1	15 mm nominal bore, weighing not less than 32 gms	Each	60	53.6	3216
184	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	120	452	54240
	18.90	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge. Elbow 90 degree				
185	18.90.1	For 15.88mm outer dia pipe	Each	120	99.6	11952
186	18.90.2	For 22.22 mm outer dia pipe	Each	120	113.8	13656
187	18.90.3	For 28.58 mm outer dia pipe	Each	120	163.6	19632
188	18.90.4	For 34.00 mm outer dia pipe	Each	120	204.85	24582
189	18.90.5	For 42.70 mm outer dia pipe	Each	120	221.95	26634
190	18.90.6	For 48.60 mm outer dia pipe	Each	120	273.15	32778
	19.0	DRAINAGE				
	19.1S	STONE WARE PIPES AND FITTINGS				
	19.2	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand :10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design :				
191	19.2.1	100 mm diameter S.W. pipe	Metre	200	964.75	192950

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	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 :				
192	19.6.2	150 mm dia. R.C.C. pipe	Metre	300	556.45	166935
193	19.6.4	300 mm dia. R.C.C. pipe	Metre	500	994.3	497150
	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 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 complete as per standard design :				
	19.7.2	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) :				
194	19.7.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	60	26405.5	1584330
	19.19	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality				
	19.19.1	L D- 2.5				
195	19.19.1.1	Rectangular shape 600x450 mm internal dimensions	Each	30	1437.65	43129.5
	19.32	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design.				
196	19.32.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	20	26861.9	537238

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	21.0	ALUMINIUM WORK				
	21.1S	General				
	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, panelling and dash fasteners to be paid for separately) :				
	21.1.1	For fixed portion				
197	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	300	530.9	159270
	21.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				
198	21.1.2.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	500	598.6	299300
	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
199	21.3.2	With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm)	Sqm	300	1505.25	451575

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	21.8	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete.				
200	21.8.1	Upto 5mm depth and 5 mm width	Metre	2400	96.75	232200
201	21.13	Providing and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	Each	200	528.85	105770
	22.0	WATER PROOFING				
	22.1S	General				
202	22.5	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : (a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/ sqm. This layer will be allowed to air cure for 4 hours. (b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.	Sqm	500	617.05	308525

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203	22.22A	Providing and applying fibre reinforced elastomeric liquid water proofing membrane with resilient acrylic polymers having Sun Reflectivity Index (SRI) of 105 on top of concrete roof in three coats @10.76 litre/ 10 sqm. One coat of self-priming of elastomeric water proofing liquid (dilution with water in the ratio of 3:1) and two coats of undiluted elastomeric water proofing liquid (dry film thickness of complete application/system not less than 500 microns). The operation shall be carried out after scrapping and properly cleaning the surface to remove loose particles with wire brushes, complete in all respect as per the direction of Engineer-in-Charge.	Sqm	1000	563.1	563100
	23.0	RAIN WATER HARVESTING & TUBEWELLS				
	23.15	General				
	23.4	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.				
204	23.4.3	200 mm nominal size dia	Metre	400	1255.7	502280
205	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	200	1509.8	301960
206	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	200	1538.25	307650
207	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	200	1538.25	307650
	26.0	NEW TECHNOLOGIES AND MATERIALS				

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	26.73S	PREFAB/PRECAST TECHNOLOGY				
	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).				
208	26.86.1	Frame size 45 x 70 mm	Metre	300	705.85	211755
209	26.86.2	Frame size 45 x 85 mm	Metre	200	926.35	185270
210	26.86.3	Frame size 50 x 100 mm	Metre	200	947.7	189540
211	26.86.4	Frame size 50 x 125 mm	Metre	200	1075.7	215140

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	26.88	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid decorative type flush door shutter of required size comprising of virgin 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) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm ² , modulus of elasticity 850 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. WPC to be laminated with PVC foil of minimum 14 microns thick of approved design pasted with hot melt adhesive on both faces of shutter and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In- Charge.				
212	26.88.1	30 mm thick	Sqm	300	4764.2	1429260
213	26.88.2	35 mm thick	Sqm	200	5432.85	1086570
					Total	191458057.50
Schedule	Schedule E-Execution of all work as per schedule					
Item- 5	Non Schedule Items					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Making bores of suitable size rotary drilling using either direct mud circulating method or reverse circulating method with contractor's Rig, Equipments and casing pipes if required. (A) Through all types of soil except rock, stone or boulders for depth. i) From G.L. to 30m.	Metre	90.00	1963.07	176676.30
2	2	Making bores of suitable size rotary drilling using either direct mud circulating method or reverse circulating method with contractor's Rig, Equipments and casing pipes if required. (A) Through all types of soil except rock, stone or boulders for depth. ii) From 30m. to 60m.	Metre	90.00	1952.31	175707.90

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3	3	Making bores of suitable size rotary drilling using either direct mud circulating method or reverse circulating method with contractor's Rig, Equipments and casing pipes if required. (A) Through all types of soil except rock, stone or boulders for depth. iii) From 60m. to 90m.	Metre	90.00	1952.31	175707.90
4	4	Making bores of suitable size rotary drilling using either direct mud circulating method or reverse circulating method with contractor's Rig, Equipments and casing pipes if required. (A) Through all types of soil except rock, stone or boulders for depth. iv) From 90m. to 120m.	Metre	60.00	2046.20	122772.00
5	5	Making bores of suitable size rotary drilling using either direct mud circulating method or reverse circulating method with contractor's Rig, Equipments and casing pipes if required. (B) For drilling through rock, stone or boulders etc. below ground level	Metre	60.00	6626.04	397562.40
6	6	Supplying & Installing 300mm dia PVC pipe of '80SCHEDULE' having wall thickness 18 mm of "Ori-plast" or Supreme or anyother approved brand confirming to ASTM-D-1785.	Metre	400.00	3065.08	1226032.00
7	7	Supplying & Installing 200mm dia PVC pipe of '80 SCHEDULE' having wall thickness 12.7 mm of "Ori-plast" or Supreme anyother approved brand confirming to ASTM-D-1785.	Metre	200.00	1526.78	305356.00
8	8	Supply & Installing of 200mm dia reinforced glass fibre strainer 6mm thick PIONEER or VMT make or approved brand.	Metre	200.00	3566.40	713280.00
9	9	Supplying following PVC accessories and specials for tube well assemble - a) Nipple 300mm long, 300mm dia - 1no b) Topcap 300mm dia - 1 no. c) reducer 300x250mm dia -1no d) Nipple 150mm long, 250mm dia - 1no. e) reducer 250x200mm dia -1no. f) Tail plug 200mm dia- 1 no.	Each	3.00	12260.29	36780.87

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10	10	Doing electric resistivity test by some approved institute like IIT with proper report for each location. One location shall include of minimum 3(three) no of points. [Unit'Each' = 'Each Tube Well']	Each	3.00	13685.81	41057.43
11	11	Supplying including fitting and fixing and jointing in position 300mm dia MS screwed Cap of suitable size.	Each	3.00	1472.70	4418.10
12	12	Packing the annular space around the tube well pipes with 3mm to 6mm size clean gravel with contractors materials.	cum	80.00	2209.23	176738.40
13	13	Supplying and maintaing centering guides (each set comprises of three guides).	Set	45.00	1158.07	52113.15
14	14	Supplying, fitting and fixing welded MS pipes 200mm dia and 1.80m long long bail plug at the bottom containing inside and lowering in plumb in depth below level.	Each	3.00	9817.63	29452.89
15	15	Development of well with contractor's compressor as per direction of the Engineer-in- charge. Note: Here unit Each means Each DT well.	Each	3.00	53997.30	161991.90
16	16	Making trial boring 50mm dia (Each trial bore not more than 300m depth).	Metre	360.00	490.37	176533.20
17	17	Pumping test by continuously or a total of 48 hrs. with contractor's pump, labour and equipments and testing the yield.	Each	3.00	24544.74	73634.22
18	18	Doing electric resistivity test some approved institute like IIT with proper report for each location. One location shall include a testing of minimum 3 (three) nos. of points.	Each	3.00	22089.34	66268.02
19	19	Supplying, fitting, fixing and commisioning of a submersible pump set complete for 5000 GPH capacity with motor name Calama or KSB with suitable starter (make L&T or MEI or Crompton) for 300mm x 200mm dia tube well, 80m head conforming to the requirements as per CEE's specification No. CEE/S/185/Submersible pump/9/98.	Set	3.00	38269.92	114809.76

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20	20	Supply of Portland slag cement from reputed manufacturer conforming to:IS 455 with latest correction slips, including all handling,loading, unloading, lead, lift,descent, ascent,transportation storage at siteetc. complete.	MT	740.00	7722.91	5714953.40
21	21	Conducting CHUM test for pile foundation including mobilisation etc. complete	Each	110.00	4172.78	459005.80
22	22	Conducting CBR Test on the ground and on the top of layer as decided by the Engineer-in-Charge by suitable method and submission of test reports. The work to be done under the supervision of Rly. Officials. The work to be executed by means of dynamic cone penetration method as per ASTM.D.6591.09 and IRC/37/0212. The rate is including all taxes, GST.royalty, lead, lift, descent, ascent, road taxes etc. The reports shall be submitted in duplicate.	Numbers	30.00	2637.60	79128.00
23	23	Execution of R.C.C in cantilever footpath slab, Deck slab, Footpath Railing, crash barrier, Girder, T-beam, friction slab etc. as per Indian Railway's drawings and specifications or as directed by Engineer in charge with RCC design mix of M:30/M-35/M-40/M-45 Grade (Cast in situ) machine mixed, machine vibrated and machine batched using 20mmgraded crushed stone aggregates and coarse sand of approved quality, Admixture in recommended proportion are required to be used in mix design to accelerate or retard setting of concrete and /or improve workability without impairing strength and durability complete as per specification, The rates includes contract or rigid steel shuttering with necessary staging, cantering, cutting, bending binding with contractors galvanized binding wire f16SWG, admixture, all lead lift, descent, royalty, and taxes if any, complete, The payment towards cost of cement & HYSD bars (reinforcement) will be done vide relevant schedule.	cum	5280.00	4938.80	26076864.00

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24	24	Supplying testing fitting, fixing and welding with stud guns etc. of normal headed shear studs/shear connector 25mm dia And 200mm length conforming to IS 395-66 as per specification of RDSO Drg. along with ferrules to top flange of girder for deck slabs as per the direction/approval of Engineer in charge. (In case shear connectors of any other size is required the payment shall be made on the pro-rata basis in the portion of the weight of the shear connectors). Note here unit each means each stud.	Each	23160.00	287.97	6669385.20
25	25	Storage unit of size 1050x450x2100mm to be made out of 25mm PLPB top and 18mm prelaminate board side panels, nshutter, sheave and bottom. All exposed edge to be covered with 2mm th PVC edgebanding. The back to be made of 9mm prelaminate partial board. All hardware to be from Nexgel, hetich, hafle or equivalent.	Each	60.00	18096.79	1085807.40
					Total	44312036.24
Schedule Schedule F-Execution of all work as per schedule						
Item- 6 Drawing & Design						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Preparation of Design & drawing for New office building/steel structures/sheds (Including inside accessories should be as per latest circular). Notes: (i) The contractor will carryout detailed survey and prepare GAD and get it approved from Railway. (ii) The rates are inclusive of visits to site if required. The site of the work falls under the jurisdiction of Dy.CE(Con), KGP II. (iii) The above quantities are approximate. The Railway reserves the right to increase/decrease the same. Additional special conditions of contract: i) The Agency will get the design checked from Railway. For this purpose Agency will ensure the presence of his representative in the offices of Railway authorities whenever required. Nothing extra will be payable for the above and the rate is inclusive of above. ii) After drawing got approved by	Sqm	3600.00	126.35	454860.00

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		<p>Railway, the Agency will have to submit three copies of initial design calculations with 3 ferro copies of drawings to Railway for record. Design calculation should be clearly written and bound in book form. iii) On clearance of design criteria from Railway for any modification, agency will carry out detailed design again as required without any loss of time after clearance of design parameters. He will also be prompt in clarifying the observations/doubts of the Railways. No extra payment shall be made for the any alterations. iv) Design and drawing after approval shall be property of S. E. Railway who shall have exclusive right to use or reuse it elsewhere. The consultant shall have no claim whatsoever in this regards. v) Based on the design note approved by Rly, the Agency will prepare final general arrangement drawing. Mode of payment: i) Visit to site and collection of field data from site, and detailed design of and preparation of GAD, submission to Railway 3 sets of GAD (Ferro copy), design calculation 3 booklet = 20%. ii) After acceptance of Railway = 50%. iii) Final submission of drawing approved in item (ii) above in reproducing tracing films 3 copies and soft copy on CD, 3 sets of ferro prints for each drawings, final design calculation booklet. Payment will be made after signature of Railway authorities in final drawing =30%. Note: Proof checking of the Design should be done from any Govt. Engineering College/University.</p>			
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2	2	Design of Sub-structure and foundation and making detailed drawings (All structural components excluding Superstructure in ROB Proper) including superstructure of approaches for major bridges / Road OverBridge / Road Under Bridge/ Rly Flyover etc. This rate is inclusive of supplying of soft copy of each drawing in CD ROM, one copy intracing paper & 05 nos. ferroprints. (a) For multiple spans of steel / PSC / Composite girder. Mode of payment: 1. Submission of design caluclations and tentative paper print drawing (two copies) and after approval of Railway (Dy.CE/Con/D&D) prima-facia- 30%. 2. After submission of proofed checked copy of design in book form and drawing in tracing film,soft copy and after approval of Railway (CE/CON) -40% . 3. After signature of all concerned and submission of three design booklet, three tracing film and three ferro print of drawing by the agency - 30%. Note: Proof checking of the Design should be done from any Govt. Engineering College/ University.	Numbers	1.00	176184.69	176184.69
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3	3	<p>Preparation of structural design & Drawing of scaffolding for different types multi storied buildings. The Rate includes all taxes, lead, lift, descend, and ascend, labor, materials etc. complete. The above quantities are approximate. The Railway reserves the right to increase/decrease the same. Additional conditions: I) The Design & Drawing will be proof checked from any any Govt. Engineering College/University. The Agency will get the design checked from Railway. For this purpose Agency will ensure the presence of his representative in the offices of Railway Authorities whenever required. Nothing extra will be payable for the above and the rate is inclusive of above. II) After drawing got approved by Railway, the Agency will have to submit three copies of initial design calculations with 3 copies of drawings to Railway for record. Design calculation should be clearly written and bound in book form. III) On clearance of design criteria from Railway for any modification, agency will carry out detailed design again as required without any loss of time after clearance of design parameters. He will also be prompt in clarifying the observations/doubts of the Railways. No extra payment shall be made for any alterations. IV) Design and drawing after approval shall be property of S. E. Railway who shall have exclusive right to use or reuse it elsewhere. The consultant shall have no claim whatsoever in this regards. V) Based on the design note approved by Rly, the Agency will prepare final arrangement drawings. Mode of payment: i) Visit to site and collection of field data from site and preparation of drawing & design, submission to Railway 3 sets of drawing & Design with approval from Dy.CE/C-II/KGP office = 50%. ii) After approval from Construction HQ = 50%.</p>	Sqm	5900.00	22.00	129800.00
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4	4	Preparation and submission of Final report giving complete and comprehensive record of investigations, laboratory test reports and calculations in approved format.	Each	1.00	18686.96	18686.96
					Total	779531.65
Schedule		Schedule G-Execution of all work as per schedule				
Item- 7		Horticulture & Landscaping under DSR HORTICULTURE-2020				
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	2.0	HORTICULTURE AND LANDSCAPING				
1	2.1	Trenching in ordinary soil up to a depth of 60 cm including removal and stacking of serviceable materials and then disposing of surplus soil, by spreading and neatly levelling within a lead of 50 m and making up the trenched area to proper levels by filling with earth or earth mixed with sludge or / and manure before and after flooding trench with water (excluding cost of imported earth, sludge or manure).	cum	150	78.1	11715
2	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	50	515.6	25780
3	2.3	Supplying and stacking sludge at site including royalty and carriage upto 5 km lead complete (sludge measured in stacks will be reduced by 8% for payment).	cum	20	294	5880
	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) :				
4	2.4.2	Screened through sieve of I.S. designation 16 mm	cum	25	290.7	7267.5
5	2.6	Uprooting weeds from the trenched area after 10 to 15 days of its flooding with water including disposal of uprooted vegetation.	Sqm	1000	4.9	4900
6	2.7	Fine dressing of the ground.	Sqm	1000	3.7	3700
7	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	50	52.35	2617.5

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8	2.9	Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge	cum	50	36.55	1827.5
	2.14	Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%) flooding with water, dressing including removal of rubbish and surplus earth, if any, with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately)				
9	2.14.1	Holes 1.2 m dia and 1.2 m deep	Each	50	335.5	16775
10	2.14.2	Holes 90 cm dia, and 90 cm deep	Each	125	143.1	17887.5
11	2.14.3	Holes 60 cm dia, and 60 cm deep	Each	250	43.75	10937.5
12	2.14.4	Holes 45 cm dia, and 45 cm deep.	Each	500	18.7	9350
	2.15	Half brick circular tree guard in bricks, internal diameter 1.25 metre and height 1.2 metre above ground and 0.20 m below ground, bottom two courses laid dry and top three courses in cement mortar 1:6 (1 cement : 6 fine sand) and the intermediate courses being in dry honey comb masonry as per design complete:				
13	2.15.1	With common burnt clay F.P.S. (non modular) bricks of class designation 5.0	Each	50	1626.45	81322.5

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14	2.16	Providing and fixing M.S. flat iron tree guard 60 cm dia and 2 m high, above ground consisting 4 nos 25 x 6 mm, 2.25 m long and 8 nos 25 x 3 mm 2 m long verticals M.S. flats, riveted to 3 nos 25 x 6 mm M.S. flat iron rings in two halves, fixing together at site with required six numbers of 8 mm dia and 30 mm long bolts, including painting two coats with synthetic enamel paint of approved brand and manufacture over a coat of primer. One name plate of 1 mm thick M.S. sheet of size 250x100 mm shall be welded to the tree guard near the middle height and lettered CPWD / PWD/ any other approved name. The tree guard shall be suitably fixed to the ground by embedding four legs of tree guard in pits of suitable dia and to a depth of 25 cm, refilling the pits with soil and ramming, complete in all respect as per satisfaction and direction of Officer-in-charge.	Each	25	4533.1	113327.5
	2.17	Making tree guard 53 cm dia and 1.3 m high as per design from empty coal tar drums, supplied free by the department, including providing and fixing 2 nos M.S. sheet rings 50 x 0.5 mm fixed with rivets complete in all respects including painting inside and outside of tree guard with:				
15	2.17.2	Two or more coats of synthetic enamel paint of approved quality shade over a priming coat	Each	25	620.35	15508.75
	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 :				
16	2.19.1	Common burnt clay F.P.S (non modular) bricks of Class designation 7.5	Metre	100	396.9	39690
17	2.20	Filling mixture of earth and sludge or manure in the desired proportion in trenches, flooding with water and leveling (cost of supplying earth and sludge or manure and mixing excluded).	cum	5	18.25	91.25

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18	2.25	Supplying and stacking of well decayed cattle manure at site including royalty and carriage upto 5 k.m.lead complete (Cattle manure measured in stacks will be reduced by 8% for Payment).	cum	5	247.5	1237.5
	2.29	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.				
19	2.29.1	Top inside dia 35 cm, outer bottom dia 25 cm, total height 35 cm with wall thickness of 25.4 mm	Each	50	225.05	11252.5
20	2.29.2	Top inside dia 30 cm, outer bottom dia 20 cm, total height 30 cm with wall thickness of 25.4 mm	Each	25	184.1	4602.5
	2.31	Filling of the following size empty pots with mixture of good earth & manure in the ratio of 2:1 (Two part of Good earth & one port of manure) and placing them on appropriate place i/c carriage of earth, manure and pots up to 50 mtr, as per direction of officer incharge. (The cost of good earth, earthen pots & manure will be paid seperately.)				
21	2.31.7	Size of Empty Pots 35cm Top dia, 25cm Bottom Dia & 35cm Perpendicular height.	Each	50	45.75	2287.5
22	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	30	214.4	6432

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23	2.34	Providing & laying Selection no. 1 doob grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and then rolling the surface with light roller make the surface smoothen and light watering the same maintenance for 30 days or more till the grass establish properly,as per direction of officer in charge	Sqm	2500	87.5	218750
24	2.35	Supplying & Stacking of Selection No.1 doob grass turf at site fresh & free from weeds having proper roots in green including loading, unloading, carriage and all taxes paid etc.and as per direction of officer in charge.	Sqm	100	50.8	5080
25	2.50	Providing & fixing of White River (Stone) Pebbles size of 2" to 2.50" dia in natural colour at site of work including loading, unloading, carriage and all taxes paid etc. and as per direction of officer in charge.	Quintal	5	610.7	3053.5
	2.57	Plantation of Trees, Shrubs, and Hedge at site i/c watering and removal of unserveiceable material's as per direction of officer in charge (excluding cost of plant & water)				
26	2.57.1	Trees Plant	Each	250	7.3	1825
27	2.57.2	Shrubs Plant	Each	500	3.65	1825
28	2.57.3	Hedge Plant /Ground cover	Each	500	2.45	1225
	3.0	FOLIAGE AND SHADE LOVING PLANTS				
29	3.6	Providing and Displaying of Aglaonema Sam plant ht.30 cm well developed three in one, having 18 to 20 fresh, healthy and attractive colorful leaves in 35 cm size Earthen pot/Chali/Tray & as per direction of the officer-in-charge.	Each	50	307.5	15375
30	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 c m size of Earthen pot/Plastic pot & a s p e r direction o f the officer-in-charge.	Each	75	157.85	11838.75

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31	3.22	Providing and displaying of Areca Palm having ht. 2.40 m to 2.70 m with 12 to 14 suckers, well developed, fresh and healthy with lush green foliage in 35 cm size of Bucket type cement pots & a s p e r direction o f the officer-in-charge.	Each	150	592.45	88867.5
32	3.30	Providing and displaying of Croton Golden having ht. 45 cm to 60 cm with 2 to 3 branches, well developed, fresh and healthy foliage in 25 cm size of Earthen pot/Plastic pot as per direction of the officer-in-charge.	Each	20	56.4	1128
33	3.31	Providing and displaying of Croton Baby Golden (three in one), having ht. 30cm, multi branches, well developed with fresh and healthy foliage in 25 cm size of Earthen pot/Plastic pot. as per direction of the officer-in-charge.	Each	20	85.1	1702
34	3.32	Providing and displaying of Croton golden (Broad Leaves) having ht. 60 cm to 75 cm with 3 to 4 branches, well developed, fresh and healthy leaves in 25 cm size of Earthen pot/Plastic pot. & a s p e r direction o f the officer-in-charge.	Each	20	56.4	1128
35	3.33	Providing and displaying of Croton Golden specimen having ht. 90 cm to 105 cm with 5 to 6 branches, well developed, fresh and healthy foliage in 30 cm size of Earthen pot/Plastic pot as per direction of the officer-in-charge.	Each	20	172.2	3444
36	3.34	Providing and displaying of Croton Duck foot (Elite) having ht. 45 cm and above with 3 to 4 branches, well developed, fresh and healthy leaves in 25 cm size of Earthen pot/Plastic pot. & a s p e r direction o f the officer-in-charge.	Each	20	112.75	2255
37	3.35	Providing and displaying of Croton Duck Foot (Elite) having ht. 60 cm to 75 cm with 4 to 5 branches, well developed, fresh and healthy colorful leaves in 25 c m s i z e o f Earthen pot/Plastic p o t & a s per direction o f the officer-in-charge.	Each	20	322.9	6458

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38	3.36	Providing and displaying of Croton Petra Bangalore variety having ht 45 cm & above, well developed with fresh and healthy leaves in 20 cm size of Earthen pot/Plastic pot. & as per direction of the officer-in-charge.	Each	20	117.9	2358
39	3.37	Providing and displaying of Croton Petra having ht. 45 cm & above with 2 to 3 branches, well developed, fresh and healthy leaves in 25 cm size of Earthen pot/Plastic pot. & as per direction of the officer-in-charge.	Each	20	123	2460
40	3.60	Providing and displaying of Money Broad Leaves mounted on moss stick 1.20 m ht., 5 to 6 s in each pot, well developed with full of fresh & healthy leaves in size of 25 cm Top dia x 18 cm Bottom dia x 25 cm Perpendicular height Earthen pot/Plastic pot & as per direction of the officer-in-charge.	Each	25	246	6150
41	3.74	Providing and displaying of Phoenix palm having ht. 75 cm to 90 cm with 10 to 15 or more leaves, well developed, fresh and healthy in 25 cm size of Earthen pot/Plastic pot & as per direction of the officer-in-charge.	Each	20	215.25	4305
	4.0	SEASONAL PLANTS				
	4.1S	Winter Seasonal plants				
42	4.40	Providing and Displaying Marigold(Tagetes) inca hybrid different colour having 30 cm and above ht., with 6 to 8 flowers in bloom & blooming condition, well developed pot should be fully covered with fresh and healthy, foliage and flowers in 20 cm Earthen Pot/Plastic Pot and as per direction of the officer-in-charge.	Each	12	64.6	775.2
	4.71S	Summer and Rainy Seasonal Plants				
43	4.77	Providing and Displaying Kochia well developed fresh & healthy 20 to 25 cm ht. lush green well shaped in 20 cm Earthen Pot/Plastic Pot and as per direction of the officer-in-charge.	Each	7	32.8	229.6

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44	4.87	Providing and stacking of plant Motia of height 25 to 30 cm., 2 to 3 branch in earthen pots of size 20 cm Earthen Pot/Plastic Pot and as per direction of the officer-in-charge.	Each	12	41	492
	4.90S	ROSE PLANTS				
45	4.90	Bush Rose in different colour 2 to 3 healthy branch 30 cm and above ht. well developed with 8 or more flowers / flower buds in 20 cm Earthen pot /Plastic pot as per direction of the officer-in-charge.	Each	20	25.65	513
46	4.93	Providing and Displaying Standard Rose (H.T. variety) 3 to 4 healthy branch 90 cm and above ht. well developed with one and above flowers in 25 cm Earthen Pot, as per direction of the officer-in-charge.	Each	12	150.7	1808.4
	5.0	ORNAMENTAL PLANTS				
47	5.1	Providing and Displaying Acalypha Different colour well developed, fresh & healthy with good foliage, multi branch 30 to 45 cm ht. in 20 cm size of Earthen Pot/ Plastic Pot bushy as per direction of the officer-in-charge.	Each	50	35.9	1795
48	5.5	Providing and Displaying Adenium Obesum grafted well developed with fresh & healthy 30 to 60 cm ht. in 25 cm size Earthen Pot/ Plastic Pot as per direction of the officer-in-charge.	Each	20	287	5740
49	5.14	Providing and Displaying Cycus revoluta in 35 cm challi, specimen, having 30 to 40 with fresh and healthy, leaves having 25cm to 30cm Circumference of base stem well developed as per direction of the officer-in-charge.	Each	50	1183.9	59195
50	5.25	Providing and Displaying Ficus reginold well developed fresh & healthy foliage 60 to 75 cm spread 105 to 120 cm ht., Bushy in 35 cm Cement Pot as per direction of the officer-in-charge.	Each	50	377.2	18860
51	5.31	Providing and Displaying Furcraea variegated well developed with fresh & healthy foliage 8 to 10 leaves in 30 cm Earthen Pot as per direction of the officer-in-charge.	Each	50	225.5	11275

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52	5.33	Providing and Displaying Golden Bottle brush Topiary well developed with fresh & healthy foliage 5 to 6 big ball 115 to 180 cm ht in 40 cm Cement Pot as per direction of the officer-in-charge.	Each	50	973.75	48687.5
53	5.41	Providing and Displaying Topiary of Casuarina fresh & healthy having 5 to 6 specific shape and size ball well developed 195 to 210 cm ht. in 40 cm Cement Pot as per direction of the officer-in-charge.	Each	50	1076.25	53812.5
54	5.42	Providing and Displaying Travelers palm well developed with fresh & healthy foliage 120 to 150 cm ht. in 35 cm Cement Pot as per direction of the officer-in-charge.	Each	50	484.85	24242.5
	6.0	GROUND COVERS PLANTS				
55	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	500	20	10000
	7.0	TREE PLANTS				
56	7.10	Providing and stacking of Bottle palm of ht. 150-180 cm bottom girth 20-25 cm well developed in big poly bags of size 25 cm as per direction of the officer-in-charge.	Each	20	180	3600
57	7.14	Providing and stacking of Callistemon lanceolatus of height 150-165 cm. in big poly bags of size 25 cm as per direction of the officer-in-charge.	Each	25	65	1625
58	7.16	Providing and stacking of Cassia fistula (Amaltash) of height 120-135 cm. in big poly bags of size 25 cm as per direction of the officer-in-charge.	Each	25	65	1625
59	7.24	Providing and stacking of Delonix regia (Gulmohar) of height 150-165 cm. in big poly bags of size 25 cm as per direction of the officer-in-charge.v	Each	25	60	1500
60	7.40	Providing and stacking of Fishtail palm of ht. 210-240 cm bottom girth 25- 30 cm well developed i n big size HDPE bags as per direction of the officer-in-charge.	Each	15	300	4500

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61	7.43	Providing and stacking of Foxtail palm of ht. 180-210 cm bottom girth 25- 30 cm well developed i n big size HDPE bags as per direction of the officer-in-charge.	Each	15	480	7200
62	7.55	Providing and stacking of Michelia champa (Golden Champa) of height 90- 105 cm. i n earthen pots of size 25 cm as per direction of the officer-in-charge.	Each	20	90	1800
63	7.65	Providing and stacking of Pinus longifolia (Pinus) of height 90-105 cm. i n cement pots of size 35 cm as per direction of the officer-in-charge.	Each	20	550	11000
64	7.67	Providing and stacking of Plumeria acutifolia of height 120-135 cm. with 2- 3 branches i n HDPE b a g of size 30 cm as per direction of the officer-in-charge.	Each	25	110	2750
	8.0	SHRUBS				
65	8.1	Providing and stacking of Bauhinia acuminata height 60-75 cm. i n earthen pots of size 20 cm as per direction of the officer-in-charge.	Each	50	45	2250
66	8.2	Providing and stacking of Bauhinia tomentosa (yellow) of height 60-75 cm. i n earthen pots of size 20 cm as per direction of the officer-in-charge.	Each	20	45	900
67	8.8	Providing and stacking of Cassia biflora of height 45-60 cm. i n earthen pots of size 20 cm as per direction of the officer-in-charge.	Each	20	45	900
68	8.13	Providing and stacking of Cestrum nocturnum (Raat ki Rani) of height 60- 75 cm. with 4-5 branches i n bag of size 25 cm as per direction of the officer-in-charge.	Each	100	40	4000
69	8.43	Providing a n d stacking of Largerstroemia indica of h e i g h t 9 0 - 1 0 5 cm. multibranched i n poly bags of size 25 cm as per direction of the officer-in-charge.	Each	25	40	1000
70	8.48	Providing and stacking of Mussaenda erythrophylla (Rosea) of height 60- 75 cm. multi branched i n earthen pots of size 25 cm as per direction of the officer-in-charge.	Each	50	110	5500
71	8.54	Providing and stacking of Nyctanthes arbor-tristis (Hasingar) of ht. 90-105 cm i n Earthen pots of size 20 cm as per direction of the officer-in-charge.	Each	100	40	4000

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72	8.58	Providing and stacking of Tabernaemontana coronaria (Chandni single) of height 45-60 cm. in earthen pots of size 20 cm as per direction of the officer-in-charge.	Each	100	35	3500
73	8.76	Providing and stacking of Thuja compacta of height 75-90 cm., conical shaped, well formed with healthy foliage in earthen pots of size 30 cm as per direction of the officer-in-charge.	Each	50	130	6500
	9.0	CREEPER PLANTS				
74	9.1	Providing and stacking of Allamanda cathartica of height 30 cm to 45 cm. in 20 cm size of Earthen pots / Plastic pots & as per direction of the officer-in-charge.	Each	10	45	450
75	9.8	Providing and stacking of Jasmine grandiflorum (chameli) of height 30 cm to 45 cm. in 20 cm size of Earthen pots / Plastic pots & as per direction of the officer-in-charge. .	Each	10	30	300
	11.0	MEDICINAL PLANTS				
76	11.10	Providing and Stacking of Lemon grass of ht. 30 cm with multi branches in Poly bag of size 20 cm. as per direction of the officer-in-charge.	Each	50	50	2500
77	11.14	Providing and Stacking of Sarpagandha well developed in poly bag of size 20cm as per direction of the officer-in-charge.	Each	25	50	1250
78	11.17	Providing and Stacking of Aprajita Blue well developed in poly bag of size 20cm as per direction of the officer-in-charge.	Each	10	30	300
					Total	1079992.95
Schedule	Schedule H-Execution of all work as per schedule					
Item- 8	Supply of General Services Items					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supply of LED 2x18/20W T-8 indoor type Tube Light fitting with Aluminum housing having Luminous flux efficacy 120 Lm/Watt,CRI75 for each tube light, with Constant current driver complete with lamp and all accessories.	Numbers	30.00	505.00	15150.00
2	2	Supply and erection of LED Lamp 7-9W,230V.	Numbers	100.00	98.00	9800.00
3	3	Supply of 1x18/20W T-8 LED Tube Light fitting Constant current driver complete with lamp and all accessories.	Numbers	140.00	331.00	46340.00

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4	4	Supply of Energy efficient (5-star rating) BLDC AC ceiling fan of 1200mm sweep with regulator including suspension arrangement.	Numbers	80.00	3264.00	261120.00
5	5	Supply of Exhaust fan 250mm/300mm sweep BLDC Heavy duty copper wound with anticorrosive blade complete with frame, and other accessories.	Numbers	30.00	2641.00	79230.00
6	6	Supply of Double door Distribution Board IP-43 wall mounting type with provision of 1x32A, 10kA Double Pole MCB as Incoming & 4 x Single Pole MCB 6A 16A,10kA as outgoing as per IS/IEC 60898-1,housing in a SP&N Prewired 6-way CRCA steel sheets enclosure with Neutral Link, Earth bar & Din Rail etc.	Numbers	30.00	3133.00	93990.00
7	7	Supply of LED Street Light Luminaire in Die Cast Aluminium Body with heat sink in aluminium extrusion, IP66, LED light 50-60 Watt, 5700-6500k	Numbers	140.00	3216.00	450240.00
8	8	Supply of Heat shrinkable type indoor/outdoor end termination/Straight through kit as per IS 13573 : Part 3, suitable for 11kV, 3 Core 70/95/120/185-300 Sq.mm XLPE Cable.	Numbers	10.00	12819.00	128190.00
9	9	Supply of Earth cone of 2.8 M long, 54.4mm inside dia and 60.2 mm out side dia GI pipe. The pipe having conically tapered at one end and having sufficient no. of holes of 12mm dia. including connection by 2x8.No SWG GI wire and making of earth cone sump box .	Numbers	40.00	1272.00	50880.00
10	10	Supply of GI pipe 3"/4" dia with socket for laying/verticle lifting of cable.	Metre	100.00	594.00	59400.00
11	11	Supply, erection and testing of Maintenance free Earthing system comprising of 48.3 mm dia.meter, 3 meter long earthing electrode of low carbon high tensile steel with 250 microns copper coating + carbon based conductive back fill compound & copper Clamp including suitable length earthing GI strip of 40 x 3 mm for termination works.	Numbers	8.00	7697.00	61576.00

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12	12	Supply of MCB 16-25A, 10Ka with 3/5 modular type socket with starter in a enclosure for A.C point similar to DHDUCDP0253016-25 with complete wiring	Numbers	75.00	905.00	67875.00
13	13	Supply of Triple pole 11 KVx400 A Capacity gang operated air break switch complete with insulator, DO fuse, support channel, clamps for fixing in 4 pole/DP structure along with operating handle and locking arrangement etc.	Set	2.00	14128.00	28256.00
14	14	Supply of 11 KV LA complete set with mounting hardware arrangement, metal oxide type (1Set consists of 3 Nos. LA) Make Rly. approved brand.	Set	4.00	4087.00	16348.00
15	15	Supply of 11 KV Pin insulators complete with all accessories.	Numbers	12.00	344.00	4128.00
16	16	Supply of 11 KV Disc insulators complete with all accessories.	Numbers	12.00	655.00	7860.00
17	17	Supply of MS Sheet Cable Busbar Chamber IP-43 wall mounting type 3 phase and neutral, 416 Volt with 4 Nos copper bus bar of 100A each (similar to Havells Cat.No.IHBC010004)	Numbers	8.00	5403.00	43224.00
18	18	Supply of Busbar Chamber IP-43 wall mounting type 3 phase and neutral, 416 Volt with 4 Nos copper bus bar of 400A each, all assembled in 14 SWG sheet steel, powder coated MS Box Enclosure (similar to Havells Cat. No. IHBC040004)	Numbers	3.00	20301.00	60903.00
19	19	Supply of Busbar Chamber IP-43 wall mounting type 3 phase and neutral, 416 Volt with 4 Nos copper bus bar of 63A each, all assembled in CRCA steel sheets enclosure (similar to Havells Cat. No.IHBC006304)	Numbers	4.00	3839.00	15356.00
20	20	Supply & erection of Fire fighting equipment 5 Kg. capacity (DCPT)	Numbers	4.00	2631.00	10524.00
21	21	Supply of GI Flate of size 40mm x 3mm for Earthing of all structure and vital equipment including required nut, bolts & sockets etc.	Metre	100.00	71.00	7100.00
22	22	Supply of bulk head fitting complete with LED lamp of 9 10 watt with all accessories.	Numbers	25.00	886.00	22150.00

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23	23	Supply of Service main DB consisting of one no. 5-30A electronics energy meter(LCD display), & RCCB 1x32A, 30 mA as per IS/ IEC 61008-1, housing in duly painted CRCA steel sheets enclosure with cable entry arrangement .	Numbers	25.00	2387.00	59675.00
24	24	Supply of Street light panel with Astronomical/digital timer 24hrs, contactor rating 32A/TP MCB rating 40A/TPN. (similar to Havells IHXTS0306A).	Numbers	4.00	15482.00	61928.00
25	25	Supply of Distribution Board Double door type IP-43 wall mounting type with provision of 1x63A Double Pole MCB as Incoming & 4 x 20A-32A Double Pole MCB , a s outgoing as per IS/IEC 60898 & 60947-2,housing in a SP&N Prewired MS Box Enclosure with Neutral Link, Earth bar & Din Rail etc.	Numbers	10.00	6177.00	61770.00
26	26	Supply of LT DB comprising 1x63A ,16kA TPN MCCB with busbar as incoming and 4x32A, 4x16A,10kA DP MCB as outgoing as per IS/IEC 60898 & 60947-2.	Numbers	10.00	11891.00	118910.00

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27	27	Supply of Hot dip galvanized flange mounted type continuously tapered, polygonal cross section, 20 sided High mast (Grade BSEN 10025 - S355J0) of 20M normal mounting height with minimum diameters of 200mm at the top and 540 mm at the bottom, Minimum plate thickness 6mm, Base Flange diameter: 740mm, Flange thickness: 30 mm, PCD (Pitch Circle Diameter): 650mm, complete with 3 point suspension system, head frame canopy, 6mm stainless steel wire ropes to carry up to 12. Nos luminaries complete mounting bracket & accessories, one length 2.5 sqmm 8 core flat electrical trail copper cable 1100V grade, foundation bolt, nut, washer and Top & Bottom templates, lightning arrestors, lantern carriage, double drum winch, 3-phase 2HP Motor, earthing arrangement etc suitable for withstanding basic wind speed of 180KMPH including suitable 3PH power tools, twin aviation obstruction neon light as well as manual arrangement for raising lowering of lantern carriage with all necessary accessories, including suitable size Outdoor stand mounted duly painted Feeder Pillar box made by 1.6mm thick CRCA steel sheets Enclosure with locking arrangement comprising 63A Four Pole MCB as incomer, timer, Triple Pole contactor for the Automatic switching of luminaries and power tool control with 9A contactors and raise lower push button.	Set	4.00	263172.00	1052688.00
28	28	Supply of high intensity long range, energy saving die cast aluminium IP-66 flood light luminaire with 190-200 W high power LED as light source with reflector and lens of reputed make	Numbers	60.00	10598.00	635880.00
29	29	Supply of Outdoor type LED light fitting (IP-66) for front lighting, 70-80 Watt, suitable for voltage 230V AC complete with driver and all other accessories.	Numbers	10.00	7013.00	70130.00

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30	30	Supply of recess mounted LED panel light 10-12 Watt with driver similar to Havells LHEBLDPFPVNW010 model.	Numbers	10.00	339.00	3390.00
31	31	Supply of Electric storage water heater of 15L capacity geyser with 5star rating similar to Havells GHWCNTIV015	Numbers	3.00	13592.00	40776.00
32	32	Supply of Wire Mesh type Cable tray of Stainless Steel, 300mm width with SS fixing bracket, coupler & bend plat with suitable SS nut, bolt & washer etc.	Metre	70.00	892.00	62440.00
33	33	Supply of 1.1 KV 3.5/4 CORE 50/70/ 95/120 sq.mm LT straight through heat shrinkable kit.	Numbers	14.00	2681.00	37534.00
34	34	Supply of IP65 (dust proof & jet water tight) junction box, made of high quality thermoplastic having high grade internally embedded gasket made of Polyurethane, fireretardant & self extinguishing, JB size (L X B X H) of : 300mm X300mm X 170mm fitted with 1No.63A DP MCCB, with minimum 2.Nos 2Cx70/50Sq.mm cable entry arrangement with TPN-100A, 4-Way cable connector.	Numbers	8.00	4693.00	37544.00
35	35	Supply of IP65 (dust proof & jet water tight) junction box, made of high quality thermoplastic,Insulated & corrosion free, acidand chemical resistant, having high grade internally embedded gasket made of Polyurethane, fire retardant & self extinguishing, JB having size (L X B X H) of :360mm X 500mm X 180mm fitted with 1No. 160A DP MCCB,with minimum 2.Nos 2Cx150Sq.mm cable entry arrangement with (TP-200A cable connector terminal) / loop in loop out terminal.	Numbers	6.00	7709.00	46254.00
36	36	Supply of programmable time switch 24 Hrs code with contracator 3 pole with AC coil i.eAmp-32 make Havells or Similar.	Numbers	6.00	2807.00	16842.00

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37	37	Supply of IP65 (dust proof & jet water tight) junction box, made of high quality thermoplastic, Insulated & corrosion free, acid and chemical resistant, having high grade internally embedded gasket made of Polyurethane, fire retardant & self extinguishing, JB having size (L X B X H) of :600mm X450mm X 250mm (approx) fitted with 2 No. TPN-100A, cable connector terminal / loop in loop out terminal with minimum 4.Nos 4Cx 70/50Sq.mm cable entry arrangement.	Numbers	8.00	3387.00	27096.00
38	38	Design, manufacture, display of wall hanging / floor mounting type LED illuminated glow sign / direction boards in half elliptical shape. All specifications to be followed as mentioned in GEN.	Square Foot	50.00	3840.00	192000.00
39	39	Supply of Automatic Supply change over color light signaling panels, 160A for 3 source single phase supply suitable for 25KVA, 240V AT as per RDSO specification. CLS panel.	Numbers	3.00	131813.00	395439.00
40	40	Supply of single phase Submersible pump set for use in bore wells for handling clear cold water having motor of wet type for continuous rating, Delivery 1.1KW/1.5HP with pump controller/ starter as per site requirement, including PP Rope 14mm, 3COREX4.Sq.mm.FLAT CABLES with flexible copper conductor as per site requirement or minimum 90m	Set	2.00	35899.00	71798.00

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41	41	Supply of LT Panel consisting with 4-pole MDO (Manually Operated Draw Out) type ACB 800 A, 50KA, Microprocessor Based - 02Nos. as incoming, 4-pole M F (Manually Operated Fixed) type ACB 800 A, 50KA, Microprocessor Based - 01 No. as buscoupler and FP 400A, 50kA microprocessor based MCCB -02 Nos, FP 250A, 50kA microprocessor based MCCB - 05 Nos, FP100A, 36kA microprocessor based MCCB - 03Nos., FP MCB 63A, 10kA with 3PP (Protected Pole) - 02 Nos. as outgoing with suitable Cu.Bus bar, Automatic Fire Ball, Digital Multifunctional Meter in each Incoming & Outgoing MCCB, Capable to measure and display Voltage, Current, Frequency, Power factor, kW, kVAR, kWh, kVAh, kVARh etc., appropriate spreader link for MCCB and with necessary item for seal the cable entry and outgoing point.	Numbers	1.00	1409817.00	1409817.00
42	42	Supply of 5M HDG (Hot Dip Galvanized) double arm Octagonal Pole with cable junction compartment Insulated Cable Connector 4-way and SP 6A MCB, Pole top dia.70mm, bottom dia. 130mm, sheet thickness 3 m m , base plate dimensions (L X B X T)- 200mm X 200mm X 12mm with 1000 mm long double arm and foundation bolts etc.	Numbers	60.00	10299.00	617940.00

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43	43	Supply of painted outdoor pillar box made of 2mm thickness sheet steel, rust protected, powder coated with single door & locking arrangement as per IP-54, consisting with FP MCCB 250A, 50kA Microprocessor Based - 01 No. as incoming and FP MCCB 100A, 36kA Microprocessor Based - 02 Nos., FP MCCB 63A, 36kA Microprocessor Based - 04 Nos. as outgoing with suitable Cu. Bus-bar, Digital Multifunctional Meter in each Incoming & Outgoing MCCB, Capable to measure and display Voltage, Current, Frequency, Power factor, kW, kVAR, kWh, kVAh, kVARh etc., appropriate spreader link for MCCB and with necessary item for seal the cable entry and outgoing point.	Numbers	3.00	235815.00	707445.00
44	44	Supply of Cable loop box (of fibre body) for 3-Phase incoming and outgoing connection consists of 3-Phase and neutral terminal and 15/16 Amps K-fuse as per relevant ISS, with suitable bridge arrangement of size: 240mmx 140mm x 100mm and all other accessories.	Numbers	20.00	845.00	16900.00
45	45	Supply of Industrial Plug & Socket of capacity: 32 A, 5 Pin, 3P+N+E with 32A, 10kA FP MCB with 3PP (Protected Pole)-01 No. and Plug and Socket Distribution Board.	Numbers	4.00	7864.00	31456.00
46	46	Supply of VTP & N 8-Way DB (Double Door) consisting with FP 100A, 36kA Microprocessor Based MCCB - 01 No. as incoming and TP MCB 63A, 10kA- 6 Nos. as outgoing with Cu. bus-bar, Neutral links, Earth bar, cable gland, appropriate spreader link for MCCB etc.	Numbers	4.00	37242.00	148968.00
47	47	Supply of TP&N 4-Way DB (Double Door) consisting with FP MCB 63A, 10kA with 3PP (Protected Pole) - 01 No. as incoming and SP MCB 32A, 10kA- 8 no. or DP MCB 32A, 10 kA- 4 Nos. as outgoing with bus-bar, Neutral links, Earth bar, cable gland etc.	Numbers	4.00	9268.00	37072.00
48	48	Supply of Switch fuse unit (rewireable type) 415V TP with Neutral link capacity 63A.	Numbers	4.00	4062.00	16248.00

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49	49	Supply of Switch fuse unit (rewireable type) 415V TP with Neutral link capacity 100A.	Numbers	6.00	7500.00	45000.00
50	50	Supply of FP 125 Amps, 35kA Microprocessor Based MCCB including spreader link and sheet steel powder painted enclosure with proper wiring to complete job.	Numbers	4.00	15210.00	60840.00
51	51	Supply of FP 200 Amps, 36kA Microprocessor Based MCCB including spreader link and sheet steel powder painted enclosure with proper wiring to complete job.	Numbers	4.00	24912.00	99648.00
52	52	Supply & erection of Sand bucket/ Fire buckets complete set as per IS : 2546 (set of four nos. of 9 litre capacity)	Numbers	2.00	5000.00	10000.00
53	53	Supply & laying of Electrical insulated IS marked Insulated rubber mat 2m x 1m x 2cm.	Numbers	8.00	424.00	3392.00
54	54	Supply of Schematic Diagram in original along with 06 copies on A-0 papers of different locations showing superimposition of cable route, HT/ LT panels, transformers, location of tubular poles and all other electrical items and works.	Set	1.00	7202.00	7202.00
55	55	Supply & erection of Early Streamer Emission (ESE) Lightning Arrestor/ Protection system as per NFC 17-102 suitable for an apartment/building upto G+6 storied along with all necessary accessories such as Mounting Base, Conductor Shackle, Down Conductor, Earthing system, Lightning event counter etc.	Numbers	1.00	153000.00	153000.00
56	56	Supply of Residual Current Device with Socket 16Amp. with Steel Enclosure (SRCD DBOX) for Geyser point. (similar to Havells Cat. No. Havells SRCD WOCP Dboxx Steel Encl)	Numbers	24.00	1065.00	25560.00
57	57	Supply of Ding Dong Door Bell.	Numbers	24.00	325.00	7800.00
					Total	7930022.00
Schedule	Schedule I-Execution of all work as per schedule					
Item- 9	Erection of General Services Items					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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1	1	Erection, Testing and commissioning of Outdoor T y p e Distribution Transformer, Plinth Mounting type of Rating 250KVA/ 500 KVA, 11KV/433V, 3-phase, 50Hz, O i l Immersed, Non-Sealed type (Transformer tank body and cover are bolted), Copper wound, Primary Winding in Delta and Secondary Winding in Star (Vector symbol- Dyn11), ONAN Cooled Transformer. Conforming to IS 1180 (Part 1):2014 with amendment nos. 1,2,3,4 or latest.All tests performed as per CEGE guide line for EIG of Sub-Station Dated-17-12-2024. on site at the time of commissioning. (Transformer will be supplied by Railway)	Numbers	1.00	22529.00	22529.00
2	2	Erection, testing & commissioning of 11kV panel with 01 No VCB of capacity 3 PH, 11kV, 630Amps including copper bus bar all other associated accessories . (VCB Will be Supplied by Railway)	Numbers	3.00	23395.00	70185.00
3	3	Supply & erection of 110 mm or higher dia. HDPE pipe of grade PE-100 for HDD requirement including laying and jointing of HDPE Pipe with suitable size couplers, plugs, end caps, spacer, T band etc. with min depth of 3 mtrs/ as per the site conditions with proper tools, for cable running applications	Metre	500.00	819.00	409500.00
4	4	Supply & erection of 160 mm or higher dia. HDPE pipe of grade PE-100 for HDD requirement including laying and jointing of HDPE Pipe with suitable size couplers, plugs, end caps, spacer, T band etc. with min depth of 3 mtrs/ as per the site conditions with proper tools, for cable running applications	Metre	500.00	1642.00	821000.00
5	5	Erection and installation of wall hanging/ floor mounting type LED illuminated sign / direction boards in half elliptical shape. All specifications to be followed as mentioned in GEN.	Square Foot	50.00	384.00	19200.00

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6	6	Erection,testing & commissioning of FP 125 Amps MCCB,FP 200 Amps MCCB, main Switch fuse unit (rewireable type) 415V TP in sheet steel enclosure, 63Amps./100 Amps including necessary masonry work and supply & fixing of all types of cable gland, cable sockets, lugs, requisite nuts & bolts,with rain shed protection etc ,,	Numbers	18.00	882.00	15876.00
7	7	Fixing and commissioning of Cable loop box (of fibre body) for 3-Phase incoming and outgoing connection consists of 3-Phase and neutral terminal and 15/16 Amps K-fuse and all other accessories with proper termination of cables through glands and fixing with 25 X 3 mm MS flat bar.	Numbers	20.00	90.00	1800.00
8	8	Erection of LED 2x18/20W T-8 indoor type Tube Light fitting of including supply & erection of necessary clamps & masonry work,	Numbers	30.00	90.00	2700.00
9	9	Erection of 1x18/20W T-8 impact proof, surface mounting IP65 LED Tube Light fitting with masonry work.	Numbers	140.00	77.00	10780.00
10	10	Erection of Energy efficient (5-star rating) AC ceiling fan with regulator and all accessories	Numbers	80.00	163.00	13040.00
11	11	Erection of Exhaust fan with all accessories, including masonry work.	Numbers	30.00	154.00	4620.00
12	12	Erection,testing & commissioning of MCB DB i n c l u d i n g necessary masonry work and supply & fixing of all types of cable gland, cable sockets, requisite nuts & bolts etc.	Numbers	58.00	556.00	32248.00
13	13	Erection, testing & commissioning of service main energy meter DB including necessary masonry work and supply & fixing of all types of cable gland, cable sockets, requisite nuts & bolts etc.	Numbers	25.00	556.00	13900.00
14	14	Erection of Hot dip Galvanised Octagonal street l i g h t pole with all accessories of including earth connection & Erection of LED street light fitting with wiring from MCB to light fitting.	Set	60.00	1850.00	111000.00
15	15	Erection of LED Street Light/ Outdoor Light Luminair on wall/ structure/ shed (except Octagonal/SST Pole) with all accessories for fixing.	Numbers	20.00	436.00	8720.00

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16	16	Erection & termination of HT Heat shrinkable type indoor / outdoor end termination/Straight through cable jointing kit.	Numbers	10.00	1396.00	13960.00
17	17	Excavation of earth in any kind of soil & Erection, testing & commissioning of Earth cone as per Drawing No. CEE/G/A3/P-134.	Numbers	40.00	1101.00	44040.00
18	18	Erection/ Laying of GI pipe 3"/4" dia with socket/ clamp for laying /vertical lifting of cable	Metre	100.00	74.00	7400.00
19	19	Erection of MCB 16-25A 10KA with 3/5 pin 15A modular type socket with starter in a enclosure for A.C point similar to DHUCDP0253016-25 with complete wiring.	Numbers	75.00	93.00	6975.00
20	20	Erection,testing & commissioning of Triple pole 11 KVx400 A Capacity gang operated air break switch complete with insulator, DO fuse, support channel, clamps for fixing in 4 pole/DP structure along with operating handle and locking arrangement etc.	Set	2.00	3044.00	6088.00
21	21	Erection of 11 KV LA complete set with mounting hardware arrangement, metal oxide type (1Set consists of 3 Nos. LA) Make Rly. approved brand.	Set	4.00	545.00	2180.00
22	22	Erection of Busbar Chambers IP-43 wall mounting type including rainshed protection (for outdoor installation) fabrication work,necessary cable termination & masonry work,	Numbers	15.00	1383.00	20745.00
23	23	Erection of GI Flate of size 40mm x 3mm for Earthing of all structure and vital equipment including required nut, bolts & sockets etc.	Metre	100.00	73.00	7300.00
24	24	Erection of 33KV/ 11KV/ LT pin/ disc/ shackle insulator complete with pin,clamp,stalk etc. complete with all accessories.	Numbers	24.00	157.00	3768.00
25	25	Erection of bulk head fitting complete with LED lamp of 9 10 watt with all accessories.	Numbers	25.00	96.00	2400.00
26	26	Erection, testing & commissioning of Control box or Panel for Street Light including supply & erection of all fixing bolts, cable termination and masonry work.	Numbers	4.00	1453.00	5812.00

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27	27	Erection,testing & commissioning of out door type (Rain water tight) Feeder Pillar/ Location box floor/ plinth mounted type including necessary masonry work & cable termination work.	Numbers	3.00	5911.00	17733.00
28	28	Supply , fixing, wiring & commissioning of PVC concealed conduit/ PVC conduit surface/ casing capping wiring by PVC FRLSH insulated copper cable 1100 V grade 1.5 Sq.mm through PVC conduit with running earth by 14SWG tinned copper wire/ 1.5sqmm copper wire through out the wiring including supply and fixing of hot deep GI sheet concealed Modular switch board , M o d u l a r switch, socket & electronic fan regulators, ceiling rose/holderetc. (a) Light, Bell & Fan point wiring with 6 Amp, Modular switch with Metal back Plate etc.	Point	450.00	993.00	446850.00
29	29	Supply , fixing, wiring & commissioning of PVC concealed conduit/ PVC conduit surface/casing capping wiring by PVC FRLSH insulated copper cable1100 V grade 2.5 Sq.mm throughPVCconduit with running earth by14SWG tinned copper wire/ 2.5sqmm copper wire through out the wiring including supply and fixing of hot deep GI sheet concealed Modular switch board , M o d u l a r switch, socket & electronic fan regulators, ceiling rose/holderetc. (b)5/6 Amp., 3/5 pin plug socket point wring with 6 Amp, Modular type switch with Metal back Plate & socket.	Point	120.00	449.00	53880.00

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30	30	Supply , fixing, wiring & commissioning of PVC concealed conduit/casing capping wiring / PVC conduit pipe wiring by PVC FRLSH insulated copper cable 1100 V grade from the nearest DB along with running earth of 4sqmm copper wire through out the wiring including supply and fixing of hot deep GI sheet concealed switch board for Modular switch, socket and other wiring materials to make the work a complete unit.(c) 15 Amp plug socket point wiring by 4 Sq.mm PVC FRLSH insulated copper cable with 16 Amp, Modular type Metal back Plate switch & socket, etc.	Point	160.00	1445.00	231200.00
31	31	Supply & fixing,wiring & commissioning of PVC concealed conduit/PVC conduit surface /casing capping wiring by 2 Nos 4 sqmm PVC FRLSH insulated copper cable 1100V grade through PVC conduit with running earth by 4 sqmm copper wire through out the wiring for drawing/extension of supply from Main DB/Bus bar chamber to service main board/Circuit DB/Air conditioner point by 4sq.mm cable. Note-(Quantity per meter means: one meter conduit with two meter 4sqmm PVC FRLSH insulated copper cable & one meter 4 sqmm copper wire for running earth)	Metre	2500.00	334.00	835000.00
32	32	Supply & fixing,wiring & commissioning of PVC concealed conduit/PVC conduit surface /casing capping wiring by 2 Nos 2.5 sqmm PVC FRLSH insulated copper cable 1100V grade through PVC conduit with running earth by 14SWG tinned copper wire/1.5 sqmm copper wire through out the wiring for drawing/extension of supply from Main DB/Circuit DB to switch board/Circuit DB by 2.5 sq.mm cable. Note-(Quantity per meter means: one meter conduit with two meter 2.5sqmm PVC FRLS insulated copper cable & one meter 2.5 sqmm copper wire for running earth).	Metre	1500.00	275.00	412500.00

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33	33	Supply & fixing,wiring & commissioning of PVC concealed conduit/PVC conduit surface /casing capping wiring by 2 Nos 6 sqmm PVC FRLSH insulated copper cable 1100V grade through PVC conduit with running earth by 6 sqmm copper wire through out the wiring for drawing/extension of supply from Main DB/Bus bar chamber to service main board/Circuit DB Note-(Quantity per meter means: one meter conduit with two meter 6sqmm PVC FRLSH insulated copper cable & one meter 6 sqmm copper wire for running earth)	Metre	1200.00	439.00	526800.00
34	34	Laying of HT/LT cable (Rly supplied) along the road and refilling of excavated earth as per CEE/GRC's Drg No. CEE/G/PA3/134 including supply & erection of cable gland, pyramid/Flat sockets, requisite nuts & bolts & all allied works.	Metre	8000.00	182.00	1456000.00
35	35	Laying of HT/LT cable (Rly supplied) Across the road through GI/RCC/CI pipe and refilling of excavated earth as per CEE/GRC's Drg No. CEE/G/PA3/134 including supply & erection of cable gland, pyramid/Flat sockets, requisite nuts & bolts & all allied works.	Metre	600.00	378.00	226800.00
36	36	Erection of cable In the air, fixing on wall,through pipe/drain rail, structure with MS clamp with nut & bolt.	Metre	1000.00	40.00	40000.00
37	37	Laying of extra cables in the excavated same trench duly following GEN.	Metre	2000.00	21.00	42000.00
38	38	Excavation of trench in all kinds of soils ,concrete including soft rocky area and clearing of roots oftrees, bushes, rocks, blast etc., to a depth of 1m & width 0.3m including supply and laying of Double wall Corrugated Pipe with collars of 103mm inner dia and 120 mm outer dia with couplers and sockets as per RDSO specf. No RDSO/SPN/204/2011/Ver.1.1 Supply of one coupler for 6m of DWC Pipe and two couplers for 30m of length included.	Metre	500.00	528.00	264000.00

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39	39	Boring/punching of underground crossing of Railway track/road with pipe pushing by HDD technology & crossing HT/LT power cable below railway track/road through pipe. Note: The boring profile should be recorded and submitted for verification of depth and length of boring	Metre	1200.00	1422.00	1706400.00
40	40	Concrete for foundation in 1:3:6 ratio in any kind of soil including excavation and supply of all materials viz. sand, cement and ballast for TR plinth/SST pole/Rail Pole//Pillar Box/fencing panel/structure etc.	cum	40.00	4878.00	195120.00
41	41	Dismantling and removal of existing overhead LT/HT line with accessories. Note: Here Each Span means Span.	Each Span	15.00	420.00	6300.00
42	42	Dismantling / Shifting of Rail Pole/SST pole/GI/MS Structure/Location box/Control Panels/Busbar chamber/DB/Pre-cooling socket/Lavolite Transformer/Battery charger etc including associated cables, light fitting & wiring with gas cutting or any other means without appreciable damage.	Numbers	16.00	653.00	10448.00
43	43	Transportation of Railway supply materials from Railways depots in CKP/ADA/KGP/RNC division to site of work with lead	MT	15.00	5690.00	85350.00
44	44	Supply and erection of RCC make cable route marker size L-12" ,B-6" , H-30".	Numbers	50.00	857.00	42850.00
45	45	Supply & Installation of Standard enameled 33/11 KV/400 Volt danger board size 6x"8" as per IS:255 having impression of skull & bone with written "DANGER" 11000/ 400 Volt 2/2 Hindi, English & local language.	Numbers	10.00	286.00	2860.00
46	46	Supply & erection of Galvanized stay set as per IS: 2141 - 2000, for overhead line complete with 19/20mm dia x 1.8 M long stay rod, anchor plate of 45 cm x 45 cm x 7.5 mm, thimble stay clamps, turn buckle (20 mm x 600mm) 7/4 mm dia GI stay wire with guy insulators complete with all accessories.	Set	6.00	4318.00	25908.00

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47	47	Supply Erection, fabrication & painting of Miscellaneous iron work MS angle, flats, channel required nut, bolts etc. for Small steel parts except rail pole for Fabrication of cable tray/ Cross arms channel/ 4pole/ 2 pole structures etc.	MT	1.00	70001.00	70001.00
48	48	Erection, testing & commissioning of (a) Hot dip galvanized flange mounted type polygonal tapered type High mast of 20M long nominal mounting height complete with all necessary accessories including LED Flood Light luminaire (200W, 12Nos in each mast). And (b) Outdoor stand mounted Feeder Pillar complete with all necessary accessories including foundation of high mast & Feeder Pillar as per approved drawing.	Set	4.00	25066.00	100264.00
49	49	Erection of Outdoor type LED light fitting (IP-66) for front lighting 70-100W/190-200W flood light (exclusive of high mast), suitable for voltage 230V AC complete with driver and all other accessories.	Numbers	22.00	676.00	14872.00
50	50	Erection of recess mounted LED panel light 10-12 Watt with driver including electrical connection, supply & erection of necessary clamps & masonry work.	Numbers	10.00	34.00	340.00
51	51	Installation and commissioning of Gyeser 15L Capacity including electrical connection, wiring & necessary masonry work/ plumbing connection work.	Numbers	3.00	1359.00	4077.00
52	52	Fabrication, erection & installation of Wire Mesh type Cable tray of Stainless Steel, 300mm width with SS fixing bracket, coupler & bend plat with suitable SS nut, bolt & washer etc.	Metre	70.00	68.00	4760.00
53	53	Erection of 1.1 KV 3.5/4 CORE50/70/ 95/120 sq.mm L T straight through heat shrinkable kit.	Numbers	14.00	218.00	3052.00
54	54	Erection of IP65 junction box with lugs,spreader link and cable gland.	Numbers	22.00	1297.00	28534.00
55	55	Erection of CLS panel with lugs,spreader link and cable gland.	Numbers	6.00	4676.00	28056.00
56	56	Erection of programmable timeswitch 24 Hrs code with contractor 3 pole with AC coil i.e Amp-32 make Havells or Similar.	Numbers	6.00	264.00	1584.00

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57	57	Installation testing and commissioning of single/three phase Submersible pump set for use in bore wells for handling clear cold water with pump controller/starter as per site requirement,including lowering/laying of pipe, RR Rope12mm, FLAT CABLES with flexible copper conductor.	Set	2.00	8936.00	17872.00
58	58	Erection of Plug & Socket Board, in 3P&N enclosure with 3-pole + SC (scraping earth) Socket with 4P MCB of rating 32 A.	Numbers	4.00	82.00	328.00
59	59	Installation and commissioning of 1.5/2 Ton split Air Conditioner with rotary compressor including electrical connection, additional copper pipe (if required) wiring & necessary masonry work. (Split A.C will be supplied by Railway)	Numbers	10.00	2421.00	24210.00
60	60	Supply & installation of mobile charging arrangement consisting with 04 nos. 5Amp. modular plug socket 240V 50Hz., 04nos. 6 Amp. modular switch along with indicator and fuse.	Set	10.00	1315.00	13150.00
61	61	Erection,testing & commissioning of LT ACB panel with appropriate spreader link for MCCB ,Cable gland & necessary item for seal the cable entry and outgoing point and complete the job including necessary masonry work & cable termination work.	Numbers	1.00	9860.00	9860.00
62	62	Erection of Residual Current Device with Socket 16Amp.with Steel Enclosure (SRCD DBOX) for Geyser point. (similar to Havells Cat. No.Havells SRCD WOCP Dboxx Steel Encl)	Numbers	24.00	83.00	1992.00
63	63	Erection of Ding Dong Door Bell	Numbers	24.00	32.00	768.00
64	64	Erection including supply of Fabricated Fencing Uprights as per RDSO approved Drawing No.ETI/C/0186, painted with two coats of red oxide zinc chromate primer and finished with two coats of Aluminum paint to IS;2339 including barbed wire.	Each	18.00	2570.00	46260.00

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65	65	Erection including supply of Fencing Panels as per RDSO approved Drawing , painted with two coats of red oxide zinc chromate primer and finished with two coats of aluminum paint IS:2339	Metre	48.00	2738.00	131424.00
66	66	Erection including supply of Gates including locking device as per RDSO approved Drawing No.ETI/PSI/121. The gates will be painted with two coats of red oxide zinc chromate primer to IS: 2074 and finished with two coats of aluminum paint as per particulars specified in para 2.6.12 and IS:2339. NOTE: All fasteners, bolts, nuts, locknuts and washers etc. required for assembly and fixing of steel work shall be galvanized.	Metre	4.00	4227.00	16908.00
67	67	Earthwork in filling for embankment of building, low laying area, etc. in all classifications of soil as directed by Engineer in charge. The rate is inclusive of all labour and materials, machineries etc. with all lead, lift, descent, ascent, loading, unloading royalty, all taxes, tools and plant, breaking clods, dressing to final profile and dimensions etc. complete. The work is to be executed with contractor's earth of approved quality and specifications. The rate is also applicable for cutting of earth and levelling.	cum	6.00	177.00	1062.00
68	68	Supply, spreading, levelling, watering and ramming of moorum.	cum	4.00	223.00	892.00
69	69	Supply, spreading and levelling of 20mm down graded ballast, padding 150mm	cum	6.00	675.00	4050.00
70	70	Dismantling of high mast tower/ lattice tower with all accessories as per site requirements up to 30mtr and deposition to store.	Numbers	2.00	26000.00	52000.00
71	71	Erection, fabrication , fixing including Supply of copper strip (25 x 3mm) for Earthing of transformer and to vital equipment including required nut, bolts, sockets etc.	Metre	30.00	812.00	24360.00
					Total	8906441.00
Schedule	Schedule J-Execution of all work as per schedule					
Item- 10	Earthwork & Foundation for OHE					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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1	1	Concrete for foundation and plinth in all type of soil including hard/rocky soil (including excavation and supply of all materials viz., sand, cement, and ballast etc.)	cum	300.00	9425.00	2827500.00
					Total	2827500.00
Schedule	Schedule K-Execution of all work as per schedule					
Item- 11	S&T SOR Execution					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Excavation of trench in all kinds of soils including soft rocky area and clearing of roots of trees, rocks, bushes, ballast & reconditioning etc., including bailing out water and disposal of extra soil including back filling with excavated earth and ramming of trenches after cable laying for the following depths and widths as specified in Technical Circular No. 2 of 1988 & 01/2010 issued by CSTE/SER or any other latest guidelines. Note: In case, trenches are other than prescribed depth & width, Proportionate payment shall be released. Depth 1.2 meter, Width 0.5 meter.	Kilometre	5.00	95893.00	479465.00
2	2	Excavation of trench in all kinds of soils including soft rocky area and clearing of roots of trees, rocks, bushes, ballast & reconditioning etc., including bailing out water and disposal of extra soil including back filling with excavated earth and ramming of trenches after cable laying for the following depths and widths as specified in Technical Circular No. 2 of 1988 & 01/2010 issued by CSTE/SER or any other latest guidelines. Note: In case, trenches are other than prescribed depth & width, Proportionate payment shall be released. Depth 1.0 meter, Width 0.3 meter..	Kilometre	13.00	79869.00	1038297.00

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3	3	Excavation of trench in all kinds of soils including soft rocky area and clearing of roots of trees, rocks, bushes, ballast & reconditioning etc., including bailing out water and disposal of extra soil including back filling with excavated earth and ramming of trenches after cable laying for the following depths and widths as specified in Technical Circular No. 2 of 1988 & 01/2010 issued by CSTE/SER or any other latest guidelines. Note: In case, trenches are other than prescribed depth & width, Proportionate payment shall be released. Depth 0.8 meter, Width 0.3 meter.	Kilometre	2.60	70930.00	184418.00
4	4	Excavation of trenches including clearing of roots of trees etc. in hard/rocky soil by chiselling up to a depth of 0.5 meter to 0.8 meter and width 0.3 meter at the bottom. Supply & placing split RCC pipes with collar (for jointing pipes) of 100 mm nominal diameter to Spec. No. IS: 10262-2019 or latest and IS-456-2000 as per SEM Drawing No. 15 D3 (Sheet-2) on sieved soil of 30 mm over cable and concreting(1:2:3) throughout the length upto a layer of 75mm approximately, then back filling the trench by digging and carrying earth from a distance of maximum 30 meters and then ramming of soil after cable laying. This also includes supply of collar and all the materials for concreting by the contractor.	Metre	650.00	589.00	382850.00

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5	5	Excavation of trench in all kinds of soils including soft rocky area and clearing of roots of trees, rocks etc. to a depth of 1 metre and width 0.3 metre. Track/Pucca road/Platform crossing/Level crossing as per SEM Drawing No.15-D5 or latest including supply, transportation and laying of RCC Pipes (full) with collar (for jointing pipes) Inner diameter/Outer diameter: 100mm/150mm to Specification No. IS:10262-2019 or latest and IS 456-2000. RCC structural drawings should be as per SEM Drawing No. 15-D3 (Sheet-2) and drawing of cable through RCC Pipes with collar (for jointing pipes) including back filling and ramming after cable laying as specified in Technical Circular No. 2 of 1988 & 01/2010 issued by CSTE/SER for S&T Cables or any latest guidelines. This includes repairing and plastering of platform/pucca road after cable laying.	Metre	650.00	1211.00	787150.00
6	6	Excavation of trench in all kinds of soils including soft rocky area and clearing of roots of trees, rocks etc. to a depth of 1 metre and width 0.3 mtr. Track/ Pucca road/Platform crossing/Level crossing as per SEM Drawing No.15-D5 including supply, transportation and laying of DWC pipes (full) with collar(for jointing pipes) Inner diameter/Outer diameter:103mm/120mm to Specification No.14830 (Part-2):2001 as per SEM Drawing No. 15-D4 and drawing of cable through DWC pipes with collar(for jointing pipes) including back filling and ramming after cable laying as specified in Tech. Circular No. 2 of 1988 & 01/2010 issued by CSTE/SER for S&T Cables or any latest guidelines. This includes repairing and plastering of Platform/Pucca road after cable laying.	Metre	2600.00	691.00	1796600.00

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7	7	Cutting and smoothening of inside surface of sizes 80 mm deep and 170 mm width for single/multiple cable chase in concrete or hard rocks or platform or cemented floor. This work includes laying and covering of cable laid in the chase with standard sizes Second class/Fly Ash brick placed and embedded longitudinally and plastered on the top of the bricks and curing 72 hrs. as per Drawing No. Con/SK/T/1 Note: Sundries materials such as Bricks, sand, cement etc., shall be supplied by the contractor at site and to be inspected by Railway Site Engineer before placing in the chase. Note: In case, chase cutting & smoothening are other than prescribed depth & width, Proportionate payment shall be released.	Metre	650.00	256.00	166400.00
8	8	Supply, transportation and fixing of Galvanised Iron Pipe (make: TATA/Jindal or better) with threaded collars (for jointing pipe) of 80 mm nominal bore Specification No. IS: 1239, Pt-1, 2004 thickness 3.2 mm medium grade, on bridges, culverts, drain or at places as per instruction of the site Engineer including supply and transportation of materials required for fixing the pipe as per SEM Drawing No.15-D7 on culverts and others including drawing of cables inside the pipe with masonry work at bridge entry and exit of the culvert and curing for 72 hours and pipes are to be clamped at max. 2 meter apart with drilling of holes on the pipe at 10 cm apart for S&T Cables. Note:- This also includes dismantling of released GI Pipe/Trough and released material should be returned at concerned store.	Metre	1300.00	1018.00	1323400.00
9	9	Transportation of cables in rolls with or without wooden drums (S&T Cables) from concerned store to the site of works. Note: Here Kilometer means Drum-KM	Kilometre	72.00	2328.00	167616.00

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10	10	Laying of S&T Cables (Signal/Quad/Power) in the excavated trench to Drawing No. CON/SK/T/5 or latest. Supply and transportation of 'U' clamps, anchoring of cable at every 10 metres interval with 'U' clamp on trench to Drawing No. CSTE/CON /CABLES/81 or latest. Supply, transportation, and placing of cable demarcating led belt to Drawing No. CON/SK/T/6 or latest punched at an interval of 30 metres and wrapped round each cable throughout the cable route and also at every track/Road/ platform crossing as above specified i n Technical Circular No. 2/1988 & 01/2010 issued by CSTE/SER or as per latest guidelines and guarding the cables. Collecting empty drums with left over cable and to be returned to the stores of stock holder. Note: Cables will be meggered before & after its laying by contractor under supervision of Railway representative & Contractor will submit their reports.	Kilometre	72.00	20239.00	1457208.00
11	11	Transportation including loading/unloading of Optical Fibre Cable along with HDPE pipe from the stores of SSE/Store or from any store of SE Railway to the site with care laying of HDPE pipe & blowing of OFC in it as per procedure and returning empty cable drums with or without left over cable to the stores of SSE/Store. It also includes supply and placing of warning & Detection tape orange colour of 100 mm wide printed in black as "CAUTION OFC CABLE" and laid throughout the trench as directed by the Representative of Railway. Note: OTDR of cables will be done before & after its laying by contractor under supervision of Railway representative & contractor will submit their reports.	Kilometre	18.00	34734.00	625212.00

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12	12	Execution of Full Apparatus Case with earth excavation for pit, concrete foundation, surrounding earth work, erection and installation as per Drawing No. Con/SK/T/8 or latest and wiring to be done as per SEM Drawing No.19-D8 or as per direction of site engineer. Supply and fixing of Hylam sheet strip of appropriate size of 3 mm or 6 mm as required with hole for fixing of terminals, fuse blocks, relay and other accessories for signal/track circuit, termination of cable with number embossed ferrules, bunching of cables with PVC tape, proper soldering of cable armour with earth catenary wire, earthing of cable armour as required. Writing & terminal description including Painting of the apparatus case inside and outside after clearing the surface thoroughly and first coating of anticorrosive paint and subsequent two coats of Aluminium paint outside and red oxide inside and lettering etc. This also includes transportation of 25 mm/12mm Hylam sheet for shelf or as required and also includes minor modification in L/Boxes as per site requirement. The contractor shall supply 4 no. of foundation nuts & bolts of size 22 mm dia. x 450 mm long with 2 flat spring washers, with each nut & bolts, sand for filling up cable pit inside the apparatus case including plaster and bolts, nuts, screws, MS Clamps for fixing equipment/cable. Note: - Part payment shall be released after completion of- (i) Foundation- 40%, (ii) Erection - 10%, (iii) Wiring, earthing, testing - 20%, (iv) Painting, writings - 10%, (v) Plastering, sand filling & etc. - 10%, (vi) Commissioning - 10%	Numbers	20.00	9147.00	182940.00
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13	13	Execution of Half Apparatus Case with earth excavation for pit, concrete foundation, surrounding earth work,erection and installation as per Drawing No. SEM, 19-D2 or latest and wiring as per SEM Drawing No.19-D9 or as per direction of site engineer. Supply & fixing of Hylam sheet strip of appropriate size of 3mm/6mm as required with hole for fixing of terminals, fuse blocks, relay and other accessories for signal/track circuit, termination of cable with number embossed ferrules, bunching of cables with PVC tape, earthing of cable armour as required. Writing & terminal description including Painting of the apparatus case inside and outside after clearing the surface thoroughly and first coating of anticorrosive paint and subsequent two coats of Aluminium paint outside and red oxide inside and lettering etc. This also includes transportation of 25 mm/12mm Hylam sheet for shelf or as required and also includes minor modification in L/Boxes as per site requirement. The contractor shall supply 4 no. of foundation nuts & bolts of size 22 mm dia. x 450 mm long with 2 flat spring washers, with each nuts & bolts, sand for filling up cable pit inside the apparatus including plaster and bolts, nuts, screws, MS Clamps for fixing equipment/cable. Note: - Part payment shall be released after completion of- (i) Foundation- 40%, (ii) Erection - 10%, (iii) Wiring, earthing, testing - 20%, (iv) Painting, writings - 10%, (v) Plastering, sand filling & etc. - 10%, (vi) Commissioning - 10%.	Numbers	20.00	7032.00	140640.00
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14	14	Execution of Quarter size Apparatus Case with earth excavation for pit, concrete foundation, surrounding earth work, erection and installation as per Drawing No. SEM, 19 D2 or latest and wiring as per site requirement. Supply and Fixing of Hylam sheet strip of appropriate size of 3 mm/6 mm as required with hole for fixing of terminals, fuse blocks, relay and other accessories for signal/track circuit, termination of cable with number embossed ferrules, bunching of cables with PVC tape, earthing of cable armour as required. Writing & terminal description including Painting of the apparatus case inside and outside after clearing the surface thoroughly and first coating of anticorrosive paint and subsequent two coats of Aluminium paint outside and red oxide inside and lettering etc. This also includes transportation of 25 mm/12mm Hylam sheet for shelf or as required and also includes minor modification in L/Boxes as per site requirement. The contractor shall supply of 4 no. of foundation nuts & bolts of size of 22 mm dia. x 450 mm long with 2 flat spring washers with each nuts & bolts, sand for filling up cable pit inside the apparatus case including plaster and bolts, nuts, screws, MS Clamps for fixing equipment/ cable. Note: - Part payment may be released after completion of- (i) Foundation- 40%, (ii) Erection - 10%, (iii) Wiring, earthing, testing - 20%, (iv) Painting, writings - 10%, (v) Plastering, sand filling & etc. - 10%, (vi) Commissioning - 10%.	Numbers	5.00	4576.00	22880.00
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15	15	Transportation and installation of 2-Aspect Signal Post for MACLS as per drawing no. Con/SK/T/12 or SEM-Drawing No. 19-D3 or RDSO/M-00011RU dated 12.01.18 or latest complete with signal units, base, ladder and other fittings, excavation of earth pit, casting concrete foundation, erection of posts, thereof as specified in the note given in drawing, fixing of complete fittings of the signals with necessary earth screen protection arrangement as required including termination of cables, painting and lettering as required. Foundation nuts & bolts of appropriate size as per above drawings or latest as per RDSO Drawing No. SA-116 A/M confirming to IS: 226 and IRS:S-10/78 Rev.8. or latest to be supplied.	Numbers	1.00	10788.00	10788.00
16	16	Transportation and installation of 3/4 - Aspect Signal Post for MACLS as per Con/SK/T/12 or SEM-Drawing No. 19-D3 or RDSO/M-00011RU dated 12.01.18 or latest complete with signal units, base, ladder and other fittings, excavation of earth pit, casting concrete foundation, erection of posts, thereof as specified in the note given in drawing, fixing of complete fittings of the signals with necessary screen protection arrangement including termination of cables, painting and lettering as required. Foundation nuts & bolts of size appropriate size as per above drawings or latest as per RDSO Drawing No. SA-116 A/M confirming to IS: 226 and IRS:S-10/78 Rev.8. or latest to be supplied.	Numbers	3.00	11520.00	34560.00

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17	17	Transportation, installation of Position light Shunt Signal as per Con/SK/T/13 or SEM Drawing No. 19-D4 or latest complete with units, base and other fittings, excavation of earth pit, casting of concrete foundation thereof as per note given in drawing, fixing in complete fittings of signal including termination of cables, painting and lettering as required. Foundation nuts & bolts of size 20 mm x 305 mm as per RDSO Drawing No. SA-110 A/M confirming to IS: 226 and IRS:S-10/78 Rev.8.	Numbers	1.00	5101.00	5101.00
18	18	Transportation, Installation, Wiring, Testing & Commissioning of LED Signals Lamps for Main signals Lighting Unit (i.e. Red/Yellow/Green) as per instruction of railway Engineer at the site. Note: LED particulars such as aspect, make, type, Sr. No. etc. to be recorded in proper in proper register.	Numbers	12.00	1099.00	13188.00
19	19	Transportation, Installation, Wiring, Testing & Commissioning of LED Signals Lamps for Subsidiary signals lighting unit (i.e. Route aspect/Shunt Signal/Calling on aspect/A marker/AG marker etc.) as per instruction of railway Engineer at the site. Note: L E D particulars such as aspect, make, type, Sr. No. etc. to be recorded in proper register.	Numbers	3.00	926.00	2778.00

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20	20	Alterations/modifications works on existing relay rack (Q-series/ Composite Relay Racks)/Cable Termination Racks (CTR) including works of installation, wiring, termination, testing and commissioning. The work includes fixing of aluminium/steel/M. S ladder along with supply as per requirement to accommodate additional plug board, relays, terminals/blocks, terminals, tag blocks, fuses, transformers, bus bars, TW shelves/strips etc. in the existing relay racks/CTR's, 6 mm Hylam sheets of required length for writing terminal description etc. fixing and termination of cables on the relay racks, CTR's with number embossed ferrules, bunching of cables with PVC tapes, earthing of cable armours, covers including painting and lettering, making anti tilting arrangement. Note:- a) R e l a y rack (Q-series/ Composite Relay Racks) : Payments for alterations in existing relays upto 20 nos. relays & above 20 nos. shall be made 50% & 100% respectively. b) Cable Termination Racks (CTR):- Payments for alterations in existing CTR upto 120 cores & above 120 nos. cores shall be made 50% & 100% respectively.	Numbers	6.00	21225.00	127350.00
21	21	Alteration/modification in existing location boxes, includes fixing/Removal or both the equipment, cable insertion, termination, wiring, testing & commissioning, two coat painting, lettering to suit the circuits as per approved wiring diagram. This includes filling with sand and plastering the same. Note: All the sundry materials such as paint, sand, cement, screws etc to be supplied by the contractor.	Numbers	40.00	2734.00	109360.00
22	22	Alteration/Modification, testing, commissioning, two coat painting, wiring, lettering of the existing Multi aspect signals/Shunt/Calling-On Signals to suit the circuit as p e r approved wiring diagram.	Numbers	20.00	2692.00	53840.00

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23	23	Cement Concrete of proportion 1:2:4 (Cement: Sand: Stone chips of 20mm nominal size) for miscellaneous works. It includes excavation, ramming of CC by using vibrator, curing and plastering with cement and sand mixture (aggregate will not exceed beyond 3.8 cm). Note: All materials required for foundation are to be supplied by the contractor.	cum	40.00	4145.00	165800.00
24	24	Transportation, installation and wiring of Rotary key transmitters/KLCR on Hylam sheet board including wiring & fixing of push button bell switch on Hylam sheet of 1 2 m m including termination, painting & lettering. The sundry materials such as Hylam sheet, push bell switch etc. to be supplied by contractor.	Numbers	10.00	1553.00	15530.00
25	25	Removal of normally 13m Rail in the way of cable route trench, signal/location box foundation, track crossing etc. In case of less or more than 13 m, proportionate payment to be done. These obstructions will be removed by the contractor for ensuring proper execution of related works.	Numbers	400.00	117.00	46800.00
26	26	Removal of PSC/Wooden/Steel sleeper in the way of cable route trench, signal/location box foundation, track crossing etc. These obstructions will be removed by the contractor for ensuring proper execution of related works. Note: In case of broken sleepers, proportionate payment will be made.	Numbers	400.00	118.00	47200.00

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27	27	Shifting of HASSDAC/SSDAC from old location and installation, wiring, testing and commissioning in new axle counter room/ location box. This includes fixing of DPs at site if shifting required, evaluator in relay room/ location box or goomtys together with termination of cables, fixing and wiring of LV boxes, painting, lettering etc as r e q u i r e d . Necessary insertion/modification on the control/ indication panel to be carried out as per site condition. Note: 1 set means one end of the block section.	Set	8.00	22461.00	179688.00
28	28	Excavation of earth pit, placing & fixing of Earth electrode with construction of cement enclosure to SEM Drawing No. 19-D6 and drawl of 6 SWG GI/Copper cable from earth electrode to goomtys/relay room/cabin/station, etc. and drawl of MS flat 35mm x 6mm for signal post/Location box shall be used as the case may be, including fixing at both ends of the wire/MS flat. This includes transportation of materials. Note: Materials such as charcoals, salt, sal ammoniac, 6 SWG GI wire, copper lugs with Steel bolts & nuts etc. shall be supplied by the contractor. MS flat 35mm x 6mm/Copper cable shall be supplied by Railway.	Numbers	20.00	1791.00	35820.00

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29	29	Installation of Single Maintenance Free Earth pit as per RDSO Drawing No. SDO / RDSO/ E&B/001 which includes the following, a) Digging/Auguring/Boring of single earth pit of 100mm to 125mm dia. to the depth of approx. 3 meter. b) Insertion of 3.0 meter electrode and penetrating it minimum 150 mm by pushing gently with sledge hammer where the natural soil is assumed. (c) Filling of earth pit with Earth Enhancement Compound (EEC) in slurry form and backfilling. (d) Carrying out exothermic weld connection on single earth electrode to a copper tape of 200 x 25 x 6 mm. (e) Carrying out exothermic weld connection on the copper tape of 200 x 25 x 6 mm on Earth Electrode for connecting two 35 Sq. mm cables for redundancy. (f) The exothermic welding material for bonding the earth system shall be procured from RDSO approved firms, which includes graphite modules, clamps, weld metal powders etc. (g) The dimension of the chamber will be of 300 x 300 x 300 mm (inside dimension) of RCC with 50mm thick and fine finish, Inspection chamber should be as per IEC 62561-5 or latest. The top RCC cover size shall be 400 mm X 400 mm X 50mm. The date of testing and earth resistance value shall be written on the cover with black base with yellow paint or as per instruction of site engineer.	Set	3.00	6098.00	18294.00
30	30	Splicing of Optical Fiber Core and routing in joint closure/FDMS as per instruction of site Engineer. Note: Here Each means Core	Each	864.00	152.00	131328.00

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31	31	Supply, transportation and installation of RCC joint chamber with two piece top cover and bottom cover with holes for drainage and cable entry, as per Drawing No. RDSO/TCDO/COP-21 or latest. This includes trenching for jointing pit of size min 1.5 m X 1.5 m X 1.2m for all types of soils, back filling and ramming of the pit after placing the joint closure and cable loop in the chamber including dry sand upto 600mm height without causing any damage to same and consolidation of soil as well as disposal of excess soil.	Numbers	20.00	4811.00	96220.00
32	32	Execution of Straight joint on Quad cable/ jelly filled Telecom cable using Thermo shrink/Universal jointing kit (RTSF). This includes excavation of cable joint pit of size 1.5 m X 1.5 m X 1.2 m for jointing of cables, back filling and ramming after jointing. After jointing, the cable through test such as insulation test, continuity test etc. to be carried out jointly with Railway Engineer. If any defect or any damage is observed during jointing the contractor has to redo the joint free of cost. Note: In case jointing is required to be done in the Location boxes, then 80% payment will be released.	Numbers	40.00	1437.00	57480.00
33	33	Transportation and fixing of following types of C.T. Box (Aluminium/Wago type) and termination of cable as per details of jointing schedule approved by the Railway Engineers. 20 pair C.T. Box/Krone type DP Box	Numbers	2.00	916.00	1832.00
34	34	Physical tracing and opening/locating of existing working cables by precision digging for diversion of cables in connection with cable clearance for engineering earth work or for utility shifting without interfering the circuits as per the advice of Railway site engineer.	Metre	6000.00	257.00	1542000.00

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35	35	Hiring of JCB/Hydra/Poclain machine in good working condition for earth cutting, levelling, dressing etc., of ground/dismantling structures including disposal of debris through dumpers/Shifting the location box or signal post with foundation etc. with contractor's labour including machine operator, fuel etc. Payment shall be made for actual working hours at site & proportionate payment to be made in case less than hours. Note: Vehicle shall not be more than 3 years old.	Hour	400.00	995.00	398000.00
36	36	Supply, transportation and installation of RCC joint chamber with two piece top cover and bottom cover with holes for drainage and cable entry, as per Drawing No. RDSO/TCDO/COP-21 or latest. This includes trenching for jointing pit of size min 1.5 m X 1.5 m X 1.2m for all types of soils, back filling and ramming of the pit after placing the joint closure and cable loop in the chamber including dry sand upto 600mm height without causing any damage to same and consolidation of soil as well as disposal of excess soil.	Numbers	20.00	4811.00	96220.00

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37	37	Protection, adjustments and reinstating of S & T gears by deputation of Fitter/wireman /Painter/welder/Mason/cable jointer i.e., Skilled labour for executing additional Signalling & Telecom portion of the works. The work can involve fixing, r e l e a s i n g , dismantling, replacement, painting or alteration of various signalling assets or parts, termination of cables, minor patch work on damages at location box, Plastering, concreting brick work, wiring alterations, cable jointing etc. as per instruction of Railway representative at site. The contractor has to carry materials to field and the released materials from site has to be taken back to the concerned SSE/Signal store. The contractor has to arrange necessary tools for carrying out the work as per Railway representative instruction.	Man-Days	300.00	921.00	276300.00
					Total	12220553.00
Schedule	Schedule L-Execution of all work as per schedule					
Item- 12	S&T SOR Micro Tunnelling Execution					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Horizontal Drilling by using manual pushing method (also called moling) at minimum depth of 1.5 meter below the formation level of earth as per decision of Engineer in charge. Boring diameter should be atleast 110mm. The ground level shall be considered ignoring the bank height of the bank of the road. Note: DWC/HDPE/GI Pipe Supply is covered under this item. Contactor shall provide all material required for work 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. Payment of boring shall be made only after laying of the cables into DWC/HDPE/GI pipe.	Metre	1300.00	1023.00	1329900.00

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2	2	Transportation of HDT machine/Micro Tunnelling through Horizontal directional drilling (HDD) machine with accessories including handling of stores materials, preparation of sites, boring and laying of DWC/HDPE/GI pipes for crossing of S&T cable at bridges/culverts/track crossing/pucca road crossing. Boring diameter should be at least 110mm & shall be minimum 3 (three) meter below the river bed and minimum 1 m at track/road/pucca road crossing area etc. In case the site doesn't allow to perform as per schedule, written approval must be obtained from at least site in charge officer. The ground level shall be considered ignoring the bank height of the bank of the road. Note: DWC/HDPE/GI Pipe Supply is not covered under this item. Contactor shall provide all material required for work 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. Payment of boring shall be made only after laying of the cables into DWC/HDPE/GI pipe is laid in the bore.	Metre	1250.00	647.00	808750.00
					Total	2138650.00
Schedule	Schedule M-Execution of all work as per schedule					
Item- 13	S&T Non-SOR Digital Cable Route Locator and Cable Route Planning					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Programming and Geo Tagging by taking latitude & longitude by using Integrated Locator or similar in Existing/New S&T cable route with Digital mapping through mobile application. Provision of soft and hard copy of Digital route plan, Geo tagging Data long with Railway track to cable distance on digital mapping considering following conditions; i. Survey of existing underground cable using latest technology equipment like-Cable Route Tracer and having RTK based GPS tagging facility using Catalyst correction	Kilometre	18.00	41819.75	752755.50

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		<p>service capturing depth and location of U/G cables with GNSS coordinates with accuracy, & capturing distance of cable from fixed structure/nearest track from fixed structure/ nearest track. Preparation of such cable route plan by using suitable software tools. Report will show Location, depth of underground cables, and distance from fixed structure/mast with suitable intervals as decided by Railway. Data to be handed over to railway after survey are: - (i) Soft copy/ Coordinates acquired as per the Railway requirement in suitable USB. (ii) Hard copy of cable route showing depth, Location (coordinates), distance from fixed structure, as decided by Railway representative, in 01 Tracing & 02 copies of Final Paperprint. ii. S&T cable route locating by Geo Tagging per Route Km of Trench for signalling cable & Telecom cable etc, should be with accuracy, with Minimum depth of cable in trench based on Ground Level at that location to be indicated. Data Output should be mapped provided on (.kml) format with integrated depth data of cables mapped. iii. Equipment utilized should have Utility mapping software used on mobile phone (Mobile phone with Utility mapped software should take data via Bluetooth from both Cable locator & RTK Global Navigation Satellite System receiver with autocorrection service simultaneously to provide integrated data output). iv. Additional map required with Cable distance from nearest Track to be included and provided as hard copy map with Coordinates of cable mentioned. Cable Join locations to be indicated in Route Map. v. Separate colour code to be used for different trench for S&T cables, if applicable. vi. In Route Map, Geo Tagging may be placed at an interval distance of 20 metre for approximate straight path. For track crossing diversion, culvert, jointing</p>				
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		locations, interval distance shall be less than 20Mtrs or as per site condition. vii- Data output to be provided on: 1. USB 2. Hardcopy print Training on Geo -Tagging of cable Route to be included				
2	2	Supply of GNSS based cable router kit with receiver with built in mount for GNSS receiver, 12W or higher power transmitter with >=130V Voltage boost, suitable for detecting & mapping underground cables with accuracy up to 25 cm, with current direction up/down arrows. Supply shall include locating receiver with RTK receiver powered by locator receiver, transmitter, compatible dual Bluetooth android phone, mobile application pre-installed in android device with 5 years subscription & PC database software access for direct map generation & download including depth data, 5 years subscription for GNSS correction service & standard accessories, per specification attached. Make/Model: Rycom Pathfinder PLDL Router locator with Trimble DA2 GNSS receiver or similar. Inspection by RITES. Note-1: Item should be compatible to execute with item no.1 above. Note-2: Authorization MOU from OEM/Authorized Indian representative of OEM of underground cable locating and GNSS Mapping tools. In case OEM is located outside India it should have authorized training, repair and service center facility in India certificate should be provided. Hardware and software should provide should not have malicious code. The OEM or their authorized representative shall have service facility in India. Self -declaration of OEM having service facility in India or service center authorization letter to its representative in	Numbers	1.00	1147194.23	1147194.23
					Total	1899949.73
Schedule	Schedule N-Execution of all work as per schedule					
Item- 14	S&T SOR Supply					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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1	1	Supply of Steel Apparatus case Full height as per Drawing No. SK/Drg./OL/SER/198 or latest with E type lock . E-type lock & their key ward No. will be decided by site engineer as per Specification No. IRS: S-10/78 with Rev. 8 or latest. Supply of Hylam sheets is not covered under this scope. This includes supply of one key & handle for each four Apparatus Case or minimum one.	Numbers	20.00	17430.00	348600.00
2	2	Supply of Steel apparatus case (Half) type as per Drawing No. RE/S&T/ALD/SK/ 220/82 Alt.A and 221/82 with Alt. B or latest with E type lock. E type & their key ward No. will be decided by site engineer as per Specification No. IRS:S10/78 with Rev. 8 or latest. This includes one key & handle for each four Apparatus Case or minimum one.	Numbers	20.00	10955.00	219100.00
3	3	Supply of Steel Apparatus Case (Quarter) as per Drawing No. RE/S&T/ALD/SK/227/ 82 or latest with E type lock. E type lock & key ward no. will be decided by site engineer as per Specification No. IRS:S-10/78 with Rev. 8 or latest. This includes one key & handle for each four Apparatus Case or minimum one	Numbers	5.00	5421.00	27105.00
4	4	Supply of Earth Electrode as per Drawing No. 19-D6 of SEM2021 or latest. GI pipe confirming to IS:1239 or latest of 3.17 mm thickness, minimum 2.5 m long, 50.8 mm diameter, 4.76 mm diameter drilled holes staggered at distance of 152.4 mm.	Set	20.00	2712.00	54240.00
5	5	Supply of HDPE pipe as per Specification No. RDSO/SPN/TC/45/2013 Rev-2.0 or latest with OD/ID of size 50mm/42mm with suitable couplers, plugs, end caps, spacer, T band etc. as required during execution at the site.	Kilometre	3.00	74576.00	223728.00
6	6	Supply of Point Junction Box with angle size 50x50x6x100 mm & without PBT terminal for point machine as per approved drawing.	Numbers	30.00	1699.00	50970.00

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7	7	Supply of Thermo-shrink jointing (TSF) kits for jointing underground Quad cable of size 0.9mm/1.4mm diameter conductor for straight/condenser/Y-(Derivation)/Loading Coil/Transformer Joints as per Specification No. IRS-TC77/2012 Rev.3 with Amd. 3.0 or latest.	Numbers	40.00	3404.00	136160.00
8	8	Supply of 35 mm x 6 mm thick MS Flat Plate Strip as per IS: 226-1975 or latest for earth connection to Signal post, L/Box etc.	Metre	20.00	166.00	3320.00
9	9	Supply of basic material to construct unit Maintenance Free Earth for Single Earth consisting as per Spec. No. RDSO/SPN/197/2016 Ver 1.0 or latest, bonding connections drawing no. SDO/ RDSO/E&B/002 or latest are as under, (a) Copper bonded steel electrodes of 3.0 m long, 17.0 mm diameter with copper bonding thickness of min 250 micron and UL listed and marked -1 No. (b) Earth Enhancement compound supplied in sealed bags of min 30-35 Kg.- 1 No. (c) Copper Strip of 200mm x 25mm x 6mm to exothermically welded to Earth electrode- 1 No.(d) Copper Strip of 300mm x 25mm x 6mm (MEEB) - 1 No.(e) Copper Strip of 150mm x 25mm x 6mm (SEEB)- 1 No. It also includes supply of (i) 35 Sq. mm Multi-strand Single Core PVC insulated Copper Connector as per IS:694 for connecting Main Earth Electrode to MEEB in the equipment room in duplicate.-10 meter (ii) 16 Sq. mm Multi-strand Single Core PVC insulated Copper Connector as per IS:694 for connecting MEEB to SEEB and SPDs to MEEB.-10 meter (iii) 10 Sq. mm Multi-strand Single Core PVC insulated Copper Connector as per IS:694 for connecting various equipment to SEEB-10 meter.	Numbers	3.00	17719.00	53157.00

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10	10	Supply of 20 Pair CT box made of 16 SWG CRC sheet with disconnection and reconnection (wago type). The CT Box should be grey colour powder coated with terminal, washer, nut & bolt should be of brass. There shall also be locking arrangement.	Numbers	2.00	3599.00	7198.00
11	11	Supply of metallic Colour Light Signal, Multi Unit type Two Aspect complete but without lamp holder, lenses & transformers as per IRS:S-26/64 or latest and RDSO Drawing No. SA23003 A/M (Adv.) or latest. Mounting socket including its material shall be as per RDSO Drawing No. S 23005/M or latest for mounting on 140 mm outside diameter post.	Numbers	1.00	16711.00	16711.00
12	12	Supply of metallic Colour Light Signal, Multi Unit type Three Aspect complete but without lamp holder, lenses & transformers as per IRS:S-26/64 or latest and RDSO Drawing No. SA23002 A/M (Adv.) or latest. Mounting socket including its material shall be as per RDSO Drawing No. S 23005/M or latest for mounting on 140 mm outside diameter post.	Numbers	2.00	18910.00	37820.00
13	13	Supply of metallic Colour Light Signal, Multi Unit type Four Aspect complete but without lamp holder, lenses & transformers as per IRS:S-26/64 or latest and RDSO Drawing No. SA23001 A/M (Adv.) or latest. Mounting socket including its material shall be as per RDSO Drawing No. S 23005/M or latest for mounting on 140 mm outside diameter post.	Numbers	1.00	21346.00	21346.00
14	14	Supply of Shunt Signal Position Light type complete with base, post etc. as per Drg. No.SA- 23840 (Adv.) Alt '1' or latest, S-23203 or latest and Drg. No. 23845(Adv.) or latest for 90 mm dia. mounting socket as per Specification No. IRS: S-10/78 with Rev. 8 or latest.	Numbers	1.00	8017.00	8017.00
					Total	1207472.00
Schedule	Schedule O-Execution of all work as per schedule					
Item- 15	S&T Non SOR Supply					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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1	1	ISI Marked HDPE pipe 110mm dia conforming to IS.4984 or latest. Made of virgin material and grade of PE63 pressure at 30 degree centigrade PN6 coil type or 6 Mtr Length Pipe. Colour: Black. Make: VENUS, Amatron, Apollo, Surya, Finolex or equivalent.	Metre	1250.00	385.27	481587.50
Total						481587.50

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	Submit the scanned copy (In PDF Form) of the documents as per the requirement of financial eligibility criteria of the tender [Refer para 2.3 of tender document {Para 2.3 for tenderer(s) participating as JV firm}]. TENDERS NOT ACCOMPANIED BY THESE DOCUMENTS WILL BE SUMMARILY REJECTED.	No	No	Allowed (Mandatory)
1.1	Submit the scanned copy (In PDF Form) of the documents for evaluating the Bid Capacity (Please refer Clause 12.25 of tender document). This is applicable in all works contract having tender value of Rs. 10.00 Crore and above. TENDERS NOT ACCOMPANIED BY THESE DOCUMENTS WILL BE SUMMARILY REJECTED.	No	No	Allowed (Mandatory)

Standard Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Submit the scanned copy (In PDF Form) of the work(s) completion certificate(s) as per the requirement of Technical eligibility criteria of the tender [Refer para 2.3 of tender document {Para 2.3 for tenderer(s) participating as JV firm}]. TENDERS NOT ACCOMPANIED BY THESE DOCUMENTS WILL BE SUMMARILY REJECTED.	No	No	Allowed (Mandatory)
1.1	Defination of Similar Work :- Any ROB/Bridge work with similar superstructure. For ROB across Railway running line the qualifying work shall involve construction of ROB/Bridge superstructure work over Railway running line.	No	No	Not Allowed

Bidders shall confirm and certify on the behalf of the tenderer including its constituents as under:

S.No.	Description
1	I/we the tenderer (s) am/are signing this document after carefully reading the contents.
2	I/We the tenderer(s) also accept all the conditions of the tender and have signed all the pages in confirmation thereof.
3	I/we hereby declare that I/we have downloaded the tender documents from Indian Railway website 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.

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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	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	Notes for all schedules: Standard Schedule of Rates (SSOR) Items: Any item of work carried out by the Contractor on the instructions of the Engineer which is not included in the accepted Bill(s) of Quantities but figures in the Standard Schedule of Rates (SSOR), shall be executed at the rates set forth in the "Standard Schedule of Rates (SSOR)" modified by the tender percentage as accepted in the contract for that chapter of Standard Schedule of Rates (SSOR). However, the cumulative value of all such extra item(s) together (modified by the respective tender percentage) shall not exceed 10 % of the original contract value.	No	No	Not Allowed
2	Option of Payment through Letter of Credit (L.C.): Tenderer(s) may submit option for taking payment through Letter of Credit (L.C.). [Refer para 7.1 of tender document].	No	No	Not Allowed
3	Credentials if submitted in foreign currency shall be converted into Indian currency i.e., Indian Rupee as under: The conversion rate of US Dollars into Rupees shall be the daily representative exchange rates published by the Reserve Bank of India for the relevant date. Where, relevant date shall be as on the last day of month previous to the one in which tender is invited. In case of any other currency, the same shall first be converted to US Dollars as on the last day of month previous to the one in which tender is invited, and the amount so derived in US Dollars shall be converted into Rupees at the aforesaid rate. The conversion rate of such currencies shall be the daily representative exchange rates published by the International Monetary Fund for the relevant date.	No	No	Not Allowed

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4	Contract under EBR (IF): It is agreed by and between the parties that Railway shall continue to be held responsible for all obligations, risk and liabilities, whatsoever, arising out of or in connection with the Principal agreement and this novation agreement, whether during the progress of the work or after its completion. It is further agreed and understood by and between the parties that IRFC shall be the owner of assets, if any, arising out of execution of works as defined in the Principal Agreement, except the land whose ownership shall continue with Railway. Accordingly, the invoices shall be issued by capturing GSTIN of contractor (as the supplier) and GSTIN of IRFC (as bill to party). Also, the contractor shall submit the invoice, issued in the name of IRFC, to railway for processing payment by Railway to contractor subject to applicable TDS under the Income Tax, GST or any other applicable laws. It is further agreed by and between the Parties that IRFC shall be responsible to comply with Income Tax and GST laws in relation to filling of returns.	No	No	Not Allowed
5	There are several changes in the tender document after the new GCC April 2022 is issued. Tenderer(s) are requested to go through the tender document & GCC carefully before the submission of the offer.	No	No	Not Allowed
6	Clarification of Bids: To assist in the examination, evaluation & comparison and pre-qualification of the Tender, the Railway may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder that is not in response to a request by the Railway shall not be entertained or considered. The Railway request for clarification and the response of the bidder in this regard shall be in writing. However, if a Bidder does not provide clarification of its bid by the date and time communicated in the Railway request for clarification, the bid shall be evaluated as per the documents submitted along with the bid.	No	No	Not Allowed
7	All General Instructions are available in the uploaded tender document.	No	No	Not Allowed
8	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 last date of submission of bids). Nominated officials are Dy CE/Con/Works & Stores/GRC, S. E. Railway, Kolkata-700043 and Dy CE/Con/II/Kharagpur, Office of the Dy CE/Con/II/Kharagpur, S. E. Railway.	No	No	Not Allowed

Special Conditions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Apostille Clause: (I) A power of attorney (PoA) executed outside of India should meet following requirements: 1. If the PoA is in a foreign language, it must be translated into English and certified. 2. The PoA must be authenticated by an Indian consulate in the country where it was executed. If the PoA was executed in a country that is a member of the Hague Convention, it can be apostilled instead of being authenticated by an Indian consulate. The apostille should be verifiable online. 3. The PoA must be stamped in India within three months of its arrival, with the appropriate stamp duty. 4. The PoA must comply with Indian laws, including the Indian Registration Act and Power of Attorney Act. (II) Documents issued out of India (Balance Sheets, Statutory Auditor's certificate etc) should meet following requirements: 1. If the document is in a foreign language, it must be translated into English and certified. 2. The document must be authenticated by an Indian consulate in the country where it was executed. If that document was executed in a country that is a member of the Hague Convention, it can be apostilled instead of being authenticated by an Indian consulate. The apostille should be verifiable online.	No	No	Not Allowed

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2	Unique Document Identification Number (UDIN) clause: Any certificate issued by the Statutory Auditor/Chartered Accountant must include Unique Document Identification Number (UDIN). The certificate not accompanied by UDIN, such certificate shall be summarily rejected.	No	No	Not Allowed
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Technical-Compliances

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Scanned copy (in PDF Form) of the Information regarding the Association of Railway Officer(s) with the tenderer - For details please see para 2.3.11 of Tender Document.	No	No	Allowed (Mandatory)
2	Details of works completed/substantially completed by the tenderer(s) during last seven years to be submitted as per format available at para 12.30 of tender document duly certified & verified by Chartered Accountant.	No	No	Allowed (Mandatory)
3	SCANNED COPY (IN PDF FORM) OF ALL THE DOCUMENTS OF THE JOINT VENTURE (JV) FIRM AS MENTIONED IN THE PARA 2.3 OF THE TENDER DOCUMENT. IF THE TENDERER IS A JOINT VENTURE FIRM, ALL THE REQUIRED DOCUMENTS SHOULD BE UPLOADED HERE. For all other type of firms (Other than JV firms) the tenderer has to upload the scanned copy (In PDF Form) of all the documents as mentioned in clause 2.3 of the tender document.	No	No	Allowed (Mandatory)
4	Scanned copy (In PDF Form) of the Vendor Mandate Form as per specific format provided in the para 4 of tender document. The Tenderer is required to declare Bank details and A/C No. etc. in Vendor Mandate Form.	No	No	Allowed (Mandatory)
5	Scanned copy (In PDF Form) of the complete address of the firm as per para 1 of tender document, to which the all correspondences shall be made by the railway.	No	No	Allowed (Mandatory)
6	Scanned copy (In PDF Form) of valid Provident fund (PF) Code Number of the establishment/tenderer.	No	No	Allowed (Mandatory)
7	Scanned copy (In PDF Form) of Goods and Services Tax (GST) Registration Certificate containing GST Registration Number.	No	No	Allowed (Mandatory)
8	Scanned copy (In PDF Form) of certificate by tenderer for site visit & familiarization (Refer para 11 of tender document).	No	No	Allowed (Mandatory)
9	Scanned copy (In PDF Form) of declaration by tenderer as per para 6 of tender document.	No	No	Allowed (Mandatory)
10	Scanned copy (In PDF Form) of the list of the persons of the tenderer on hand & proposed to be hired for this tender.	No	No	Allowed (Mandatory)
11	Scanned copy (In PDF Form) of list of the plants & machinery of the tenderer available on hand and proposed to be inducted & hired for this tender.	No	No	Allowed (Mandatory)
12	Scanned copy (In PDF Form) of list of the arbitration/court cases of the tenderer during last three years.	No	No	Allowed (Mandatory)
13	Scanned copy (In PDF Form) of the sub contractor's work experience certificate (Please refer Clause 13.37 of tender document).	No	No	Allowed (Mandatory)
14	Bid Security is required to be submitted/uploaded as per para 12.3 of tender document.	No	No	Allowed (Mandatory)
15	Scanned copy (in PDF Form) of Power of Attorney as para 2.3.10 of tender document.	No	No	Allowed (Mandatory)

Undertakings

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	I/ We have visited the works site and I / We am / are aware of the site conditions.	No	No	Not Allowed

6. Documents attached with tender

S.No.	Document Name	Document Description
1	GCCApril-2022.pdf	GCC 2022

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2	16-06-2026e-BGPolicyinEPCGCCPMSPSSAGCPGMSDated16.06.2026.pdf	eBG circular
3	2026_05_25ForceMajeureClauseFMC.pdf	Force Majeure Circular
4	TD23-2026.pdf	Tender Document
5	AdvanceCorrectionSlipNo1to11_1.pdf	Advance Correction Slip No 1 to 11
6	BarChart_1.pdf	Bar Chart
7	STConditions_compressed_1.pdf	S and T conditions
8	ElectricalConditions_1.pdf	Electrical conditions

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: AKSHAYA KUMAR SAHOO

Designation : Dy.CE/C/WORKS STORES