

**EDFC FIELD UNIT- ALD-WEST-CIVIL/EDFC  
TENDER DOCUMENT**

**Tender No:** PRYJ\_EN\_TMD\_MREN\_2025

**Closing Date/Time:** 19/06/2025 15:00

**GM/Co/DFCCIL/PRYJ-WEST** acting for and on behalf of The President of India invites E-Tenders against Tender No **PRYJ\_EN\_TMD\_MREN\_2025** Closing Date/Time 19/06/2025 15:00 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**

<b>Name of Work</b>	Construction of Track Machine Depot at New Manauri Yard Under the Jurisdiction of CGM PRYJ		
<b>Bidding type</b>	Normal Tender		
<b>Tender Type</b>	Open	<b>Bidding System</b>	Two Packet System
<b>Tender Closing Date Time</b>	19/06/2025 15:00	<b>Date Time Of Uploading Tender</b>	24/05/2025 16:12
<b>Pre-Bid Conference Required</b>	No	<b>Pre-Bid Conference Date Time</b>	Not Applicable
<b>Advertised Value</b>	120418624.73	<b>Tendering Section</b>	CIVIL WORK
<b>Bidding Style</b>	Single Rate for Each Schedule	<b>Bidding Unit</b>	
<b>Earnest Money (Rs.)</b>	752100.00	<b>Validity of Offer ( Days)</b>	90
<b>Tender Doc. Cost (Rs.)</b>	0.00	<b>Period of Completion</b>	6 Months
<b>Contract Type</b>	Works - General	<b>Contract Category</b>	Expenditure
<b>Bidding Start Date</b>	05/06/2025		
<b>Are JV allowed to bid</b>	Yes	<b>Number of JV Member Allowed</b>	3
<b>Are Consortium allowed to bid</b>	No	<b>Number of Consortium Member Allowed</b>	0
<b>Ranking Order For Bids</b>	Lowest to Highest	<b>Expenditure Type</b>	Capital (Works)

**2. SCHEDULE**

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule () A-Schedule-A As per DSR-2021</b>							75041164.49	Above/ Below/Par
1	1	500.85	Sqm	29.66	14855.21	AT Par	14855.21	
	<b>Description:-</b> 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.							
2	2	500.00	Sqm	112.73	56365.00	AT Par	56365.00	
	<b>Description:-</b> 2.1.1 Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m, as directed by Engineer-in- Charge 2.1.1 All kinds of soil"							
3	3	1000.00	cum	908.92	908920.00	AT Par	908920.00	
	<b>Description:-</b> 2.2.1 Earth work by mechanical or manual means in rough excavation, banking excavated earth in layers not exceeding 20cm in depth, breaking clods, watering, rolling each layer with 1or2 tonne roller or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up in embankments for roads, flood banks, marginal banks and guide banks or filling up ground depressions, lead upto 50 m and for all lift : 2.2.1 All kinds of soil							
4	4	500.00	cum	302.22	151110.00	AT Par	151110.00	
	<b>Description:-</b> 2.8.1 Earth work in excavation by mechanical means (Hydraulic excavator) or 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. 2.8.1 All kinds of soil							
5	5	100.00	cum	2276.98	227698.00	AT Par	227698.00	
	<b>Description:-</b> 2.27 Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.							
6	6	1000.00	cum	388.40	388400.00	AT Par	388400.00	
	<b>Description:-</b> 2.25(a) Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in foundation trenches, plinth, sides of foundation etc. complete for all lift.							

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7	7	150.00	cum	8612.68	1291902.00	AT Par	1291902.00	
	<b>Description:-</b> 4.20.1.2 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 or Ordinary Portland or Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate or 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 4.20.1.2 Concrete of M15 grade with minimum cement content of 240 kg orcum							
8	8	1000.00	cum	8425.73	8425730.00	AT Par	8425730.00	
	<b>Description:-</b> 5.33.1.1 Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana or Ordinary Portland or Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate or 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 5.33.1.1 Concrete of M25 grade with minimum cemen content of 330 kg orcum							
9	9	150.00	cum	9209.16	1381374.00	AT Par	1381374.00	
	<b>Description:-</b> 5.33.1.3 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 or Ordinary Portland or Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate or 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 5.33.1.1 Concrete of M35 grade with minimum cemen content of 370 kg orcum							
10	10	150.00	cum	10620.16	1593024.00	AT Par	1593024.00	
	<b>Description:-</b> 5.33.2.1 Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana or Ordinary Portland or Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate or 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.: 5.33.2 All works above plinth level upto floor V level 5.33.2.1 Concrete of M25 grade with minimum cemen content of 330 kg orcum							
11	11	100000.00	Kg	94.45	9445000.00	AT Par	9445000.00	
	<b>Description:-</b> 5.22.6 Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. 5.22.6 Thermo-Mechanically Treated bars of grade Fe-500D or more.							
12	12	50000.00	Kg	94.45	4722500.00	AT Par	4722500.00	
	<b>Description:-</b> 5.22A.6 Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. 5.22A.6 Thermo-Mechanically Treated bars of grade Fe-500D or more.							
13	13	50.00	Metre	10400.07	520003.50	AT Par	520003.50	
	<b>Description:-</b> 19.36.5 Providing and laying NP4 Class RCC pipes including collar or spigot jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete. 19.36.5 1200 mm dia RCC Pipes							
14	14	300.00	Sqm	324.45	97335.00	AT Par	97335.00	
	<b>Description:-</b> 5.9.1 Centering and shuttering including strutting, propping etc. and removal of form for 5.9.1 Foundations, footings, bases of columns, etc. for mass concrete.							
15	15	2000.00	Sqm	640.94	1281880.00	AT Par	1281880.00	
	<b>Description:-</b> 5.9.5 Centering and shuttering including strutting, propping etc. and removal of form for 5.9.5 Lintels, beams, plinth beams, girders, bressumers and cantilevers.							
16	16	500.00	Sqm	807.62	403810.00	AT Par	403810.00	
	<b>Description:-</b> 5.9.3 Centering and shuttering including strutting, propping etc. and removal of form for 5.9.3 Suspended floors, roofs, landings, balconies and access platform.							
17	17	150.00	Sqm	858.61	128791.50	AT Par	128791.50	
	<b>Description:-</b> 5.9.19 Centering and shuttering including strutting, propping etc. and removal of form for 5.9.19 Weather shed, Chajjas, corbels etc., including edges .							
18	18	100.00	cum	7229.61	722961.00	AT Par	722961.00	

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		<b>Description:-</b> 6.1.1 Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: 6.1.1 Cement mortar 1:4 (1 cement : 4 coarse sand)					
19	19	200.00	cum	8968.11	1793622.00	AT Par	1793622.00
		<b>Description:-</b> 6.4.1 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: 6.4.1 Cement mortar 1:4 (1 cement : 4 coarse sand)					
20	20	75.00	Sqm	1098.98	82423.50	AT Par	82423.50
		<b>Description:-</b> 6.13.1 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. 6.13.1 Cement mortar 1:3 (1 cement : 3 coarse sand)					
21	21	2000.00	Sqm	310.12	620240.00	AT Par	620240.00
		<b>Description:-</b> 13.4.2 12 mm cement plaster of mix : 13.4.2 1:6 (1 cement: 6 coarse sand)					
22	22	2000.00	Sqm	167.47	334940.00	AT Par	334940.00
		<b>Description:-</b> 13.48.1 Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : 13.48.1 Two or more coats applied on walls at the rate of 1.25 ltr/10 sqm over and including one coat of Special primer applied at the rate of 0.75 ltr or 10 sqm					
23	23	400.00	Sqm	382.92	153168.00	AT Par	153168.00
		<b>Description:-</b> 13.78 Providing and applying 12 mm thick (average) premixed formulated one coat gypsum lightweight plaster having additives and light weight aggregates as vermiculite or perlite respectively conforming to IS: 2547 (Part - 1 and II) 1976, applied on hacked or uneven background such as bare brick or RCC work on walls and ceiling at all floors and locations, finished in smooth line and level etc. complete.					
24	24	200.00	Sqm	718.17	143634.00	AT Par	143634.00
		<b>Description:-</b> 4.17 Making plinth protection 50 mm thick of cement concrete 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) over 75 mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling and dressing and finishing the top smooth.					
25	25	150.00	Sqm	1798.03	269704.50	AT Par	269704.50
		<b>Description:-</b> 11.26.1 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) : 11.26.1 25 mm thick					
26	26	500.00	Sqm	1492.54	746270.00	AT Par	746270.00
		<b>Description:-</b> 11.41.2 Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08 percent and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry at the rate of 3.3 kg/sqm including grouting the joints with white cement and matching pigments etc., complete. 11.41.2 Size of Tile 600x600 mm					
27	27	20.00	Sqm	985.72	19714.40	AT Par	19714.40
		<b>Description:-</b> 11.37 Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry at the rate of 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.					
28	28	100.00	Sqm	988.78	98878.00	AT Par	98878.00
		<b>Description:-</b> 11.37A Providing and fixing 1st quality ceramic glazed floor 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 at the rate of 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.					
29	29	100.00	Sqm	4118.20	411820.00	AT Par	411820.00
		<b>Description:-</b> 11.56.1 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. 11.56.1 Polished Granite stone slab of colour Black, Cherry or Ruby Red or equivalent					
	30	1000.00	Sqm	978.40	978400.00	AT Par	978400.00

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30	<b>Description:-</b> 11.5 62 mm thick cement concrete flooring with concrete hardener topping, under layer 50 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate, 6 mm nominal size) by volume, hardening compound mixed at the rate of 2 litre per 50 kg of cement or as per manufacture's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.						
31	31	1200.00	Sqm	97.72	117264.00	AT Par	117264.00
	<b>Description:-</b> 13.42 Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour : 13.42.1 two or more coats on new work						
32	32	50.00	Sqm	34.19	1709.50	AT Par	1709.50
	<b>Description:-</b> 13.37.1 White washing with lime to give an even shade : 13.37.1 New work (three or more coats)						
33	33	1000.00	Sqm	102.83	102830.00	AT Par	102830.00
	<b>Description:-</b> 13.44.1 Finishing walls with water proofing cement paint of required shade : 13.44.1 New work (Two or more coats applied at the rate of 3.84 kgor10 sqm)						
34	34	80000.00	Kg	98.03	7842400.00	AT Par	7842400.00
	<b>Description:-</b> 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.						
35	35	120000.00	Kg	82.39	9886800.00	AT Par	9886800.00
	<b>Description:-</b> 10.2 Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.						
36	36	1200.00	Sqm	1530.00	1836000.00	AT Par	1836000.00
	<b>Description:-</b> 12.64.3 Providing and fixing at all heights, levels and locations Mill finish Aluminium alloy roofing sheets of alloy IS designation 31500, temper Hx8 conforming to IS 737 and dimensions as per IS code 2676 with characteristics of good formability and corrosion resistance. The profile sheets shall be fixed to truss members in slope or required pitch or curvature with Hex cap headed self drillingortapping Stainless steel screws M6, 50 mm long with 3 mm EPDM seal washer etc. all inclusive of labour, scaffolding, TandP and sundries etc. complete as per directions of the Engineer-In-Charge. (Cost of trussorframe work shall be paid separately). 12.64.3 0.91 mm, troughed profile with center to center pitch of 200 mm, depth of 32 mm, overall profile width 1092 mm, cover width 1000 mm.						
37	37	1000.00	Kg	645.05	645050.00	AT Par	645050.00
	<b>Description:-</b> 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, iorc fixing the railing with necessary accessories and 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.).						
38	38	1500.00	cum	21.65	32475.00	AT Par	32475.00
	<b>Description:-</b> 16.2 Extra for compaction of earth work in embankment under optimum moisture conditions to give at least 95percent of the maximum dry density (proctor density).						
39	39	1000.00	cum	2752.93	2752930.00	AT Par	2752930.00
	<b>Description:-</b> 16.78.3 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 and 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. With material conforming to Grade-III (size range 26.5 mm to 0.075 mm ) having CBR Value-20						
40	40	550.00	cum	4351.83	2393506.50	AT Par	2393506.50
	<b>Description:-</b> 16.80 Construction of dry lean cement concrete sub base over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kgorcum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7days, mixed in a batching plant, transported to site, for all leads and lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineerin-charge.						
	41	750.00	cum	10001.45	7501087.50	AT Par	7501087.50

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42	42	4.00	Each	6091.07	24364.28	AT Par	24364.28		<b>Description:-</b> 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 : 17.2.1 W.C. pan with ISI marked white solid plastic seat and lid
43	43	2.00	Each	5551.11	11102.22	AT Par	11102.22		<b>Description:-</b> 17.4 Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : 17.4.1 One urinal basin with 5 litre white P.V.C. automatic flushing cistern
44	44	4.00	Each	2396.88	9587.52	AT Par	9587.52		<b>Description:-</b> 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: 17.7.1 White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps
45	45	4.00	Each	95.82	383.28	AT Par	383.28		<b>Description:-</b> 17.28 Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. 17.28.1.1 Semi rigid pipe 32 mm dia
46	46	4.00	Each	992.62	3970.48	AT Par	3970.48		<b>Description:-</b> 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.
47	47	4.00	Each	717.27	2869.08	AT Par	2869.08		<b>Description:-</b> 17 34 1 C.P. Brass
48	48	85.00	Metre	1072.59	91170.15	AT Par	91170.15		<b>Description:-</b> 17 35 Providing and fixing soil, waste and vent pipes: 13 35 1 1 100 mm dia Sand cast iron SandS pipe as per IS: 1729
48	48A	25.00	Metre	981.45	24536.25	AT Par	24536.25		<b>Description:-</b> 17 35 2 1 75 mm dia Sand cast iron SandS pipe as per IS: 1729
49	49A	5.00	Each	1690.03	8450.15	AT Par	8450.15		<b>Description:-</b> 17 60 1 1 Providing and fixing trap of self cleansing design with screwed downor hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors:
49	49B	5.00	Each	1760.52	8802.60	AT Par	8802.60		<b>Description:-</b> 17 60 2 1 100 mm inlet and 75 mm outlet Sand cast iron SandS as per IS: 3989
50	50A	45.00	Metre	233.21	10494.45	AT Par	10494.45		<b>Description:-</b> 18 9 Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings This includes jointing of pipes and fittings with one step CPVC solvent cement, trenching, refilling and testing of joints complete as per direction of Engineer in Charge. 18 9 1 15 mm nominal outer dia Pipes
50	50B	75.00	Metre	290.00	21750.00	AT Par	21750.00		<b>Description:-</b> 18 9 Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings This includes jointing of pipes and fittings with one step CPVC solvent cement, trenching, refilling and testing of joints complete as per direction of Engineer in Charge 18 9 2 20 mm nominal outer dia Pipes
50	50C	25.00	Metre	390.51	9762.75	AT Par	9762.75		

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50	50D	100.00	Metre	458.36	45836.00	AT Par	45836.00
	<b>Description:-</b> 18 9 Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings This includes jointing of pipes and fittings with one step CPVC solvent cement, trenching, refilling and testing of joints complete as per direction of Engineer in Charge. 18 9 4 32 mm nominal outer dia Pipes						
50	50E	35.00	Metre	589.16	20620.60	AT Par	20620.60
	<b>Description:-</b> 18 9 Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings This includes jointing of pipes and fittings with one step CPVC solvent cement, trenching, refilling and testing of joints complete as per direction of Engineer in Charge. 18 9 5 40 mm nominal outer dia Pipes						
51	51A	45.00	Metre	320.44	14419.80	AT Par	14419.80
	<b>Description:-</b> 18 10 Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. 18 10 1 15 mm nominal outer dia Pipes						
51	51B	100.00	Metre	517.51	51751.00	AT Par	51751.00
	<b>Description:-</b> 18 10 Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. 18 10 3 25 mm nominal outer dia Pipes						
51	51C	100.00	Metre	593.79	59379.00	AT Par	59379.00
	<b>Description:-</b> 18 10 Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. 18 10 4 32 mm nominal outer dia Pipes						
52	52A	15.00	Each	421.01	6315.15	AT Par	6315.15
	<b>Description:-</b> 17 57 Providing and fixing collar : 17 57 1 1 100 mm Sand cast iron SandS as per IS - 1729						
52	52B	10.00	Each	285.99	2859.90	AT Par	2859.90
	<b>Description:-</b> 17 57 Providing and fixing collar : 17 57 2 1 100 mm Sand cast iron SandS as per IS - 1729						
53	53	125.00	Metre	471.21	58901.25	AT Par	58901.25
	<b>Description:-</b> 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 : 19 6 1 100 mm dia. R.C.C. pipe						
54	54	4.00	Each	25713.36	102853.44	AT Par	102853.44
	<b>Description:-</b> 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 1 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) : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5						
55	55	2.00	Each	29530.71	59061.42	AT Par	59061.42
	<b>Description:-</b> 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. 19 32 1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5						
56	56	5.00	Each	398.72	1993.60	AT Par	1993.60
	<b>Description:-</b> 19 34 Providing and fixing S.W. intercepting trap in manholes with stiff mixture of cement mortar 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete : 19 34 1 100 mm dia						
57	57	150.00	Metre	682.24	102336.00	AT Par	102336.00
	<b>Description:-</b> 23 1 Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire and running charges of all equipments, tools, plants and machineries required for the job, all complete as per direction of Engineer-in-charge, upto 90 metre depth below ground level. 23 1 1 2 All types of soil 350mm dia						
58	58	50.00	Metre	808.56	40428.00	AT Par	40428.00

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58	<b>Description:-</b> 23 2 Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire and running charges of all equipments, tools, plants and machineries required for the job, all complete as per direction of Engineer -in-charge, beyond 90 metre and upto 150 metre depth below ground level. 23 2 1 2 All types of soil 350mm dia							
59	59	250.00	Metre	1158.14	289535.00	AT Par	289535.00	
	<b>Description:-</b> 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 and labour charges, fittings and accessories etc. all complete, for all depths, as per direction of Engineer-in-charge. 23 4 3 200 mm nominal size dia							
60	60	150.00	cum	1379.13	206869.50	AT Par	206869.50	
	<b>Description:-</b> 23 6 Supplying, filling, spreading and 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 and lifts, all complete as per direction of Engineer-in-charge.							
61	61	75.00	cum	1379.13	103434.75	AT Par	103434.75	
	<b>Description:-</b> 23 7 Supplying, filling, spreading and leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads and lifts, all complete as per direction of Engineer -incharge.							
62	62	250.00	Metre	1885.89	471472.50	AT Par	471472.50	
	<b>Description:-</b> 23 11 Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS: 8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire and labour charges, fittings and accessories, all complete, for all depths, as per direction of Engineer -in-charge 23 11 2 150 mm nominal size dia							
63	63	150.00	Hour	965.91	144886.50	AT Par	144886.50	
	<b>Description:-</b> 23 12 Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level and draw down etc. by step draw down method, collecting water samples and getting tested in approved laboratory, i/c disinfection of tubewell, all complete, including hire and labour charges of air compressor, tools and accessories etc., all as per requirement and direction of Engineer-in-charge.							
64	64	2.00	Each	296.00	592.00	AT Par	592.00	
	<b>Description:-</b> 23 13 3 Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of: 200 mm dia							
65	65	2.00	Each	1924.88	3849.76	AT Par	3849.76	
	<b>Description:-</b> 23 14 3 Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts and nuts of required size complete. 200 mm clamp							
66	66	1.00	Lumpsum	2500000.00	2500000.00	AT Par	2500000.00	
	<b>Description:-</b> DSR 2021 Any other item of DSR 2021							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule ( ) B-Schedule-B As per USSOR 2021</b>							7558892.59	Above/ Below/Par
1	1	0.10	Kilometre	134559.30	13455.93	AT Par	13455.93	
	<b>Description:-</b> 11020 Benching of existing embankment manually in steps of 30 cm height for doubling/tripling works in running line to provide proper amalgamation between the old and new embankments as per RDSO latest Specifications and guidelines RDSO/2020//GE: IRS-0004 to the entire satisfaction of Engineer in-charge. The item includes uprooting and disposing of all the vegetation, all lift, descends, ascends and additional earthwork required for filling due to removal of earth in benching in existing bank. Note: (1)The benching Work shall be done for a maximum height of 0.90 m at any time based on the progress of earthwork starting from toe of the embankment. (2)Benching work shall be certified and recorded before starting the earth work. (3)Unit for payment shall be km per metre height of the Bank. Height here means representative average height of the bank in the specified km taken from cross sectional measurements for earthwork. (4)Since the rate includes earthwork in steps, payment under this item shall be made after completion of earthwork to that level. (5)Cut soil from bank shall not be used in embankment construction and disposed off away from bank as per the direction of Engineer-in- charge.							
	2A	5000.00	cum	296.95	1484750.00	AT Par	1484750.00	

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2	<b>Description:-</b> 11030 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. 011031 Using Soil Class SQ1						
2	2B	4000.00	cum	335.82	1343280.00	AT Par	1343280.00
2	<b>Description:-</b> 11030 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. 011032 Using Soil Class SQ2						
3	3	1500.00	cum	2158.95	3238425.00	AT Par	3238425.00
3	<b>Description:-</b> 12030 Mechanical manufacturing of blanketing material by using only hard and durable stone crushed in mechanical crusher to different gradations, wet mixing of the same in designed proportion in Pug mill or wet mix plant to have uniform gradation including all incidental transportation, laying over finished formation in uniform layer(s) with motor grader, compaction with suitable vibratory roller to specified density and finishing to correct profile, complete as per RDSO Specification No. RDSO/2020/GE: IRS-0004 with latest correction slips. Note: This item shall be used only when entire constituent of blanketing material is mechanically manufactured by crushing of hard and durable stone into desired gradation of designed proportion						
4	4	300.00	cum	48.02	14406.00	AT Par	14406.00
4	<b>Description:-</b> 123030 Spreading of ballast, from existing stacks available along formation on top or at cess, in required uniform thickness, compaction of ballast layer laid on new formation at all the locations with smooth wheeled power roller of 8-10 tonne capacity to sufficient number of passes to form consolidated ballast bed of approximately 250mm thickness to a width of 4m symmetrical to centre line of proposed track in correct line and level with all ascents and descents, as directed by Engineer in-charge. Note: Item is inclusive of (a) providing ramp for taking roller to formation and removing the same and making good formation after completion of work; (b) redistribution and leveling of excess ballast while rolling to obtain uniform plane cambered surface.						
5	5	50.00	Each	2512.18	125609.00	AT Par	125609.00
5	<b>Description:-</b> 091000 Supply of Alumino Thermic Welding Portions 091010 Manufacturing and Supply of Alumino thermic welding portions of 52Kg/60 Kg/60EI-R260 as approved by RDSO for welding of rails 52Kg/60Kg/60EI-R260 kg for 25mm gap by the process of AT welding along with complete accessories confirming to the specification laid down in Indian Railway Standard specification No.IRST-19-2020 up to date correction slips with Single shot crucible fitted with Automatic Tapping Thimble, 3 pieces pre fabricated mould (Zircon washed) manually pressed using compressed air petrol/LPG pre heating for execution of welding of rail joint as directed by the engineer in charge at site. Note: 1.The accessories along with welding portion shall be supplied as per Annexure-I of the IRUSSOR - 2021. 2.Rate is inclusive of transportation of above to SSE/P.Way stores. 91011 For 60Kg 90 UTS Rails						
6	6	50.00	Each	4704.75	235237.50	AT Par	235237.50
6	<b>Description:-</b> 092010 25mm gap 'in-situ' welding during traffic block and finishing of weld to meet the prescribed tolerances and pass all stipulated tests with all required labour, materials, consumables, tools, equipments etc. to complete the work in all respect as per IR's "Manual for Fusion Welding of Rails by Alumino - Thermic Process" with latest correction slips, including marking of welded joint, painting weld collar with anticorrosive paint, restoration of track near weld joint to original position and fixing of joggled fish plate at new weld, to be removed after passing of weld in USFD test as directed by Engineer in charge. Note: 1.Welding shall be carried out only by trained welder having valid competency certificate using RDSO approved Alumino Thermit Welding Portions, 3 piece prefabricated mould (ZIRCON WASHED) manually pressed, Single shot crucible fitted with auto tapping thimble and Compressed Air Petrol/LPG preheating technique as per RDSO Specification No IRST/19-2020 with latest amendment. 2.Hydraulic Weld trimmer shall be used for chipping and profile Grinder for finishing. 3.Only required nos. of Joggled fish plates shall be supplied by Railway at nearest P. Way Stores and the same shall be returned at nearest P. Way Store or at other location as per direction of Engineer- in-Charge after release from track. All other items required shall be supplied by the Contractor. 92011 For 60 Kg - 90 UTS Rail						
	7A	2.00	Set	42302.00	84604.00	AT Par	84604.00



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7	<b>Description:-</b> 72040 Laying and linking of turnouts of all types including diamond crossings and Derailing switches with 52Kg / 60Kg rail section on PSC sleepers on prepared ballast bed for New lines or during total closure of section at indicated location as per standard drawing, duly leading sleepers, rails, switches, crossings, fastenings including rail cutting, drilling, fixing of all components, fittings with housing of tongue rails as per requirement of signaling, preparing ballast bed, filling and spreading of ballast as required, linking of turnout with track, attending track parameters including lifting, providing one round of packing to make track fit for 20kmph speed including lubrication of fittings/fastenings, complete as directed by Engineer in-charge. 72042 1 in 8½ Turnouts							
7	7B	2.00	Set	9562.58	19125.16	AT Par	19125.16	
7	<b>Description:-</b> 72040 Laying and linking of turnouts of all types including diamond crossings and Derailing switches with 52Kg / 60Kg rail section on PSC sleepers on prepared ballast bed for New lines or during total closure of section at indicated location as per standard drawing, duly leading sleepers, rails, switches, crossings, fastenings including rail cutting, drilling, fixing of all components, fittings with housing of tongue rails as per requirement of signaling, preparing ballast bed, filling and spreading of ballast as required, linking of turnout with track, attending track parameters including lifting, providing one round of packing to make track fit for 20kmph speed including lubrication of fittings/fastenings, complete as directed by Engineer in-charge. 72046 Derailing Switch							
8	8	1.00	Lumpsum	1000000.00	1000000.00	AT Par	1000000.00	
8	<b>Description:-</b> USSOR 2021 Any other item of USSOR 2021							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule () C-Schedule-C Non-Schedule Items for Track Works</b>							32638053.00	Above/ Below/Par
1	1	300.00	cum	1995.00	598500.00	AT Par	598500.00	
1	<b>Description:-</b> NS1 Supply, Stacking Machine Crushed Hard Stone Ballast of 65mm Gauge at New manuari under jurisdiction of PRYJ(W)							
3	3	140.00	Each	26600.00	3724000.00	AT Par	3724000.00	
3	<b>Description:-</b> NS3 Supply of Q-Track embedded rail system including supervision charges for execution							
4	4	2.00	Numbers	541236.50	1082473.00	AT Par	1082473.00	
4	<b>Description:-</b> NS4 Supply of fittings for inspection pit track							
5	5	140.00	Track metre	17500.00	2450000.00	AT Par	2450000.00	
5	<b>Description:-</b> NS5 Construction of embedded track							
6	6	60.00	Track metre	276000.00	16560000.00	AT Par	16560000.00	
6	<b>Description:-</b> NS6 Track linking work - for inspection pit							
7	7	4.00	Set	2055770.00	8223080.00	AT Par	8223080.00	
7	<b>Description:-</b> NS7 Supply of 1 in 8.5 turnout including tongue rail, stock rail, CMS crossings, lead rails, fastening and fittings and sleepers.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule () D-Schedule-D As per DSR E and M for Electrical works</b>							3216599.40	Above/ Below/Par
1	1A	125.00	Point	1015.00	126875.00	AT Par	126875.00	
1	<b>Description:-</b> DSR- EandM -1.10 Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. DSR- EandM -1.10-1 Group A							
1	1B	125.00	Point	1182.00	147750.00	AT Par	147750.00	
1	<b>Description:-</b> DSR- EandM -1.10 Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. DSR- EandM -1.10-2 Group B							
2	2	12.00	Point	1562.00	18744.00	AT Par	18744.00	
2	<b>Description:-</b> DSR- EandM -1.11 Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.							
	3A	500.00	Metre	233.00	116500.00	AT Par	116500.00	

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3	<b>Description:-</b> DSR- EandM -1.14 Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. DSR- EandM -1.14.1 2 X 1.5 sq.mm + 1X 1.5 sq.mm earth wire						
	3B	1500.00	Metre	275.00	412500.00	AT Par	412500.00
3	<b>Description:-</b> DSR- EandM -1.14 Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. DSR- EandM -1.14.2 2 X 2.5 sq. mm +1X 2.5 sq.mm earth wire						
	3C	500.00	Metre	334.00	167000.00	AT Par	167000.00
3	<b>Description:-</b> DSR- EandM -1.14 Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. DSR- EandM -1.14.3 2 X 4 sq. mm +1X 4 sq. mm earth wire						
	3D	250.00	Metre	439.00	109750.00	AT Par	109750.00
3	<b>Description:-</b> DSR- EandM -1.14 Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. DSR- E and M -1.14.4 2 X 6 sq. mm +1X 6 sq. mm earth wire						
	3E	500.00	Metre	1005.00	502500.00	AT Par	502500.00
3	<b>Description:-</b> DSR- EandM -1.14 Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. DSR- E and M -1.14.10 4 X 10 sq. mm+ 2 X 6 sq. mm earth wire						
	4A	10.00	Each	209.00	2090.00	AT Par	2090.00
4	<b>Description:-</b> DSR- E and M -1.22 Supplying and fixing metal box of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc. as required. DSR- E and M -1.22.2 100 mm X 100 mm X 60 mm deep						
	4B	5.00	Each	216.00	1080.00	AT Par	1080.00
4	<b>Description:-</b> DSR- E and M -1.22 Supplying and fixing metal box of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc. as required. DSR- E and M -1.22.3 150 mm X 75 mm X 60 mm deep						
	5A	15.00	Each	197.00	2955.00	AT Par	2955.00
5	<b>Description:-</b> DSR- E and M -1.24 Supplying and fixing following modular switch/socket on the exesting modular plate and switch box including connections but excluding modular plate etc. as required. DSR- E and M -1.24.5 6 pin 15/16 A socket outlet						
	5B	30.00	Each	148.00	4440.00	AT Par	4440.00
5	<b>Description:-</b> DSR- E and M -1.24 Supplying and fixing following modular switch/socket on the exesting modular plate and switch box including connections but excluding modular plate etc. as required. DSR- E and M -1.24.6 Telephone socket outlet						
	6	35.00	Each	369.00	12915.00	AT Par	12915.00
6	<b>Description:-</b> DSR- E and M -1.25 Supplying and fixing 2 module stepped type electronic fan regulator on the exesting modular plate swchich box including connection but excluding modular plates as required.						
	7	25.00	Each	40.00	1000.00	AT Par	1000.00
7	<b>Description:-</b> DSR- E and M -1.26 Supplying and fixing moduler blank plate on the exesting modular plate and swchich box excluding modular plates as required.						
	8A	75.00	Each	298.00	22350.00	AT Par	22350.00
8	<b>Description:-</b> DSR- E and M -1.27.1 1 or 2 Module (75mmX75mm)						
	8B	10.00	Each	343.00	3430.00	AT Par	3430.00
8	<b>Description:-</b> DSR- E and M -1.27.3 4 Module (125mmX75mm)						
	9A	75.00	Each	133.00	9975.00	AT Par	9975.00
9	<b>Description:-</b> DSR- E and M -1.28.1 1 or 2 Module (75mmX75mm)						
	9B	10.00	Each	158.00	1580.00	AT Par	1580.00
9	<b>Description:-</b> DSR- E and M -1.28.3 4 Module						
	10	125.00	Each	477.00	59625.00	AT Par	59625.00
10	<b>Description:-</b> DSR- E and M -1.31 Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.						
	11	50.00	Each	586.00	29300.00	AT Par	29300.00
11	<b>Description:-</b> DSR- E and M -1.32 Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 and 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required						
	12	25.00	Each	87.00	2175.00	AT Par	2175.00
12	<b>Description:-</b> DSR- E and M -1.33 Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including connections etc. as required						

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13	13	10.00	Each	727.00	7270.00	AT Par	7270.00	
	<b>Description:-</b> DSR- E and M -1.57 Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 25 A modular socket outlet and 25 A modular SP MCB, C curve including connections, painting etc. as required.							
14	14	1.00	Each	2573.00	2573.00	AT Par	2573.00	
	<b>Description:-</b> DSR- E and M -2.3 Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB /RCCB /Isolator) DSR- E and M -2.3.2 8 way , Double door							
15	15	3.00	Each	5967.00	17901.00	AT Par	17901.00	
	<b>Description:-</b> DSR- E and M -2.4 Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) DSR- E and M -2.4.3 8 way (4 + 24), Double door							
16	16A	50.00	Each	256.00	12800.00	AT Par	12800.00	
	<b>Description:-</b> 8 way (4 + 24), Double door Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. DSR- E and M -2.10.1 Single pole							
16	16B	3.00	Each	656.00	1968.00	AT Par	1968.00	
	<b>Description:-</b> DSR- E and M -2.10 Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. DSR- E and M -2.10.2 Double pole							
17	17	5.00	Each	1034.00	5170.00	AT Par	5170.00	
	<b>Description:-</b> DSR- E and M -2.13 Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. DSR- E and M -2.13.2 63 A							
18	18	10.00	Each	2028.00	20280.00	AT Par	20280.00	
	<b>Description:-</b> DSR- E and M -2.14 Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete connections, testing and commissioning etc. as required. with DSR- E and M -2.14.1 25A							
19	19A	2.00	Each	3188.00	6376.00	AT Par	6376.00	
	<b>Description:-</b> DSR- E and M -2.15 Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required. DSR- E and M -2.15.2 40A							
19	19B	8.00	Each	2872.00	22976.00	AT Par	22976.00	
	<b>Description:-</b> DSR- E and M -2.15 Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required. DSR- E and M -2.15.3 63A							
20	20	2.00	Each	1169.00	2338.00	AT Par	2338.00	
	<b>Description:-</b> DSR- E and M -2.16 Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25/32 A 240 V "C" curve DP MCB complete with connections, testing and commissioning etc. as required.							
21	21	2.00	Each	1592.00	3184.00	AT Par	3184.00	
	<b>Description:-</b> DSR- E and M -2.17 Supplying and fixing TP sheet steel enclosure on surface/ recess along with 16/25/32 A 415 V "C" curve TP MCB complete with connections, testing and commissioning etc. as required.							
22	22	5.00	Each	269.00	1345.00	AT Par	1345.00	
	<b>Description:-</b> DSR- E and M -2.21 Providing and fixing M.V. danger notice plate of 200 mm X 150 mm, made of mild steel, at least 2 mm thick, and vitreous enameled white on both sides, and with inscription in single red colour on front side as required.							
23	23	2.00	Each	832.00	1664.00	AT Par	1664.00	
	<b>Description:-</b> DSR- E and M -2.23 Supplying and fixing Cable End Box (Loose wire Box) suitable for following single pole and neutral , sheet steel , MCB distribution board, 240 volts, on surface / recess, complete with testing commissioning etc. as required. DSR- E and M -2.23.2 DSR- E and M -2.23.2							
24	24	5.00	Each	1340.00	6700.00	AT Par	6700.00	
	<b>Description:-</b> DSR- E and M -2.24 Supplying and fixing Cable End Box (Loose wire Box) suitable for following triple pole and neutral , sheet steel , MCB distribution board, 415 volts, on surface / recess, complete with testing commissioning etc. as required. DSR- E and M -2.24.3 For, 8 way Double Door TPN MCBDB							

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25	25A	5.00	Each	7723.00	38615.00	AT Par	38615.00	
	<b>Description:-</b> DSR- E and M -2.2.13 100 A,30KA,FPMCCB							
25	25B	2.00	Each	8209.00	16418.00	AT Par	16418.00	
	<b>Description:-</b> DSR- E and M -2.2.14 125 A,36KA,FPMCCB							
25	25C	1.00	Each	15206.00	15206.00	AT Par	15206.00	
	<b>Description:-</b> DSR- E and M -2.2.15 200 A,36KA,FPMCCB							
25	25D	1.00	Each	17510.00	17510.00	AT Par	17510.00	
	<b>Description:-</b> DSR- E and M -2.2.16 250 A,36KA,FPMCCB							
25	25E	1.00	Each	43092.00	43092.00	AT Par	43092.00	
	<b>Description:-</b> DSR- E and M -2.2.19 630 A,50KA,FPMCCB							
25	25E	2.00	Each	4996.47	9992.94	AT Par	9992.94	
	<b>Description:-</b> (2) 125 A -200 A , CT Ratio 1/200							
25	25F	1.00	Each	5430.01	5430.01	AT Par	5430.01	
	<b>Description:-</b> (3) 250 A -400 A , CT Ratio 1/400							
25	25G	1.00	Each	6073.88	6073.88	AT Par	6073.88	
	<b>Description:-</b> (4) 600 A -800 A , CT Ratio 1/800							
25	25H	10.00	Each	875.67	8756.70	AT Par	8756.70	
	<b>Description:-</b> (A)Extended operating rotary handle with pad lock with three position trip,off,on suitable for 25A to 250 A panel mounting cat-III							
25	25I	1.00	Each	1313.50	1313.50	AT Par	1313.50	
	<b>Description:-</b> (B)Extended operating rotary handle with pad lock with three position trip,off,on suitable for 400A to 630 A panel mounting cat-III							
25	25J	2.00	Each	2120.49	4240.98	AT Par	4240.98	
	<b>Description:-</b> (B) Lockable Trip Push Button Type A,B,C,D							
25	25K	2.00	Each	9598.03	19196.06	AT Par	19196.06	
	<b>Description:-</b> (C) Lockable Trip Push Button Kit L, M, LM, MN							
25	25L	1.00	Each	2172.00	2172.00	AT Par	2172.00	
	<b>Description:-</b> (E) Locking of ACB in Any Position							
25	25M	1.00	Each	4017.78	4017.78	AT Par	4017.78	
	<b>Description:-</b> (F) Racking Inter Lock							
25	25N	1.00	Each	2172.00	2172.00	AT Par	2172.00	
	<b>Description:-</b> (F) Racking Inter Lock							
25	25O	8.00	Sqm	10499.44	83995.52	AT Par	83995.52	
	<b>Description:-</b> (A) locally fabricated panel board (i) with 350 mm depth							
25	25P	6.00	Sqm	27214.45	163286.70	AT Par	163286.70	
	<b>Description:-</b> (A) locally fabricated panel board (iv) with 1000 mm. depth							
25	25Q	2.00	Sqm	14929.31	29858.62	AT Par	29858.62	
	<b>Description:-</b> (A) locally fabricated panel board (ii) With 550 mm. Depth							
25	25R	2.00	RM	1038.78	2077.56	AT Par	2077.56	
	<b>Description:-</b> (B) Suitable for 200 Amp. Capacity							
25	25S	1.00	RM	1472.32	1472.32	AT Par	1472.32	
	<b>Description:-</b> (C) Suitable for 300 Amp. Capacity							
25	25T	1.00	RM	3069.13	3069.13	AT Par	3069.13	
	<b>Description:-</b> (E) Suitable for 630 Amp. capacity							
25	25U	2.00	RM	7979.75	15959.50	AT Par	15959.50	
	<b>Description:-</b> (G) Suitable for 1200 Amp.capacity							
26	26	8.00	Each	7472.00	59776.00	AT Par	59776.00	
	<b>Description:-</b> DSR -EandM -5-4 Earthing with G.I. earth plate 600 m m X 600 m m X 6 m m thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.							
27	27	1.00	Each	13838.00	13838.00	AT Par	13838.00	
	<b>Description:-</b> DSR -EandM -5-6 Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.							
28	28	30.00	Metre	51.00	1530.00	AT Par	1530.00	
	<b>Description:-</b> DSR -EandM -5-7 Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.							

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29	29	6.00	Metre	1162.00	6972.00	AT Par	6972.00	
	<b>Description:-</b> DSR -EandM -5-14 Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.							
30	30	40.00	Metre	244.00	9760.00	AT Par	9760.00	
	<b>Description:-</b> DSR -EandM -5-15 Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.							
31	31	10.00	Metre	70.00	700.00	AT Par	700.00	
	<b>Description:-</b> DSR -EandM -5-16 Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.							
32	32A	40.00	Metre	604.00	24160.00	AT Par	24160.00	
	<b>Description:-</b> DSR-E and M 4-1 Supplying and installing following size of perforated painted with powder coating M.S. cable trays with perforation not more than 17.5percent , in convenient sections , joined with connectors, suspended from the ceiling with M.S. suspenders including bolts and nuts , painting suspenders etc. as required. DSR-E and M 4-1-2 150 mm width x 50 mm depth x 1.6 mm thickness							
32	32B	25.00	Metre	777.00	19425.00	AT Par	19425.00	
	<b>Description:-</b> DSR-E and M 4-1 Supplying and installing following size of perforated painted with powder coating M.S. cable trays with perforation not more than 17.5percent , in convenient sections , joined with connectors, suspended from the ceiling with M.S. suspenders including bolts and nuts , painting suspenders etc. as required. DSR-E and M 4-1-4 300 mm width x 50 mm depth x 1.6 mm thickness							
33	33A	100.00	Metre	200.00	20000.00	AT Par	20000.00	
	<b>Description:-</b> DSR-E and M 7-3 Laying of one number of PVC insulated and PVC sheathed / XLPE Power cable of 1.1 kv grade of folloeing size direct in ground including excavation, refilling the trench etc as required, but excluding sand cushioning and protective covering. DSR-E and M 7-3-1 Upto 35 sq. mm							
33	33B	35.00	Metre	217.00	7595.00	AT Par	7595.00	
	<b>Description:-</b> DSR-E and M 7-3 Laying of one number of PVC insulated and PVC sheathed / XLPE Power cable of 1.1 kv grade of folloeing size direct in ground including excavation, refilling the trench etc as required, but excluding sand cushioning and protective covering. DSR-E and M 7-3-2 Above 35 sq. mm and upto 95 sq. mm							
33	33C	25.00	Metre	287.00	7175.00	AT Par	7175.00	
	<b>Description:-</b> DSR-E and M 7-3 Laying of one number of PVC insulated and PVC sheathed / XLPE Power cable of 1.1 kv grade of folloeing size direct in ground including excavation, refilling the trench etc as required, but excluding sand cushioning and protective covering. DSR-E and M 7-3-4 DSR-E and M 7-3-4							
34	34A	25.00	Metre	126.00	3150.00	AT Par	3150.00	
	<b>Description:-</b> DSR-E and M 7-4 Laying of one number additional PVC insulated and PVC sheathed / XLPE Power cable of 1.1 kv grade of following size direct in ground in the same trench in one tier horizontal formation including excavation, refilling the trench etc as required, but excluding sand cushioning and protective covering. DSR-E and M 7-4-1 Upto 35 sq. mm							
34	34B	50.00	Metre	143.00	7150.00	AT Par	7150.00	
	<b>Description:-</b> DSR-E and M 7-4 Laying of one number additional PVC insulated and PVC sheathed / XLPE Power cable of 1.1 kv grade of following size direct in ground in the same trench in one tier horizontal formation including excavation, refilling the trench etc as required, but excluding sand cushioning and protective covering. DSR-E and M 7-4-2 Above 35 sq. mm and upto 95 sq. mm							
34	34C	25.00	Metre	213.00	5325.00	AT Par	5325.00	
	<b>Description:-</b> DSR-E and M 7-4 Laying of one number additional PVC insulated and PVC sheathed / XLPE Power cable of 1.1 kv grade of following size direct in ground in the same trench in one tier horizontal formation including excavation, refilling the trench etc as required, but excluding sand cushioning and protective covering. DSR-E and M 7-4-4 Above 185 sq. mm and upto 400 sq. mm							
35	35A	15.00	Metre	28.00	420.00	AT Par	420.00	
	<b>Description:-</b> DSR-E and M 7-6 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing masonry open duct as required. DSR-E and M 7-6-1 Upto 35 sq. mm							
35	35B	25.00	Metre	45.00	1125.00	AT Par	1125.00	
	<b>Description:-</b> DSR-E and M 7-6 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing masonry open duct as required. DSR-E and M 7-6-2 Above 35 sq. mm and upto 95 sq. mm							
35	35C	25.00	Metre	63.00	1575.00	AT Par	1575.00	
	<b>Description:-</b> DSR-E and M 7-6 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing masonry open duct as required. DSR-E and M 7-6-3 Above 95 sq. mm and upto 185 sq. mm							

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35	35D	35.00	Metre	115.00	4025.00	AT Par	4025.00	
	<b>Description:-</b> DSR-E and M 7-6 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing masonry open duct as required. DSR-E and M 7-6-4 Above 185 sq. mm and upto 400 sq. mm							
36	36	25.00	Metre	55.00	1375.00	AT Par	1375.00	
	<b>Description:-</b> DSR-E and M 7-7 Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required. DSR-E and M 7-7-1 Upto 35 sq. mm (clamped with 1mm thick saddle)							
37	37A	20.00	Metre	45.00	900.00	AT Par	900.00	
	<b>Description:-</b> DSR-E and M 7-8-1 Upto 35 sq. mm (clamped with 1mm thick saddle)							
37	37B	25.00	Metre	92.00	2300.00	AT Par	2300.00	
	<b>Description:-</b> DSR-E and M 7-8-2 Above 35 sq. mm and upto 95 sq. mm (clamped with 25 x 3 mm MS flat clamp)							
37	37C	25.00	Metre	185.00	4625.00	AT Par	4625.00	
	<b>Description:-</b> DSR-E and M 7-8-4 Above 185 sq. mm and upto 400 sq. mm (clamped with 40 x 3 mm MS flat clamp)							
38	38	20.00	Each	508.00	10160.00	AT Par	10160.00	
	<b>Description:-</b> DSR-E and M 7-10 Supplying and fixing cable route marker with 10 cm X 10 cm X 5 mm thick G.I. plate with inscription there on, bolted /welded to 35 mm X 35 mm X 6 mm angle iron, 60 cm long and fixing the same in ground as required.							
39	39A	15.00	Each	413.00	6195.00	AT Par	6195.00	
	<b>Description:-</b> DSR-E and M 9-1-22 3½ X 50 sq. mm (35mm)							
39	39B	5.00	Each	875.00	4375.00	AT Par	4375.00	
	<b>Description:-</b> DSR-E and M 9-1-27 3½ X 185 sq. mm (57mm)							
39	39C	15.00	Each	1027.00	15405.00	AT Par	15405.00	
	<b>Description:-</b> DSR-E and M 9-1-29 3½ X 240 sq. mm (62mm)							
39	39D	15.00	Each	269.00	4035.00	AT Par	4035.00	
	<b>Description:-</b> DSR-E and M 9-1-32 4 X 10 sq. mm (25mm)							
39	39E	5.00	Each	309.00	1545.00	AT Par	1545.00	
	<b>Description:-</b> DSR-E and M 9-1-33 4 X 16 sq. mm (28mm)							
39	39F	5.00	Each	315.00	1575.00	AT Par	1575.00	
	<b>Description:-</b> DSR-E and M 9-1@45"10@4 X 25 sq. mm (28mm)							
40	40A	100.00	Metre	127.00	12700.00	AT Par	12700.00	
	<b>Description:-</b> DSR-E and M 14-15-1 63 mm dia (OD-63 mm and ID-51 mm nominal)							
40	40B	100.00	Metre	248.00	24800.00	AT Par	24800.00	
	<b>Description:-</b> DSR-E and M 14-15-3 120 mm dia (OD-120 mm and 10-103 mm nominal)							
40	40C	15.00	Each	180.28	2704.20	AT Par	2704.20	
	<b>Description:-</b> (A) Tube Light with integral driver (i) 5-10 Watts, Surge-2 KV, IP-20, conventional 1 to 2 feet Cat.III							
40	40D	50.00	Each	326.23	16311.50	AT Par	16311.50	
	<b>Description:-</b> (A) Tube Light with integral driver (iii) 18-20 Watts, Surge - 2KV,IP-20, conventional 4 feet Cat.III							
41	41A	15.00	Each	450.00	6750.00	AT Par	6750.00	
	<b>Description:-</b> DSR EandM -1-50-1 Upto 450 mm sweep							
41	41B	125.00	Metre	343.90	42987.50	AT Par	42987.50	
	<b>Description:-</b> Up to 120 sq. mm.							
42	42	50.00	Metre	63.00	3150.00	AT Par	3150.00	
	<b>Description:-</b> DSR- EandM 8.4.1 Up to 120 sq. mm.							
43	43	1.00	Lumpsum	500000.00	500000.00	AT Par	500000.00	
	<b>Description:-</b> DSR EandM 2022 Any other DSR item related to electrical installation.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> ( ) E-Schedule-E Non Schedul Items for Electrical Works							1963915.25	Above/ Below/Par
1	1	10.00	Day	142.51	1425.10	AT Par	1425.10	

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		<b>Description:-</b> NS1 Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge. (20) Modular Buzzer Cat-III					
2	2	35.00	Each	107.31	3755.85	AT Par	3755.85
		<b>Description:-</b> NS2 Supplying and erecting fan hook box of 10 mm M.S. round bar bounded to the RCC bars up to 50mm length each side and pierced through a 16 Gauge M.S. box / Heavy Duty PVC box complete erected concealed in Ceiling with necessary finishing.					
3	3A	2.00	Each	4996.47	9992.94	AT Par	9992.94
		<b>Description:-</b> NS3 Providing and erecting Approved make Earth fault Relay suitable to mount with inter connection suitable to following size of moulded case circuit breaker having CT ratio and MCCB rating as following along with shunt trip 220V AC. with all internal connections and complete erected in existing M.S.housing.. Providing and erecting Approved make Earth fault Relay suitable to mount with inter connection suitable to following size of moulded case circuit breaker having CT ratio and MCCB rating as following along with shunt trip 220V AC. with all internal connections and complete erected in existing M.S.housing.. (2) 125 A -200 A , CT Ratio 1/200					
3	3B	1.00	Each	5430.01	5430.01	AT Par	5430.01
		<b>Description:-</b> NS3 (3) 250 A -400 A , CT Ratio 1/400					
3	3c	1.00	Each	6073.88	6073.88	AT Par	6073.88
		<b>Description:-</b> NS3 (4) 600 A -800 A , CT Ratio 1/800					
4	4	10.00	Each	875.67	8756.70	AT Par	8756.70
		<b>Description:-</b> NS4 Providing and erecting following additional parts for panel mounting MCCBs (A)Extended operating rotary handle with pad lock with three position trip,off,on suitable for 25A to 250 A panel mounting cat-III					
4	4A	1.00	Each	1313.50	1313.50	AT Par	1313.50
		<b>Description:-</b> NS4 (B)Extended operating rotary handle with pad lock with three position trip,off,on suitable for 400A to 630 A panel mounting cat-III					
5	5	1.00	Each	140545.03	140545.03	AT Par	140545.03
		<b>Description:-</b> Approved make standard Draw out type 4 Pole Air circuit breaker. Having 50 kA breaking capacity with ICU=ICS=ICW (1 sec)Vsr=690 v, Ui=1kv ,impulse voltage=12 kv with following type of relay and accessories. (2) Electrically Draw out type (EDO) with following type of relay system(B) with microprocessor Release with over load, short circuit, earth fault protection and metering display in modular design with LED display and Test Trip button facility, CTs and auxiliary contacts, of following current ratings. (ii) 1000Amp 50 kA Cat III					
6	6	2.00	Each	2120.49	4240.98	AT Par	4240.98
		<b>Description:-</b> NS6 Providing and erecting Accessories For Air Circuit Breakers as follows:					
6	6A	2.00	Each	9598.03	19196.06	AT Par	19196.06
		<b>Description:-</b> (C) Lockable Trip Push Button Kit L, M, LM, MN					
6	6B	1.00	Each	2172.00	2172.00	AT Par	2172.00
		<b>Description:-</b> (E) Locking of ACB in Any Position					
6	6C	1.00	Each	4017.78	4017.78	AT Par	4017.78
		<b>Description:-</b> (F) Racking Inter Lock					
6	6D	1.00	Each	2172.00	2172.00	AT Par	2172.00
		<b>Description:-</b> (G) Door Inter Lock					
7	7	8.00	Sqm	10499.44	83995.52	AT Par	83995.52
		<b>Description:-</b> NS7 Providing and erecting weather proof, dust and vermin proof, floor mounted front operated indoor type cubical panel board necessary IP-42 and above protection as per approval from engineer incharge made from 14 SWG thick CRC M.S. sheet for outer body and doors, 16 SWG thick CRC M.S.sheet for internal partitions with necessary accesories , supporting angles/ flats channel including cutting, bending, drilling, welding, riveting with internal partitions and cable alley as per requITEMents and instruction of engineer-in-charge with erection of supplied switch gears, BUSBARS, suitable size of inter connecting PVC copper wire / copper-aluminium strips, rubber grommets, rib, bakelite control fuses/MCB for measuring instruments, earth bus and earth bolts, foundation flange - bolts-base Plates, sufficient nos. of hinged doors, handles with locking arrangement and rubber gasket,heavy duty end terminal connection,danger notice board,necessary ventilation,earthing strip complete. The Panel shall be painted with epoxy powder coating. (The rates excludes the cost of switchgears, bus bars, inter connecting mains and Copper Aluminium strips, meters, Fuses etc. The dimension shall be measured excluding base beams) The panel shall be supplied with following approved manufacturers with following size. (A) locally fabricated panel board (i) with 350 mm depth					
7	7A	6.00	Sqm	27214.45	163286.70	AT Par	163286.70
		<b>Description:-</b> NS7 (A) locally fabricated panel board (iv) with 1000 mm. depth					
	8	2.00	Sqm	14929.31	29858.62	AT Par	29858.62

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8	<b>Description:-</b> NS8 Providing and erecting weather proof, dust and vermin proof, floor mounted front operated outdoor type double door cubical panel board necessary IP-54 and above protection as per approval from engineer incharge made from 14 SWG thick CRC M.S. sheet for outer body and doors, 16 SWG thick CRC M.S.sheet for internal partitions with necessary accesories , supporting angles/ flats channel including cutting, bending, drilling, welding, riveting with internal partitions and cable alley as per requITEMents and instruction of engineer-in-charge with erection of supplied switch gears, BUSBARS, suitable size of inter connecting PVC copper wire / copper-aluminium strips, rubber grommets, rib, bakelite control fuses/MCB for measuring instruments, earth bus and earth bolts, foundation flange - bolts-base Plates, sufficient nos. of hinged doors, handles with locking arrangement and rubber gasket,heavy duty end terminal connection,danger notice board,necessary ventilation,earthing strip complete. The Panel shall be painted with epoxy powder coating. (The rates excludes the cost of switchgears, bus bars, inter connecting mains and Copper Aluminium strips, meters, Fuses etc. The dimension shall be measured excluding base beams) The panel shall be supplied with following approved manufacturers with following size. (A) locally fabricated panel board (ii) With 550 mm. Depth						
9	9	50.00	Kg	77.26	3863.00	AT Par	3863.00
	<b>Description:-</b> NS9 Providing , erecting , fabricating the M.S. structure as per requITEMent on site incorporating proper size of M.S. angles,square,round, flats, bars, channels, sections complete with cutting, welding, grinding and finishing duly painted with one coat of red oxide with erection on site as per direction of engineer in charge with necessary grouting, cementing, plastering and finishing complete.						
10	10	2.00	RM	1038.78	2077.56	AT Par	2077.56
	<b>Description:-</b> NS10 Supplying and erecting triple pole and neutral 440V/ 500V panel mounting Aluminium Busbars with four equal Nos. of bus having current density not more than 0.8 Amp. / sq.mm (Rated current / cross section area) duly wrapped with colour insulating tape for phase sequence of following current carrying capacity, erected with necessary bus bar supports /insulators, main cable socket to each busbar,erected in existing cubical panel with necessary connections. (B) Suitable for 200 Amp. Capacity						
10	10A	1.00	RM	1472.32	1472.32	AT Par	1472.32
	<b>Description:-</b> NS 10 (C) Suitable for 300 Amp. Capacity						
10	10B	1.00	RM	3069.13	3069.13	AT Par	3069.13
	<b>Description:-</b> NS 10 (E) Suitable for 630 Amp. capacity						
10	10C	2.00	RM	7979.75	15959.50	AT Par	15959.50
	<b>Description:-</b> (G) Suitable for 1200 Amp.capacity						
11	11	2.00	Each	14165.25	28330.50	AT Par	28330.50
	<b>Description:-</b> NS11 Providing and erecting multifunctional meter suitable for application of Power monitoring and showing measurement of following Voltage, Frequency, Apparent energy, Apparent power, Active and reactive energy, Active and reactive power, Average voltage Vavg, Peak demand power PM, QM, SM, Demand power P, Q, S, Apparent power S, S1, S2, S3, Unbalance current, Power factor and displacement PF (signed, four quadrant), Calculated neutral current, Active, reactive, apparent energy (signed, four quadrant), Active power P, P1, P2, P3, Voltage U21, U32, U13, V1, V2, V3, Phase currents, Average current lag, Peak demand currents, Reactive power Q, Q1, Q2, Q3, Demand current I1, I2, I3, [Us] rated supply voltage 40...300 V AC 45...65 Hz, 40...300 V DC, Network frequency 50 Hz, Type of network 3P, Display type 7 segments LED, Display colour Red, Messages display capacity 3 fields of 4 characters, Display digits 12 digit(s) - 14.2 mm in height						
12	12	6.00	Each	274.72	1648.32	AT Par	1648.32
	<b>Description:-</b> NS12 Providing and erecting L.T. Current Transformer with bar primary 50/5 to 1000/5 ratio 15 VA burden erected in existing CRCA box duly secured with insulating materials connected to the meter						
13	13	10.00	Each	42.92	429.20	AT Par	429.20
	<b>Description:-</b> NS 13 Supplying and erecting approved make suitable panel indicator LED type lamp, lens cover, complete erected with necessary connections.						
14	14	125.00	Metre	280.72	35090.00	AT Par	35090.00
	<b>Description:-</b> NS 14 Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (C) 3 1/2 core 50 Sq. mm ( 25 Sq.1/2 mm core)						
15	15	50.00	Metre	901.42	45071.00	AT Par	45071.00
	<b>Description:-</b> NS15 Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (H) 3 1/2 core 185 Sq. mm ( 95 Sq. mm 1/2 core)						
16	16	75.00	Metre	1164.12	87309.00	AT Par	87309.00
	<b>Description:-</b> NS 16 Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (I) 3 1/2 core 240 Sq. mm( 120 Sq. mm 1/2 core)						
	17	75.00	Metre	137.36	10302.00	AT Par	10302.00



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17	<b>Description:-</b> NS 17 Providing and erecting XLPE (IS:7098)(I)-88 ISI armoured cable multistrand / Solid Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (C) 4 core 10 Sq. mm						
18	18	75.00	Metre	150.02	11251.50	AT Par	11251.50
	<b>Description:-</b> NS 18 Providing and erecting XLPE (IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (A) 4 core 16 Sq. mm						
19	19	25.00	Metre	188.01	4700.25	AT Par	4700.25
	<b>Description:-</b> NS 19 Providing and erecting XLPE (IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (B) 4 core 25 Sq. mm						
20	20	100.00	Each	652.46	65246.00	AT Par	65246.00
	<b>Description:-</b> NS 20 Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/aluminium pressure die cast powder coated and high U.V. and corrosion resistance with diffuser housed in aluminium casted body with company mark/name 160V to 270V, Power Factor more than 0.9, THD < 15 percent, CCT 3000 K to 6500K, Luminaire efficacy> 100 lumens/watt , LED driver efficiency > 85 percent ( fitting required LM-79 and LM-80 Certificates) (NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.) (A) Square/ Circular shaped Surface/Recessed Mount Downlight with provision for spring loaded mounting clips complete.IP20 (iii) 16-20 watts, Surge-2 KV Cat.III						
21	21	15.00	Each	180.28	2704.20	AT Par	2704.20
	<b>Description:-</b> NS 21 Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/ aluminium die cast powder coated and high U.V. and corrosion resistance with diffuser with company mark/name 160V to 270V, Power Factor more than 0.9, THD < 15percent, CCT 3000 K to 6500K, Luminaire efficacy> 100 lumens/watt ,LED LED driver efficiency > 85 percent (fitting required LM-79 and LM-80 Certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.) (A) Tube Light with integral driver (i) 5-10 Watts, Surge-2 KV, IP-20, conventional 1 to 2 feet Cat.III						
21	21A	50.00	Each	326.23	16311.50	AT Par	16311.50
	<b>Description:-</b> NS 21 (A) Tube Light with integral driver (iii) 18-20 Watts, Surge - 2KV,IP-20, conventional 4 feet Cat.III						
22	22	15.00	Each	686.80	10302.00	AT Par	10302.00
	<b>Description:-</b> NS 22 Supplying decorative table lamp with LED lamps of suitable nos equivalent of 11 W light with flexible copper wire cord with plug top. Cat.III						
23	23	25.00	Each	124.48	3112.00	AT Par	3112.00
	<b>Description:-</b> NS 23 Supplying and erecting led lamps with following wattage capacity of 220 to 240 voltage, minimum 15000 burning hours life, 500 V in built-surge protection,Polycarbonate diffuser, mounting suitable for E14 / E27 / B22 lamp holders, pf >= 0.5 (A) LED Lamps integral type, with PC diffuser suitable LAMP holder (ii) 5 to 8 watts Cat.III						
24	24	10.00	Each	2403.80	24038.00	AT Par	24038.00
	<b>Description:-</b> NS 24 Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/aluminium pressure die cast powder coated and high U.V. and corrosion resistance with diffuser housed in aluminium casted body with company mark/name 160V to 270V,Power Factor more than 0.9, THD < 15 percent, CCT 3000 K to 6500K, Luminaire efficacy> 100 lumens/watt , LED driver efficiency > 85 percent ( fitting required LM-79 and LM-80 Certificates) (NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.) (I) Adjustable spot light with COB led having aluminium reflector of following wattage (iv) 30 Watts Cat.III						
25	25	50.00	Each	2320.50	116025.00	AT Par	116025.00
	<b>Description:-</b> NS 25 Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10percent, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.						
26	26	15.00	Each	1708.41	25626.15	AT Par	25626.15
	<b>Description:-</b> NS 26 Supplying and erecting approved make low noise decorative exhaust fan having square frame ABS body with inbuilt lowers and square frame. 200mm with 1350RPM Cat.II						

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27	27	15.00	Each	450.00	6750.00	AT Par	6750.00	
	<b>Description:-</b> NS 27 Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required. Upto 450 mm sweep							
28	28	10.00	Per Unit	51000.00	510000.00	AT Par	510000.00	
	<b>Description:-</b> NS 28 Supply Installation, Testing and Commissioning of Split Air Conditioner, Wall Mount Type 1.5 Ton 5 Star							
29	29	2.00	Each	46788.25	93576.50	AT Par	93576.50	
	<b>Description:-</b> NS 29 Providing and erecting water cooler having storage capacity 150 Ltr. and cooling capacity 150 Ltr.per hour at the rate of an ambient temp of 45 degree C. The outlet temp. of the water should drop by 15 degree C within a hour, The water cooler should be comprising of hermetically sealed compressor, fan motor, condensing unit, water tank surrounded by evaporating, coil, thermostats, relay etc. complete with necessary inlet and outlet connection. The body of water cooler will be made from Stainless Steel.							
30	30	2.00	Each	65246.00	130492.00	AT Par	130492.00	
	<b>Description:-</b> NS 30 Supplying and erecting reverse osmosis (RO) water purification system with M.S. powder coated pedestal frame, prefilter housing carbon filter suitable buster DC pump, auto low and high pressure switches with following size of LPH capacity and erected as directed [D] 100 LPH with 1 phase / 3 phase Raw water pump of 500LPH at the rate of 2.5kg/cm <sup>2</sup> - (1No - Kirloskar /CRI/Lubi), Dual media filter 10"x54" - (1 No), Micron cartridge filter 20" x 2.5" ( 1No), High pressure pump 500LPH at the rate of 10kg/cm <sup>2</sup> - (1No - Shinge /CRI /Lubi), RO Membrane housing with RO membrane of 40*40 - (1No), RO pressure tube 4" x 1E - ( 1No), 0 - 1200LPH Rotameter -(2 Nos), with Recovery Rate 50percent.							
31	31	10.00	Each	7048.28	70482.80	AT Par	70482.80	
	<b>Description:-</b> NS 31 Supplying and erecting horizontal / vertical mounting type storage water heater with copper container housed in M.S./S.S./ABS body insulated with glass wool/puff complete with heating elements,adjustable thermostats 300C to 850C, indicating lamp, safety valve, fusible plug, etc.complete erected with coach bolts, nuts. washers and cementation (A) 10 Ltr. with 3 KW. heating element Premium Category							
32	32	125.00	Metre	498.75	62343.75	AT Par	62343.75	
	<b>Description:-</b> NS 32 Laying of One number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size direct in ground including excavation , sand cushioning, protective covering and refilling the trench etc as required. Up to 120 sq. mm.							
33	33	2.00	Each	14219.60	28439.20	AT Par	28439.20	
	<b>Description:-</b> NS 33 Supplying and making indoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core , XLPE aluminium conductor cable of 11 grade as required : 120 sq. mm.							
34	34	2.00	Each	1727.10	3454.20	AT Par	3454.20	
	<b>Description:-</b> NS 34 Supplying and erecting Right angle / straight boot made from Synthetic rubber and suitable for covering of cable up to 400 sq mm and should be installed directly on DIN Bushing on HT VCB or Transformer without bending of boot.							
35	35	2.00	Each	9443.50	18887.00	AT Par	18887.00	
	<b>Description:-</b> NS 35 SITC of Vertical Air Termination Solid aluminium with Base- 10 mm dia and 1000 mm long. Air Termination Base tested for conditioning, Ageing Test and Lightning impulse current withstand test: 100 kA of 10/350µs waveform in an accredited Third party laboratory as per 6.3 and 6.4 of IEC 62561-1 2017 protocol with MAST 34mm dia 3000 mm long- Cold Galvanized							
36	36	60.00	Metre	300.47	18028.20	AT Par	18028.20	
	<b>Description:-</b> NS 36 SITC of 8 mm dia solid Aluminium Conductor for roof top mesh grid and tested as per IEC 62561- 2 conducted in the Govt. accredited thirty party laboratory to meet the requirement of IS/IEC 62305 with Required Accessories - Aluminium Holding clamp at every 1 mtr distance, Aluminium/SS cross splicer at every crossing of Alu. conductor, Expansion piece with connectors at every 20 mtr distance, Aluminium straight Splicer to connect conductors. All Accessories should be tested as per IEC 62561-1 2018 Cl. 6.3 for conditioning and Ageing Test and 6.4 for Lightning impulse current withstand test: 100 kA of 10/350µs waveform(Ageing and Electrical test ) conducted in a sequence manner and tested in the Govt. accredited Third party laboratory to meet the requirements of IS/IEC 6230							
37	37	60.00	Metre	154.53	9271.80	AT Par	9271.80	
	<b>Description:-</b> NS 37 SITC of Galvanized Steel Flat 25x6 mm thickness from earth electrode directly in ground as required. Zinc coating: 500 g/m square (Approx:70 micron coating) tested and used exclusively for lightning protection earthing system and ring equipotential bonding.							
38	38	2.00	Each	6009.50	12019.00	AT Par	12019.00	
	<b>Description:-</b> NS 38 SITC of 14.2 mm dia 3 mtr long Earth electrode of High tensile steel electrode with 250 micron copper bonding and 1 bag of Carbon fill Based environment friendly backfill tested as per IEC 62561-7 in NABL accredited Laboratory and suitable stainless Steel double sided clamp. Eco Friendly rust proof heavy duty weather proof Polyethylene Earth Pit Chamber with following dimensions :254 mm dia (top), 330 mm dia (bottom) and 260 mm (height).							

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**3. ITEM BREAKUP**

No item break up added

**4. ELIGIBILITY CONDITIONS**

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

**Special Financial Criteria**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per Bid Document.	No	No	Allowed (Mandatory)

**Special Technical Criteria**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per Bid Document.	No	No	Allowed (Mandatory)

**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)

**6. Documents attached with tender**

S.No.	Document Name	Document Description
1	TenderDocumentMCSiding.pdf	Technical Bid
2	NewManauriTMDSidingSigned.pdf	Drawing
3	NIT1.pdf	NIT Doc

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:** ARVIND KUMAR PANDEY

**Designation :** DYPM/Engg./PRYJ/W