

**DYCE-C-I-AII-ENGINEERING/NORTH WESTERN RLY  
TENDER DOCUMENT**

Tender No: NWR-SC-AII-COR-DL-T

Closing Date/Time: 28/05/2024 15:00

DYCE C-1 AII acting for and on behalf of The President of India invites E-Tenders against Tender No **NWR-SC-AII-COR-DL-T** Closing Date/Time 28/05/2024 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>	Earth work in bank/cutting including Blanketing, Construction of Minor Bridges, RUB/LHS, FOB, Trolley refuges, Toe wall, Retaining wall, Pitching, Station buildings and Other structures, Platform, Platform sheds, Staff Quarters and other ancillary works from Ajmer(Excluding) to Singawal (Including) in connection with Doubling of Ajmer-Chanderiya in Ajmer division of North Western Railway.		
<b>Bidding type</b>	Two Stage Reverse Auction		
<b>Tender Type</b>	Open	<b>Bidding System</b>	Two Packet System
<b>Tender Closing Date Time</b>	28/05/2024 15:00	<b>Date Time Of Uploading Tender</b>	25/04/2024 12:20
<b>Pre-Bid Conference Required</b>	Yes	<b>Pre-Bid Conference Date Time</b>	01/05/2024 15:00
<b>Advertised Value</b>	2873179885.21	<b>Tendering Section</b>	WORKS
<b>Bidding Style</b>	Single Rate for Tender	<b>Bidding Unit</b>	Above/Below/Par
<b>Earnest Money (Rs.)</b>	10000000.00	<b>Validity of Offer ( Days)</b>	90
<b>Tender Doc. Cost (Rs.)</b>	0.00	<b>Period of Completion</b>	30 Months
<b>Contract Type</b>	Works	<b>Contract Category</b>	Expenditure
<b>Bidding Start Date</b>	14/05/2024	<b>Are Joint Venture (JV) firms allowed to bid</b>	Yes
<b>Ranking Order For Bids</b>	Lowest to Highest	<b>Expenditure Type</b>	Capital (Works)
<b>Auto Elimination rules applicable</b>	Yes	<b>Minimum Decrement (%)</b>	.1
<b>Initial Cooling Off Period (HH:MM)</b>	04:00	<b>Subsequent Cooling Off Period (HH:MM)</b>	00:20

**2. SCHEDULE**

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule B-DSR-2021 Items for civil works</b>							1542400326.56	
1	Please see Item Breakup for details.				2487742462.20	(-) 38.00	1542400326.56	
<b>Description:- DSR-2021 Items ofr Building Works</b>								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule C-DSR-2020 Horticulture</b>							2385659.25	
1	Please see Item Breakup for details.				3847837.50	(-) 38.00	2385659.25	
<b>Description:- DSR items</b>								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule D-NS Items for Civil Works</b>							64654482.30	
1	Please see Item Breakup for details.				51871637.30	AT Par	51871637.30	
<b>Description:- Non-Schedule Items for Civil Works</b>								
	Please see Item Breakup for details.				12782845.00	AT Par	12782845.00	

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<b>Description:-</b> Placement of precast reinforced cement concrete components ( RCC box/U-Type/L Type segments of retaining walls) with the help of suitable capacity road crane at desired location during traffic block of short duration with all contractor's labour, tools ,material, cranes, machinery, preparation of surface including cost of filling of joints by epoxy mortar, cutting of lifting hooks by gas cutting, all lead, lift, taxes etc complete in all respect.
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S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> E-Schedule - E For Electrical Items							2435480.00	
1	Please see Item Breakup for details.				2435480.00	AT Par	2435480.00	
<b>Description:-</b> Schedule-D for Electrical Items								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> A1-EARTH WORK							548951947.31	
1	Please see Item Breakup for details.				641074328.29	(-) 14.37	548951947.31	
<b>Description:-</b> EARTH WORK								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> A2-BRIDGE WORK							712351989.79	
1	Please see Item Breakup for details.				831895351.85	(-) 14.37	712351989.79	
<b>Description:-</b> BRIDGE WORK								

**3. ITEM BREAKUP**

Schedule	Schedule B-DSR-2021 Items for civil works						
Item- 1	DSR-2021 Items ofr Building Works						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount	
	2.0	<b>EARTH WORK</b>					
	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 lift upto 1.5 m, as directed by Engineer-in-charge.					
1	2.6.1	All kinds of soil	cum	114469	205.45	23517656.05	
	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	27406	412.95	11317307.7	
3	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	cum	10000	253.95	2539500	
4	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	111122	368.65	40965125.3	
	2.26	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.					

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5	2.26.1	All kinds of soil	cum	8509	104.5	889190.5
6	2.26.2	Ordinary or hard rock	cum	5753	187.4	1078112.2
	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.				
7	2.28.1	All kinds of soil	Sqm	14506	28.15	408343.9
	2.33	Felling trees of the girth (measured at a height of 1 m above ground level), including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material.				
8	2.33.1	Beyond 30 cm girth upto and including 60 cm girth	Each	32	439.25	14056
9	2.33.2	Beyond 60 cm girth upto and including 120 cm girth	Each	24	1957.15	46971.6
	2.34	Supplying chemical emulsion in sealed containers including delivery as specified.				
10	2.34.1	Chlorpyriphos emulsifiable concentrate of 20%	Litre	340	200.9	68306
	2.35	Diluting and injecting chemical emulsion for POST-CONSTRUCTION anti-termite treatment (excluding the cost of chemical emulsion) :				
	2.35.1	Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300mm including excavation channel along the wall & rodding etc. complete:				
11	2.35.1.1	With Chlorpyriphos E.C. 20% with 1% concentration	Metre	3413	32.3	110239.9
	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 :				
12	4.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	497	7365.15	3660479.55
13	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	2197	6833.4	15012979.8
14	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	18384	6670.25	122625876
	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	9623	307.95	2963402.85
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	33160	669.55	22202278
	4.6	Providing and fixing at or near ground level precast cement concrete in kerbs, edgings etc. as per approved pattern and setting in position with cement mortar 1:3 (1 Cement : 3 coarse sand), including the cost of required centering, shuttering complete.				

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17	4.6.1	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	689	8130.65	5602017.85
	4.10S	<b>DAMP-PROOF COURSE</b>				
18	4.10	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources: 4 graded stone aggregate 12.5mm nominal size derived from natural sources)	Sqm	5712	370.85	2118295.2
19	4.13	Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	Sqm	300	113.85	34155
	4.14S	<b>MISCELLANEOUS</b>				
	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. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the minimum specified cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.				
	4.20.1	<b>All works upto plinth level :</b>				
20	4.20.1.3	Concrete of M20 grade with minimum cement content of 270 kg /cum	cum	100	8387.15	838715
21	4.20.1.4	Concrete of M25 grade with minimum cement content of 300 kg /cum	cum	13797	8599.5	118647301.5
	4.20.2	<b>All works above plinth and upto floor V level :</b>				
22	4.20.2.4	Concrete of M25 grade with minimum cement content of 300 kg /cum	cum	1490	10221.85	15230556.5
	5.0	<b>REINFORCED CEMENT CONCRETE</b>				
	5.1S	<b>CAST IN SITU</b>				
23	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	200	10719.3	2143860

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24	5.5	Reinforced cement concrete work in arches, archribs, domes, vaults, shells, folded plate and roofs having slope more than 15 degree 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	150	11291.2	1693680
	5.9S	<b>FORM WORK</b>				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
25	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	16182	307.95	4983246.9
26	5.9.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	Sqm	159565	669.55	106836745.75
27	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	12940	766.55	9919157
28	5.9.4	Shelves (Cast in situ)	Sqm	159	766.55	121881.45
29	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	15793	608.35	9607671.55
30	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	6944	804.25	5584712
31	5.9.7	Stairs, (excluding landings) except spiral-staircases	Sqm	237	657.75	155886.75
32	5.9.9	Arches, domes, vaults up to 6 m span	Sqm	250	1826.25	456562.5
	5.11	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured).				
33	5.11.1	Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)	Sqm	250	319.25	79812.5
	5.12S	<b>PRE-CAST RCC</b>				
34	5.12	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like, including the cost of required centering, shuttering but , excluding cost of 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	1010	9673.5	9770235
35	5.15	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete in lintels, beams and bressumers, including setting in cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering and shuttering but , excluding the cost of 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	100	12321.25	1232125

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	5.18	Providing precast cement concrete Jali 1:2:4 (1 cement : 2 coarse sand(zone-III) : 4 graded stone aggregate 6mm nominal size ), reinforced with 1.6 mm dia mild steel wire, including centering and shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement: 3 fine sand) etc. complete, excluding plastering of the jambs, sills and soffits.				
36	5.18.1	50 mm thick	Sqm	200	1580.9	316180
	5.19S	<b>ENCASING ROLLED STEEL SECTION</b>				
37	5.21	Extra for providing and fixing expanded metal mesh of size 20x60 mm and strands 3.25 mm wide 1.6 mm thick weighing 3.64 kg per sqm for encasing of rolled steel sections in beams, columns and grillages, excluding cost of hangers.	Sqm	660	448.8	296208
	5.22S	<b>STEEL REINFORCEMENT</b>				
	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
38	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	5444171	89.65	488069930.15
	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
39	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	677567	89.65	60743881.55
	5.33S	<b>DESIGN MIX CONCRETE</b>				
	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. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 1.10 times of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.				
	5.33.1	<b>All works upto plinth level</b>				
40	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	51590	8683.8	447997242
41	5.33.1.2	Concrete of M30 grade with minimum cement content of 350 kg /cum	cum	4189	8825.35	36969391.15
	5.33.2	<b>All works above plinth level upto floor V level</b>				
42	5.33.2.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	100	10306.2	1030620
43	5.33.2.2	Concrete of M30 grade with minimum cement content of 350 kg /cum	cum	551	10477.75	5773240.25
	6.0	<b>MASONRY WORK</b>				
	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 :				

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44	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	1016	8288.35	8420963.6
	6.12S	<b>HALF BRICK MASONRY</b>				
	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.				
45	6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)	Sqm	678	1018.05	690237.9
	7.0	<b>STONE WORK</b>				
	7.1S	<b>RANDOM RUBBLE MASONRY</b>				
	7.1	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with :				
46	7.1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	46321	6653.45	308194457.45
	7.2	Random rubble masonry with hard stone in superstructure above plinth level and upto floor five level, including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) at window sills, ceiling level and the like.				
47	7.2.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	12761	8275.7	105606207.7
	7.4	Extra for random rubble masonry with hard stone in :				
48	7.4.1	Square or rectangular pillars	cum	508	787.05	399821.4
	7.24S	<b>MISCELLANEOUS STONE WORK</b>				
	7.28	Providing and fixing sloping chajja of stone 40 mm thick and upto 80 cm wide beyond the wall as measured along the slope in cement mortar 1:4 (1 cement : 4 coarse sand) with 12 mm diameter anchoring steel bar, 45 cm long, fixed in each stone and supported on and including with bricks cove in cement mortar 1:4 (1 cement : 4 coarse sand), including pointing in cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade :				
	7.28.1	Red sand stone :				
49	7.28.1.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	Sqm	319	2297.9	733030.1
50	7.30	30 mm red sand stone sun-shade (chisel-dressed) supported on red sand stone brackets, fixed in walls with cement mortar 1:4 (1 cement : 4 coarse sand), including finishing complete.	Sqm	170	1703	289510
51	7.31	Providing and fixing red sand stone brackets 55x22.5x45 cm sunk and moulded including providing and fixing with 4 Nos gun metal cramp 25x6 mm 30 cm long	Each	168	5362.25	900858
	7.32	Stone work, plain in copings, cornices, string courses and plinth courses, upto 75 mm thick in Cement mortar 1:6 (1 cement : 6 coarse sand), including pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.				
52	7.32.1	Red sand stone	cum	10	72090.35	720903.5
	7.33	Providing and fixing stone jali 40 mm thick throughout in cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment, matching the stone shade, jali slab without any chamfers etc.				
53	7.33.1	Red sand stone	Sqm	1125	12241.7	13771912.5



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	7.38	Stone tile work for wall lining upto 10 m height with special adhesive over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement with an admixture of pigment to match the stone shade.				
	7.38.1	8mm thick (mirror polished and machine cut edge)				
54	7.38.1.1	Granite stone of any colour and shade	Sqm	734	2675.7	1963963.8
	8.0	<b>CLADDING WORK</b>				
	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 of edges to give high gloss finish etc. complete at all levels.				
	8.2.1	Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble				
55	8.2.1.1	Area of slab upto 0.50 sqm	Sqm	644	2906.45	1871753.8
56	8.2.1.2	Area of slab over 0.50 sqm	Sqm	110	2639.45	290339.5
	8.2.2	Granite stone slab of colour black, Cherry/Ruby red				
57	8.2.2.1	Area of slab upto 0.50 sqm	Sqm	110	4679.35	514728.5
58	8.2.2.2	Area of slab over 0.50 sqm	Sqm	148	4425.35	654951.8
	8.2.3	Granite stone slab of all colour and texture except black, Cherry/Ruby red				
59	8.2.3.1	Area of slab upto 0.50 sqm	Sqm	100	3555.45	355545
60	8.2.3.2	Area of slab over 0.50 sqm	Sqm	120	3301.45	396174
	8.3	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.				
61	8.3.1	Marble work	Metre	1000	244.9	244900
62	8.3.2	Granite work	Metre	578	418.85	242095.3
63	8.5	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	Each	42	808.15	33942.3
64	8.6	Mirror polishing on marble work/Granite work/stone work where ever required to give high gloss finish complete.	Sqm	120	417.6	50112
	8.14	Stone work (machine cut edges) for wall lining etc. (veneer work) upto 10 metre height, backing filled with a grout of average 12 mm thick cement mortar 1:3 (1 cement : 3 coarse sand) including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade : (To be secured to the backing and the sides by means of cramps and pins which shall be paid for separately) :				
	8.14.1	Red sand stone - exposed face fine dressed with rough backing.				
65	8.14.1.5	30 mm thick	Sqm	2704	4229.85	11437514.4



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	8.20S	<b>STONE WORK DRY CLADDING</b>				
66	8.22	Providing and fixing adjustable stainless steel cramps of approved quality, required shape and size, adjustable with stainless steel nuts, bolts and washer (total weight not less than 260 gms), for dry stone cladding fixed on frame work at suitable location, including making necessary recesses in stone slab, drilling required holes etc complete as per direction of the Engineer-in-charge.	Each	200	365.65	73130
	8.24	Providing and fixing expandable fasteners of specified size with necessary plastic sleeves and galvanised M.S. screws including drilling holes in masonry work /CC/ R.C.C. and making good etc. complete.				
67	8.24.3	40 mm long	Each	1000	24.75	24750
68	8.24.4	50 mm long	Each	1000	26.1	26100
69	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	1213	1063.45	1289964.85
	9.0	<b>WOOD AND P.V.C. WORK</b>				
	9.5	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, fixing with butt hinges of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. (Note:- Butt hinges and necessary screws shall be paid separately)				
	9.7.7	<b>Float glass panes</b>				
70	9.7.7.1	4 mm thick glass pane (weight not less than 10kg/sqm).	Sqm	217	1897.1	411670.7
71	9.7.8	Fly proof stainless steel grade 304 wire gauge with 0.5 mm dia. wire and 1.4mm wide aperture with matching wood beading	Sqm	378	1521.6	575164.8
	9.16	Providing and fixing 25 mm thick shutters for cup board etc. :				
	9.18	Providing and fixing Pre-laminated flat pressed 3 layer (medium density) particle board or graded wood particle board IS : 3087 marked, with one side decorative and other side balancing lamination Grade I, Type II exterior grade IS : 12823 marked, in shelves with screws and fittings wherever required, edges to be painted with polyurethane primer (fittings to be paid separately).				
72	9.18.1	18 mm thick	Sqm	101	1089.3	110019.3
73	9.18.2	25 mm thick	Sqm	50	1501	75050
	9.20	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				

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74	9.20.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	569	3086.1	1755990.9
	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:				
75	9.21.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	88	2015.75	177386
76	9.21.2	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	35	1881.95	65868.25
77	9.21.3	25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws	Sqm	50	1830	91500
78	9.23	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).	Sqm	25	401.4	10035
	9.25	Extra if louvers (not exceeding 0.2 sqm) are provided in flush door shutters (overall area of door shutters to be measured).				
79	9.25.1	Decorative type door	Sqm	51	354.55	18082.05
	9.27	Providing and fixing wire gauge shutters using galvanized M.S. wire gauge of average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm, for doors, windows and clerestory windows with hinges and necessary screws :				
	9.27.1	35 mm thick shutters				
	9.27.1.1	with ISI marked M.S. pressed butt hinges bright finished of required size				
80	9.27.1.1.1	Second class teak wood	Sqm	275	4342.3	1194132.5
	9.40S	<b>MISCELLANEOUS-WOOD WORK</b>				
81	9.42	Providing and fixing 18 mm thick, 150 mm wide pelmet of flat pressed 3 layer or graded wood particle board medium density grade I, IS : 3087 marked, including top cover of 6 mm commercial ply wood conforming to IS: 303 BWR grade, nickel plated M.S. pipe 20 mm dia ( heavy type) curtain rod with nickel plated brackets, including fixing with 25x3 mm M.S. flat 10 cm long fixed to pelmet with hollock wood cleats of size 100 mm x 40 mm x 40 mm on both inner side of pelmet and rawl plugs 75 mm long etc. all complete.	Metre	437	511.55	223547.35
	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 :				
82	9.46.2	20 mm dia	Metre	517	375.25	194004.25
	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.				
83	9.48.1	Fixed to steel windows by welding	Kg	7757	181	1404017
84	9.48.2	Fixed to openings /wooden frames with rawl plugs screws etc.	Kg	2150	197.7	425055
	9.57S	<b>COPER OXIDISED MILD STEEL FITTINGS (COPPER OXIDISED AS PER IS: 1378)</b>				

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	9.62	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete : (copper oxidized as per IS: 1378)				
85	9.62.1	300x16 mm	Each	134	180.55	24193.7
	9.70S	<b>STAINLESS STEEL FITTINGS</b>				
	9.70	Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc. complete :				
86	9.70.1	125x64x1.90 mm	Each	378	95.5	36099
	9.72S	<b>BRASS FITTINGS</b>				
	9.74	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete :				
87	9.74.1	250x10 mm	Each	152	374.35	56901.2
88	9.74.3	150x10 mm	Each	102	232.3	23694.6
	9.81	Providing and fixing bright finished brass handles with screws etc. complete:				
89	9.81.1	125 mm	Each	222	205.1	45532.2
90	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	109	1025.65	111795.85
	9.88S	<b>CHROMIUM PLATED BRASS FITTINGS</b>				
	9.90	Providing and fixing special quality chromium plated brass cupboard locks with six levers of approved quality including necessary screws etc. complete.				
91	9.90.3	Size 65 mm	Each	20	321.1	6422
92	9.91	Providing and fixing chromium plated brass 50 mm cupboard or wardrobe knobs with nuts complete.	Each	1050	122.5	128625
	9.95S	<b>ANODISED ALUMINIUM FITTINGS (ALL FITTINGS SHALL BE ISI MARKED)</b>				
	9.96	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete :				
93	9.96.1	300x16 mm	Each	367	260.3	95530.1
94	9.96.2	250x16 mm	Each	50	234.9	11745
	9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868 ) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
95	9.97.1	300x10 mm	Each	367	117.65	43177.55
96	9.97.3	200x10 mm	Each	50	90.8	4540
	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 :				
97	9.100.1	125 mm	Each	528	60.05	31706.4
98	9.100.2	100 mm	Each	50	53.25	2662.5

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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.				
99	9.101.2	Twin rubber stopper	Each	437	62.25	27203.25
	9.105S	<b>GYPSUM BOARD PARTITIONS</b>				
100	9.169	Providing and fixing 19mm thick both side balancing lamination factory pressed BWP grade marine ply as per IS 710 of approved brand boxes,shelves,racks,almirah,cupboard and drawer etc. including necessary nails,screws etc. complete as per direction of Engineer-in-charge.	Sqm	572	2339.6	1338251.2
101	9.173	Providing and fixing ready made 304 grade stainless steel Modular kitchen basket and accessories such as right angle basket (Plain Cup & Saucer, plant, Partition, Bottle rack, Thali, Cutlery) kitchen utensil basket, Dinner set basket, kitchen grain basket, Multipurpose basket as per site requirement including finishing (wherever required) and fittings. The same shall be fixed with necessary stainless steel nuts & bolts, Stainless Steel screws & telescopic channel etc. as per direction of Engineer-in-charge. (For payment purpose only weight of Stainless steel basket shall be considered excluding weight of all fixing accessories such as nuts, bolts, fasteners telescopic basket channels etc. Payment of providing and fixing telescopic channel shall be paid separately)	Kg	1050	423.7	444885
	10.0	<b>STEEL WORK</b>				
102	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	2100	93.05	195405
103	10.2	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	1025756	111.95	114833384.2
104	10.4	Providing and fixing 1 mm thick M.S. sheet sliding-shutters, with frame and diagonal braces of 40x40x6 mm angle iron, 3 mm M.S. gusset plates at the junctions and corners, 25 mm dia pulley, 40x40x6 mm angle and T- iron guide at the top and bottom respectively, including applying a priming coat of approved steel primer	Sqm	38	5374.35	204225.3
	10.5	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.				
105	10.5.1	Using M.S. angels 40x40x6 mm for diagonal braces	Sqm	31	4781.15	148215.65
	10.10	Fixing standard steel glazed doors, windows and ventilators in walls, including fixing of float glass panes with glazing clips and special metal-sash putty of approved make, or metal beading with screws, (only steel windows, glass panes cut to size and glazing clips or metal beading with screws, shall be supplied by department free of cost.				

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106	10.10.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	Kg	12319	69.35	854322.65
	10.11	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D,F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment).				
107	10.11.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	Kg	100	175.65	17565
	10.13	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.				
108	10.13.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	Kg	100	114.65	11465
	10.14	Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm, pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge:				
	10.14.1	Profile B				
109	10.14.1.1	Fixing with adjustable lugs with split end tail to each jamb	Metre	1373	444.5	610298.5
	10.14.2	Profile C				
110	10.14.2.1	Fixing with adjustable lugs with split end tail to each jamb	Metre	604	471.25	284635
	10.16	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.				
111	10.16.1	Hot finished welded type tubes	Kg	133301	154.9	20648324.9
112	10.16.3	Electric resistance or induction butt welded tubes	Kg	10000	140.85	1408500

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113	10.18	Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp, of internal dia 140 mm, 73 mm height, top lid of 1.5 mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron/ M.S. sheet box by means of 3.3 mm dia round headed screws, one lock at the corners. Clamp shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing.	Each	121	185.2	22409.2
114	10.19	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.	Kg	44500	88.5	3938250
	10.25	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
115	10.25.1	In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete	Kg	5700	102.25	582825
116	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	Kg	30149	142.3	4290202.7
	10.26	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer.				
117	10.26.1	M.S. tube	Kg	2969	157.15	466578.35
118	10.28	Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	Kg	1050	612.25	642862.5
	10.29	Providing & fixing fly proof wire gauge to windows, clerestory windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete.				
119	10.29.1	Galvanised M.S. Wire gauge with 0.63 mm dia wire and 1.4 mm aperture on both sides	Sqm	440	732.2	322168
	10.30	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with :				
120	10.30.2	5.5 mm thick glass panes (weight not less than 12.50 kg/sqm)	Sqm	420	1243.5	522270
	11.0	<b>FLOORING</b>				
	11.16S	<b>TILE FLOORING</b>				
	11.16	Precast terrazo tiles 22 mm thick with graded marble chips of size upto 12 mm, laid in floors, and landings, jointed with neat cement slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete, on 20 mm thick bed of cement mortar 1:4 (1 cement:4 coarse sand) :				
121	11.16.4	Ordinary cement without any pigment	Sqm	2537	1163.2	2951038.4

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	11.20	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).				
122	11.20.3	Dark shade pigment using ordinary cement	Sqm	12229	983.95	12032724.55
	11.21	Providing and fixing 10 mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding, and joints filled with acid and/or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in- Charge.				
	11.21.1	In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)				
123	11.21.1.1	Acid and alkali resistant tile	Sqm	161	1515.45	243987.45
	11.21.2	In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)				
124	11.21.2.1	Acid and alkali resistant tile	Sqm	330	1637.7	540441
	11.26S	<b>KOTA STONE FLOORING</b>				
	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) :				
125	11.26.1	25 mm thick	Sqm	8534	1706.6	14564124.4
126	11.27	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	Sqm	700	2038.55	1426985
	11.28S	<b>SAND STONE FLOORING</b>				
127	11.31	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.	Metre	525	157.35	82608.75
	11.37S	<b>CERAMIC GLAZED TILES</b>				
128	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 @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	Sqm	514	935.6	480898.4
	11.41S	<b>VITRIFIED FLOOR TILES</b>				
	11.41A	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.				
	11.41A.1	Double charge vitrified tile polished finish of size				
129	11.41A.1.1	Size of Tile 600 x 600 mm	Sqm	3547	1286.6	4563570.2



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	11.56	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.				
130	11.56.1	Polished Granite stone slab colour of Black, Cherry/Ruby Red or equivalent	Sqm	1200	3908.8	4690560
	12.0	<b>ROOFING</b>				
	12.1S	<b>SHEET ROOFING</b>				
	12.21	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :				
131	12.21.1	In 75x75 mm deep chase	Metre	1936	260.2	503747.2
132	12.22	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	Each	100	266.6	26660
	12.37S	<b>RAIN WATER SPOUT AND PIPE</b>				
	12.38	Providing and fixing M.S. holder bat clamps of approved design to C.I. or S.C.I. rain water pipes embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and cost of cutting holes and making good the walls etc. :				
133	12.38.1	100 mm diameter	Each	252	308.45	77729.4
	12.40	Providing, fixing and embedding sand cast iron accessories for rain water pipes in the masonry surrounded with 12 mm thick cement mortar of the same mix, as that of masonry (lead caulking will be paid for separately):				
	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.				
134	12.41.1	75 mm diameter	Metre	10000	213	2130000
135	12.41.2	110 mm diameter	Metre	3468	319.75	1108893
	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	<b>Coupler</b>				
136	12.42.1.2	110 mm	Each	179	119.95	21471.05
	12.42.2	<b>Single pushfit Coupler</b>				
137	12.42.2.2	110 mm	Each	157	110.6	17364.2

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	12.42.5	Bend 87.5 degrees				
138	12.42.5.2	110 mm bend	Each	225	132	29700
	12.42.6	Shoe (Plain)				
139	12.42.6.2	110 mm Shoe	Each	163	115.95	18899.85
	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.				
140	12.43.2	110 mm	Each	293	309.5	90683.5
141	12.50	Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	Sqm	13151	671.55	8831554.05
	12.51	Providing and fixing pre-coated galvanised steel sheet roofing accessories 0.50 mm (+0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete :				
142	12.51.1	Ridges plain (500 - 600mm)	Metre	1876	450.6	845325.6
143	12.51.6	Gutter (600 mm over all girth)	Metre	200	1110.6	222120

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	12.52	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections ( galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.				
144	12.52.1	GI Metal Ceiling Lay in plain Tegular edge Global white color tiles of size 595x595 mm, and 0.5 mm thick with 8 mm drop; made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending.	Sqm	340	1591.7	541178
	13.0	<b>FINISHING</b>				
	13.1S	<b>CEMENT PLASTER (IN FINE SAND)</b>				
	13.1	<b>12 mm cement plaster of mix :</b>				
145	13.1.2	1:6 (1 cement: 6 fine sand)	Sqm	7404	282	2087928
	13.3	<b>20 mm cement plaster of mix :</b>				
146	13.3.1	1:4 (1 cement: 4 fine sand)	Sqm	93280	402.15	37512552
	13.11S	<b>CEMENT PLASTER IN TWO COATS</b>				
147	13.11	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement : 6 fine sand).	Sqm	414	442.75	183298.5
	13.16S	<b>6MM CEMENT PLASTER</b>				
	13.16	<b>6 mm cement plaster of mix :</b>				
148	13.16.1	1:3 (1 cement : 3 fine sand)	Sqm	18120	253.05	4585266
149	13.18	Neat cement punning.	Sqm	220	67.8	14916
	13.20S	<b>PEBBLE DASH PLASTER</b>				
150	13.21	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers.	Per bag of cement of 50kg	500	60.55	30275
	13.23	Extra for plastering on circular work not exceeding 6 m in radius:				
151	13.23.2	In two coats	Sqm	250	59.75	14937.5

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	13.24	Extra for plastering done on moulding, cornices or architraves including neat finish to line and level:				
152	13.24.1	In one coat	Sqm	150	587.2	88080
	13.25	Extra for plastering:				
153	13.25.1	Spherical ceiling	Sqm	250	146.65	36662.5
154	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	22975	214.3	4923542.5
	13.41	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade :				
155	13.41.1	New work (two or more coats) over and including water thinnable priming coat with cement primer	Sqm	37232	162.55	6052061.6
	13.42	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gms/litre, of approved manufacturer, of required shade and colour complete, as per manufacturer's specification.				
156	13.42.1	Two or more coats on new work	Sqm	59294	92.75	5499518.5
	13.44S	EXTERIOR FINISHING				
	13.44	Finishing walls with water proofing cement paint of required shade :				
157	13.44.1	New work (Two or more coats applied @ 3.84 kg/10 sqm)	Sqm	2160	97.6	210816
	13.45	Finishing walls with textured exterior paint of required shade :				
158	13.45.1	New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm	Sqm	500	245	122500
	13.46	Finishing walls with Acrylic Smooth exterior paint of required shade :				
159	13.46.1	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	Sqm	27924	166.85	4659119.4
	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
160	13.61.1	Two or more coats on new work	Sqm	18519	131.45	2434322.55
	13.62	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :				
161	13.62.1	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	Sqm	413	191.4	79048.2
	13.63	Painting with aluminium paint of approved brand and manufacture to give an even shade .				
162	13.63.1	Two or more coats on new work	Sqm	1500	121.45	182175
163	13.71	Lettering with black Japan paint of approved brand and manufacture	per letter per cm height	5000	5.05	25250
	13.73	Forming groove of uniform size in the top layer of washed stone grit plaster as per approved pattern using wooden battens, nailed to the under layer, including removal of wooden battens, repair to the edges of panels and finishing the groove complete as per specifications and direction of the Engineer-in-charge :				
164	13.73.1	15 mm wide and 15 mm deep groove	Metre	500	62.5	31250

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165	13.80	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	Sqm	32578	123.85	4034785.3
	14.0	<b>REPAIRS TO BUILDING</b>				
	14.26S	<b>WOOD WORK</b>				
166	14.29	Providing and fixing M.S. round or square bars with M.S. flats at required spacing in wooden frames of windows and clerestory windows.	Kg	4525	99.7	451142.5
	14.75AS	<b>ROUTINE MAINTENANCE WORK</b>				
	14.80	Providing & fixing White vitreous china water closet squatting pan (Indian type) along with "S" or "P" trap including dismantling of old WC seat and "S" or "P" trap at site complete with all operations including all necessary materials, labour and disposal of dismantled material i/c malba, all complete as per the direction of Engineer-in charge.				
167	14.80.2	Orissa pattern W.C Pan of size 580x440 mm	Each	38	3850.65	146324.7
	15.0	<b>DISMANTLING AND DEMOLISHING</b>				
	15.2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.				
168	15.2.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	cum	800	2007.1	1605680
169	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	800	2928.1	2342480
	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.				
170	15.7.4	In cement mortar	cum	200	1698.45	339690
	15.9	Demolishing stone rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge :				
171	15.9.2	In cement mortar	cum	3939	2027.1	7984746.9
	15.12	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :				
172	15.12.1	Of area 3 sq. metres and below	Each	240	302.7	72648
173	15.12.2	Of area beyond 3 sq. metres	Each	160	414.55	66328
	15.17	Dismantling steel work in single sections including dismembering and stacking within 50 metres lead in:				
174	15.17.2	Channels, angles, tees and flats	Kg	14500	1.9	27550
175	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	36000	4.65	167400
	15.28	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of:				

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176	15.28.1	G.S. Sheet	Sqm	4000	136	544000
177	15.28.2	Asbestos Cement sheet	Sqm	4000	63.75	255000
178	15.36	Dismantling barbed wire or flexible wire rope in fencing including making rolls and stacking within 50 metres lead.	Kg	7500	30.35	227625
	15.44	Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-in-charge :				
179	15.44.1	15 mm to 40 mm nominal bore	Metre	1600	124.1	198560
180	15.44.2	Above 40 mm nominal bore	Metre	1600	134.25	214800
181	15.58	Demolishing R.C.C. work by mechanical means and stockpiling at designated locations and disposal of dismantled materials up to a lead of 1 kilometre, stacking serviceable and unserviceable material separately including cutting reinforcement bars.	cum	700	2328.55	1629985
182	15.59	Dismantling of flexible pavement (bituminous courses) by mechanical means and disposal of dismantled material up to a lead of 1 kilometre, as per direction of Engineer-in-charge.	cum	170	347.9	59143
183	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	700	219.35	153545
	16.0	<b>ROAD WORK</b>				
	16.1S	<b>ROADS</b>				
184	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 earthwith lead upto 50 metres.	Sqm	23000	180.5	4151500
	16.3	<b>Supplying and stacking at site.</b>				
185	16.3.1	90 mm to 45 mm size stone aggregate	cum	375	1937.6	726600
186	16.4	Laying, spreading and compacting stone aggregate of specified sizes to WBM specifications in uniform thickness, hand picking, rolling with 3 wheeled road/vibratory roller 8-10 tonne capacity in stages to proper grade and camber, applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate, watering and compacting to the required density .	cum	8941	865.8	7741117.8
	16.6	<b>Supplying, stacking and Spreading 6 mm thick red bajri, watering and rolling complete including preparation of the surface and rolling.</b>				
187	16.6.1	With road roller/ hand roller	Sqm	500	21.8	10900
	16.25S	<b>SURFACE DRESSING</b>				
	16.28	<b>Surface dressing one coat on new surface with bitumen of specified grade at a rate of 1.95 kg/sqm of surface area with 1.5 cum of stone chippings 13.2 mm nominal size per 100 sqm of road surface, including consolidation with road roller of 6 to 8 tonne capacity , etc. complete :</b>				
188	16.28.1	Using bitumen emulsion (minimum 50% bitumen content- RS grade conforming to IS : 8887)	Sqm	3500	169.8	594300

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	16.31	Providing and applying tack coat using bitumen emulsion conforming to IS:8887, using emulsion pressure distributor including preparing the surface & cleaning with mechanical broom.				
	16.31.1	With rapid setting bitumen emulsion				
189	16.31.1.1	On W.B.M / W.M.M. @ 0.4kg/sqm	Sqm	3500	11.6	40600
190	16.31.1.2	On bituminous surface @ 0.25kg/sqm	Sqm	3500	7.9	27650
	16.33	2.5 cm premix carpet surfacing with 2.25 cum and 1.12 cum of stone chippings of 13.2 mm and 11.2 mm size respectively per 100 sqm and 52 kg and 56 kg of hot bitumen per cum of stone chippings of 13.2 mm and 11.2 mm size respectively, including a tack coat with hot straight run bitumen, including consolidation with road roller of 6 to 9 tonne capacity etc. complete (tack coat to be paid for separately).				
191	16.33.1	With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt	Sqm	3500	227	794500
	16.38	2.5 cm thick bitumastic sheet with hot bitumen of approved quality, using stone chippings (60% with 12.5 mm nominal size and 40% with 10 mm nominal size) @ 1.65 cum per 100 sqm and coarse sand @ 1.65 cum per 100 sqm of road surface and with bitumen @ 56 kg/cum of stone chippings and @ 128 kg/cum of sand over a tack coat with hot straight run bitumen, including consolidation with road roller of 8 to 10 tonne etc. complete. (tack coat to be paid separately) :				
192	16.38.1	With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt	Sqm	3500	285	997500
	16.40S	<b>SEAL COAT</b>				
193	16.40	Providing and laying seal coat of premixed fine aggregate ( passing 2.36 mm and retained on 180 micron sieve) with bitumen using 128 kg of bitumen of grade VG - 10 bitumen per cum of fine aggregate and 0.60 cum of fine aggregate per 100 sqm of road surface, including rolling and finishing with road roller all complete.	Sqm	3500	79.85	279475
	16.42S	<b>CONCRETE PAVEMENTS</b>				
194	16.42	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size) in pavements, laid to required slope and camber in panels as required including consolidation finishing and tamping complete.	cum	2200	7399.2	16278240



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	16.43	Providing and laying design mix cement concrete of M-30 grade, in roads/ taxi tracks/ runways, using cement content as per design mix, using coarse sand and graded stone aggregate of 40 mm nominal size in appropriate proportions as per approved & specified design criteria, providing dowel bars with sleeve/ tie bars wherever required, laying at site, spreading and compacting mechanically by using needle and surface vibrators, levelling to required slope/ camber, finishing with required texture, including steel form work with sturdy M.S. channel sections, curing, making provision for contraction/ expansion, construction & longitudinal joints (10 mm wide x 50 mm deep) by groove cutting machine, providing and filling joints with approved joint filler and sealants, complete all as per direction of Engineer-in-charge (Item of joint fillers, sealants, dowel bars with sleeve/ tie bars to be paid separately).				
195	16.43.2	Cement concrete manufactured in automatic batching plant (RMC plant) i/c transportation to site in transit mixer	cum	2852	10006.65	28538965.8
	16.46	Providing and filling in position rubberized bitumen hot sealing compound for sealing of expansion joints in roads / pavements all complete as per direction of the Engineer-in-Charge.				
196	16.46.1	Using grade 'A' sealing compound conforming to IS: 1834.	per cm depth per cm width per metre length	50	7.5	375
	16.49S	MISCELLANEOUS				

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	16.59	Manufacturing, supplying and fixing retro reflective sign boards made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity encapsulated type heat activated retro reflective sheeting conforming to type - IV of ASTM-D 4956-01 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and borders etc. as per IRC ; 67:2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class - 2 of ASTM-D-4956-01 and fixing the same with suitable sized aluminium alloy rivets @ 20 cm c/c to back support frame of M.S. angle iron of size 25x25x3 mm along with theft resistant measures, mounted and fixed with 2 Nos. M.S. angles of size 35x35x5 mm to a vertical post made up to M.S. Tee section ISMT 50x50x6 mm welded with base plate of size 100x100x5 mm at the bottom end and including making holes in pipes, angles flats, providing & fixing M.S. message plate of required size, steel work to be painted with two or more coats of synthetic enamel paint of required shade and of approved brand & manufacture over priming coat of zinc chromate yellow primer (vertical MS-Tee support to be painted in black and white colours).Backside of aluminium sheet to be painted with two or more coats of epoxy paint over and including appropriate priming coat including all leads and lifts etc. complete as per drawing , specification and direction of Engineer-in-charge.				
197	16.59.1	Mandatory/ Regulatory sign boards of 900 mm diametre with support length of 3750 mm	Each	80	5745.95	459676
198	16.59.2	Cautionary /warning sign boards of equilateral triangular shape having each side of 900 mm with support length of 3650 mm	Each	171	4209.2	719773.2
199	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	638	623.8	397984.4
200	16.69	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	cum	686	8613.55	5908895.3

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201	16.75	Providing and laying C.C. pavement of mix M-25 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator , vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-in-charge. (The panel shuttering work shall be paid for separately). (Note:- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/ recoverable separately).	cum	1774	8277.55	14684373.7
202	16.90	Providing and laying tactile tile (for vision impaired persons as per standards) of size 300x300x9.8mm having with water absorption less than 0.5% and conforming to IS:15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (1 cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-Charge.	Sqm	2244	1719	3857436
	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.				
203	16.91.2	80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.	Sqm	15398	1011.2	15570457.6
	17.0	<b>SANITARY INSTALLATIONS</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 :				
204	17.2.2	W.C. pan with ISI marked black solid plastic seat and lid	Each	33	5426.8	179084.4
	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:				
205	17.7.2	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap	Each	19	1913.75	36361.25
206	17.7.4	White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap	Each	3	1679.6	5038.8
207	17.7.6	White Vitreous China Angle back wash basin size 400 x 400 mm with single 15 mm C.P. brass pillar tap	Each	62	1512.35	93765.7

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208	17.7B	Providing and fixing wash basin with C.I. brackets, 15 mm PTMT pillar cock, 32 mm PTMT waste coupling of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required. White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm PTMT pillar cock.	Each	35	1404	49140
	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				
209	17.10.1.2	510x1040 mm bowl depth 225 mm	Each	22	6677.4	146902.8
210	17.16A	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge.	Each	42	299.35	12572.7
211	17.23	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm or 340x410x265 mm sizes respectively.	Each	20	1382.3	27646
	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				
212	17.28.2.1	32 mm dia	Each	60	104.35	6261
213	17.29	Providing and fixing 100 mm sand cast Iron grating for gully trap.	Each	60	45.25	2715
	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 :				
214	17.32.2	Rectangular shape 453x357 mm	Each	81	1158.95	93874.95
	17.34	Providing and fixing toilet paper holder :				
215	17.34.1	C.P. brass	Each	80	680.8	54464
	17.35	Providing and fixing soil, waste and vent pipes :				
	17.35.1	100 mm dia				
216	17.35.1.2	Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989	Metre	620	1077.4	667988
217	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	25	146.3	3657.5
	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.				
218	17.73.1	450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms	Each	75	573.6	43020
	18.0	WATER SUPPLY				
	18.7S	C.P.V.C. PIPES				

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	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, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge, Concealed work, including cutting chases and making good the wall etc.				
219	18.8.1	15 mm nominal dia Pipes	Metre	750	441.15	330862.5
220	18.8.2	20 mm nominal dia Pipes	Metre	500	513.75	256875
	18.11	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, i/c making good the walls etc. concealed pipe, including painting with anti corrosive bitumastic paint, cutting chases and making good the wall :				
221	18.11.1	15 mm dia nominal bore	Metre	2091	485.2	1014553.2
222	18.11.2	20 mm dia nominal bore	Metre	919	541.1	497270.9
	18.12	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.- External work				
223	18.12.3	25 mm dia nominal bore	Metre	7234	417.95	3023450.3
224	18.12.6	50 mm dia nominal bore	Metre	1762	654.2	1152700.4
225	18.12.8	80 mm dia nominal bore	Metre	703	919.1	646127.3
	18.13	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :				
226	18.13.1	25 to 40 mm nominal bore	Each	74	757.1	56025.4
227	18.13.2	50 to 80 mm nominal bore	Each	34	1513.7	51465.8
228	18.14	Fixing water meter and stop cock in G.I. pipe line including cutting and threading the pipe and making long screws etc. complete (cost of water meter and stop cock to be paid separately).	Each	49	670.15	32837.35
	18.15S	<b>BRASS FITTINGS</b>				
	18.15	Providing and fixing brass bib cock of approved quality :				
229	18.15.1	15 mm nominal bore	Each	126	303.85	38285.1
	18.16	Providing and fixing brass stop cock of approved quality :				
230	18.16.1	15 mm nominal bore	Each	118	303.85	35854.3
	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
231	18.17.1	25 mm nominal bore	Each	112	532.35	59623.2
232	18.17.4	50 mm nominal bore	Each	110	878.25	96607.5
	18.18	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :				
233	18.18.1	15 mm nominal bore	Each	174	348.85	60699.9
234	18.18.2	20 mm nominal bore	Each	174	397.45	69156.3
235	18.18.3	25 mm nominal bore	Each	142	399.15	56679.3
	18.21	Providing and fixing uplasticised PVC connection pipe with brass unions :				
	18.22	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :				
236	18.22.1	100 mm diameter	Each	67	166.35	11145.45
	18.31S	<b>C.I. SLUICE VALVES/ FIRE HYDRANTS &amp; FIXTURES</b>				

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	18.33	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep ( inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size ) , i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :				
237	18.33.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	Each	238	10102.5	2404395
	18.46	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :				
238	18.46.1	15 mm nominal bore	Each	72	262.3	18885.6
239	18.46.2	20 mm nominal bore	Each	48	289.05	13874.4
240	18.46.3	25 mm nominal bore	Each	36	369.35	13296.6
241	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	Litre	73000	9.7	708100
	18.49S	<b>C.P. BRASS FITTINGS</b>				
	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				
242	18.49.1	15 mm nominal bore	Each	110	434.2	47762
	18.51	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.				
243	18.51.1	15 mm nominal bore	Each	12	708.4	8500.8
	18.52	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.				
244	18.52.1	15 mm nominal bore	Each	118	594.75	70180.5
	18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931				
245	18.53.1	15mm nominal bore	Each	172	500.35	86060.2
	18.54S	<b>PTMT FITTINGS</b>				
	18.57	Providing and fixing PTMT, push cock of approved quality and colour.				
246	18.57.1	15 mm nominal bore, 98 mm long, weighing not less than 75 gms	Each	372	96.45	35879.4
	18.59S	<b>AIR VALVE &amp; WATER METER (BULK TYPE)</b>				
247	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	75	96.75	7256.25
	19.0	<b>DRAINAGE</b>				
	19.1S	<b>STONE WARE PIPES AND FITTINGS</b>				

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	19.1	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :				
248	19.1.1	100 mm diameter	Metre	100	375.75	37575
249	19.1.2	150 mm diameter	Metre	884	591.4	522797.6
	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 :				
250	19.2.1	100 mm diameter S.W. pipe	Metre	100	895.5	89550
251	19.2.2	150 mm diameter S.W. pipe	Metre	864	1095.15	946209.6
	19.4	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design:				
	19.4.1	100x100 mm size P type				
252	19.4.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	105	2453.55	257622.75
	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 :				
253	19.6.4	300 mm dia. R.C.C. pipe	Metre	50	902.05	45102.5
	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 :				
	19.7.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :				
254	19.7.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	50	11687.1	584355
	19.31	Extra for depth beyond 45 cm of brick masonry chamber :				
	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.				
255	19.32.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	25	28029.15	700728.75
	21.0	ALUMINIUM WORK				



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	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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
	21.1.1	For fixed portion				
256	21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	1100	433.95	477345
	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)				
257	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	1000	531.8	531800
	21.2	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.				
258	21.2.1	Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side	Sqm	50	965.1	48255
	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):				
259	21.3.2	With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm)	Sqm	50	1325.55	66277.5
260	21.17	Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P. brass/ stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge. (Only weight of grill to be measured for payment).	Kg	250	560.85	140212.5

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261	21.18	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & double acting hydraulic floor spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-in-charge (Door handle, lock and stopper etc.to be paid separately).	Sqm	124	4540.7	563046.8
	22.0	<b>WATER PROOFING</b>				
	22.14	Grading roof for water proofing treatment with				
262	22.14.1	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	cum	650	7510.75	4881987.5
263	22.14.2	Cement mortar 1:3 (1 cement : 3 coarse sand)	cum	176	14275.75	2512532
	23.0	<b>RAIN WATER HARVESTING &amp; TUBEWELLS</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 & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge, upto 90 metre depth below ground level.				
	23.1.1	All types of soil				
264	23.1.1.1	300 mm dia	Metre	2490	592.05	1474204.5
	23.1.2	Rocky strata including Boulders				
265	23.1.2.1	300 mm dia	Metre	1740	1416.3	2464362
	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 & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, beyond 90 metre & upto 150 metre depth below ground level.				
	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.				
266	23.4.3	200 mm nominal size dia	Metre	750	1099.25	824437.5
267	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	324	1302.3	421945.2
268	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	324	1309	424116
269	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	324	1309	424116

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270	23.9	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000 x 450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of Engineer-in-charge.	Each	200	1213.25	242650
	23.14	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts & nuts of required size complete.				
271	23.14.3	200 mm clamp	Each	50	1827	91350
	25.0	<b>STRUCTURAL GLAZING ALUMINIUM COMPOSITE PANEL</b>				
272	25.1	Providing and supplying aluminium extruded tubular and other aluminium sections as per the architectural drawings and approved shop drawings , the aluminium quality as per grade 6063 T5 or T6 as per BS 1474,including super durable powder coating of 60-80 microns conforming to AAMA 2604 of required colour and shade as approved by the Engineer-in-Charge. ( The item includes cost of material such as cleats, sleeves, screws etc. necessary for fabrication of extruded aluminium frame work. Nothing extra shall be paid on this account). The weight of aluminium extruded section shall be taken for purpose of payment.	Kg	250	370.45	92612.5
273	25.8	Design supply & installation of suspended Spider Glazing system designed to withstand the wind pressure as per IS 875 (Part-III). The Suspended System held with Spider Fittings of SS-316 Grade Steel of approved manufacturer with glass panel having 12 mm thick clear toughened glass held together with SS- 316 Grade Stainless steel Spider & bolt assembly with laminated glass fins 21 mm thick. The Glass fins and glass panel assembly shall be connected to Slab/beams by means of SS- 316 Grade stainless steel brackets & Anchor bolts and at the bottom using SS channel of 50x25x2mm using fastener & anchor bolts, non staining weather sealants of approved make, Teflon/ nylon bushes and separators to prevent bi-metallic contacts, all complete to perform as per specification and approved drawings. The complete system to be designed to accommodate thermal expansion & seismic movements etc. The joints between glass panels (6 to 8 mm) and gaps at the perimeter & in U channel of the assembly to be filled with non staining weather sealant, so as to make the entire system fully water proof & dust proof. The rate shall include all design, Engineering and shop drawing including approval from structural designer, labour, T&P, scaffolding, other incidental charges including wastage, enabling temporary services all fitting fixers nut bolts, washer, Buffer plates, fastener, anchors, SS channel laminated glass etc. all complete. For the purpose of payment, actual elevation area of Glazing including thickness of joints and the portion of Glass panel inside the SS channel shall be measured.	Sqm	100	8230.05	823005

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	26.0	<b>NEW TECHNOLOGIES AND MATERIALS</b>				
274	26.10	Providing and fixing factory made Kitchen Cabinet Shutter/Partition 20 mm nominal thickness of approved shade, quality and make, made from rigid foam sheets (Single extruded) having density 600 Kg/cum and laminated on both side by laminate Sheet/PVC foil lamination. The exposed edges shall be sealed with PVC edge beading of same shade and colour. The shutter shall be fire retardant having necessary screw holding capacity. Shutter shall be fixed to frame using approved hinges with necessary stainless steel screws, all complete as per direction of Engineer-in-charge.	Sqm	1050	4767.8	5006190
	26.19	Providing at all heights, levels and locations Aluminium profile industrial troughed sheet of Alloy 31500/31000/40800, conforming to IS 1254, IS 737, IS 2676. The sheet shall be fixed using self drilling/self tapping SS screws of size 5.5x65 mm with EPDM seal complete upto required pitch in horizontal, vertical or curved surfaces i/c cutting to size and shape where required as per specifications, detail drawings and direction of Engineer-in-Charge. The rate shall be inclusive of all screws, seal, ridge, labour, scaffolding, machinery for fixing and approved sealant where required etc. but excluding the cost of purlins, rafters and trusses.				
275	26.19.2	0.91 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm.	Sqm	1254	1247.4	1564239.6
					<b>Total</b>	<b>2487742462.20</b>
<b>Schedule</b>	Schedule C-DSR-2020 Horticulture					
<b>Item- 1</b>	DSR items					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
	2.0	<b>HORTICUTURE AND LANDSCAPING</b>				
1	2.2	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	cum	3000	515.6	1546800
	2.4	Supplying and stacking a t site dump manure from approved source, including carriage upto 5 km lead complete (manure measured in stacks will be reduced by 8% for payment) :				
2	2.4.1	Screened through sieve of I.S. designation 20 mm	cum	250	254.15	63537.5
	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)				
3	2.14.2	Holes 90 cm dia, and 90 cm deep	Each	500	143.1	71550
4	2.14.3	Holes 60 cm dia, and 60 cm deep	Each	500	43.75	21875

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5	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	250	4533.1	113275
	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 :				
6	2.19.1	Common burnt clay F.P.S (non modular) bricks of Class designation 7.5	Metre	500	396.9	198450
	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.				
7	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	500	225.05	112525
8	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	1000	87.5	87500
	2.42	Complete maintenance of trees (Out side garden features), jobs like making of basin at regular interval i/c watering, weeding, pruning & application of fertilizer etc, (excluding the cost of material which shall be supplied by the department and other T & P material/articles shall be provided by the contractor) and as per direction of officer in charge.				
9	2.42.3	Trees for 1200 no (beyond 8 year Slow & beyond 6 Fast growing group)	Per Plant/per Month	1000	15.85	15850

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10	2.53	Providing and watering of irrigation water through water tanker of Horticulture features i.e. lawn, tree, shrubs, hedge/edge, ground cover etc. at the site of work. Water tanker having 5000 lit. capacity with one labour for watering i/c cost of water, filling of tanker, watering at site with all leads and lifts as per direction of officer-in-charge.	Per Trip	500	932.95	466475
	7.0	<b>TREE PLANTS</b>				
11	7.6	Providing and stacking of Bassia latifolia (Mahua) of height 90-105 cm. in big polybag of size 25 cm as per direction of the officer-in-charge.	Each	500	65	32500
12	7.8	Providing and stacking of Bauhinia purpurea (Kachnar) of height 150-165 cm. in big poly bags of size 25 cm as per direction of the officer-in-charge.	Each	500	50	25000
13	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	500	60	30000
14	7.36	Providing and stacking of Ficus religiosa (Peepal) of height 150-165 cm. in big poly bags of size 30 cm as per direction of the officer-in-charge.	Each	500	65	32500
	11.0	<b>MEDICINAL PLANTS</b>				
15	11.12	Providing and Stacking of Giloy well developed in poly bag of size 20cm as per direction of the officer-in-charge.	Each	500	20	10000
					<b>Total</b>	<b>3847837.50</b>
<b>Schedule</b>	Schedule D-NS Items for Civil Works					
<b>Item- 1</b>	Non-Schedule Items for Civil Works					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Conducting EV2 test on top of formation / ground level including cost of equipments, macheneries, vehicles, reaction systems, preparation of surface and submission of test results in between Ajmer-Bijaynagar doubling project. Rates shall be inclusive all central/state govt. taxes, man power, tools and plants, leading materials and all other consumable items.	Each	50.00	14584.00	729200.00
2	2	Fabricating, supplying and installing of stainless steel water booth made of stainless steel pipe of 150mm dia & 3.15mm thick and stainless steel sheet for basin, minimum thickness of 3mmconfirming to grade SSgrade-304 or superior including cost of taps &G.I pipe above the PF surface but excluding grating & other Items below platform surface as per drawing no. Misc-507/07ANVR including stainless steel baseplate of300x300x12mm, the approximate weight of stainless steel sheet(covered with protective coating) to be used in water booth should be water booth of 116 Kg the finish surface shall be free from any dent/undulation. The Item include all accessories equipment, tool & plant, preparation of fabrication drawing all labour & material as a complete job, the handrailing and other horizontal members shall be bent to the correct radius profiles, shapes required by the Engineer- in-charge using the appropriate means without losing the profile of the pipe, nothing extra will be paid whatsoever the case may be.	Each	6.00	58982.87	353897.22

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3	3	Supplying and fixing Galvanised Steel / Galvalume self supporting sheet in roofing made from Mild steel having thickness minimum 0.80 BMT (Base Metal Thickness) having coating of Zinc / Aluminium + Zinc including cutting to size and shape including fixing. The rates shall include all cost of materials, taxes, labour, tools, plants, fixture etc. complete and fixing as per direction of Engineer In Charge at site Note:- (1) Contractor will have to submit the design of the roofing duly proof checked from Govt. Engg College / IIT / NIT for approval of the Railway. Roofing shall be provided only after getting it approved from the Railway. (2) In design, CBE, NWR drawing No. CBE-1017/RUB/2018/ Roof Covering/R1 and CBE-1017/RUB/ 2018/ Roof Covering/Sheet No. 1 may be refer for guidance purpose.	Sqm	11812.00	1791.42	21160253.04
4	4	Construction of RCC Chhatri on face, face wall/corner over roof, pillars as per approved plan with Contractors' own material and labour complete as per specification, cement concrete base 90x90x13 cm. with four pillars 13.00x13.00x110cm with 20 cm wide projected standard chhajja around the pillars with Gumti at 50 cm height from top of Dome. The total height of chhatri upto Gumti is 2.50m.	Each	70.00	16534.64	1157424.80
5	5	Manufacturing, supplying & fixing of pr-fabricated RCC coping stone of size 530mmx1125mmx100mm thick as per top face designed and approved by site Engineer with M-30 grade RCC with 8 mm dia. tor steel at 150mm c/c both ways and manufactured by vibro compaction process using jointless FRP/GRP steel moulds of required size, shape & design. The item includes cost of cement, reinforcement, transportation etc. (Note: Under layer of cement mortar to be laid as per site conditions & should be paid for separately)	Each	6600.00	1102.13	7274058.00
6	6	Casting, supplying, transporting and launching pre-cast reinforced concrete in M25/M-30/M-35/M-40 design mix in ballast retainers etc. as per Railway drawings & Specifications, with Contractor's own materials such as sand, water, 6mm to 20mm well graded machine crushed stone aggregate etc. including machine mixing of all gradients, placing, mechanical vibrating, curing etc. and providing, erecting and dismantling of staging, shuttering, centering, formwork and providing AC/GI pipes of approved size for weep holes / drain pipes at spacing as decided by the Engineer in charge and handling, transporting to bridge sites including loading & unloading with contractor's own labour and equipments and placing in position including launching all lead, lift, royalties, taxes etc. complete as per instructions of Engineer in charge. Note - (i) The payment of Stainless Steel Reinforcement and Cement will be made separately in relevant item. (ii) The rates also includes fixing of Ballast Retainers etc., if required with epoxy resin or similar material and royalties, Taxes etc. complete as per instructions of Engineer in charge	cum	189.00	5696.77	1076689.53



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7	7	Providing and fixing along the railway track Boundary pillars in M-25 grade RCC and M-10 grade base concrete as per Railway drawings with contractor's own cement, steel, aggregate, water, tools and plants, equipments, consumables, laborers etc., inclusive of all lift & lead, taxes, royalties etc. complete as per special conditions of contract and as directed by Engineer-in-charge. Note:- Deduction will be made @ Rs. 171.04 Each quantity, if painting and lettering is not done. For hectometer post retroreflective paint and lettering shall be paid under relevant USSOR/NS item.	Each	1000.00	1479.00	1479000.00
8	8	Extra for mechanical compaction of earth/blanketing material filled in embankment with contractor rollers of suitable capacity, type and size to achieve specified density as per specification, testing as per IS codes incl. cost of water, T&P consumable material and all labour as a complete job. The work is to be executed as per Latest edition of Guidelines for Earthwork in Railway Projects issued by RDSO, Lucknow	cum	50000.00	13.65	682500.00
9	9	Providing dry stone pitching of 150 mm to 200 mm thickness with contractor's own stone of minimum size 150 mm in all directions and minimum surface area 300 sqcm closely packed, firmly bedded and filling all interstices with small stone driven tight with rammer/hammer. Rates are inclusive of cost for labour, tools & plants and all royalties, taxes etc as payable.	cum	7405.00	975.87	7226317.35
10	10	Supplying, erecting and fixing precast concrete reinforced bench with back rest. Bench shall consist of 2 nos. L shaped base support in natural cement colour of thickness 100 mm, back height 1000 mm, front height 450 mm, base width 620 mm and 5 nos. reinforced concrete planks in red colour and size of 1500 x 100 x 50mm and 1 no. reinforced concrete plank of 150 x 200 x 50mm; manufactured by using M-30 grade concrete & reinforced suitably; all parts to be joined with galvanised nuts and bolts of suitable size. All bolts to be sealed after assembly. Complete job to be done as per directions of Engineer Incharge	Each	70.00	10029.34	702053.80
11	11	Casting, transporting and launching of precast reinforced concrete slabs in M-25 design mix for RCC boxes including launching during traffic block or without traffic block etc. as per approved drawings & design with contractor's own materials such as sand, water, 6mm to20mm well graded machine crushed stone aggregate, admixtures etc. including machine mixing of all gradients, placing, mechanical vibrating, curing etc. and providing shuttering, centering, formwork and handling, transporting to bridge sites including loading & unloading and launching including supplying , laying and levelling of required layer of sand underneath RCC slab as per approved drawing with contractor's own labour and equipments, all lead, lift, royalties, taxes etc. complete in all respect except cost of reinforcement & cement which will be paid separately under relevant USSOR items.	cum	273.00	4322.00	1179906.00

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12	12	Casting and transporting precast reinforced cement concrete boxes and U-Type/L Type retaining wall segments in M30/35 design mix near LHS site with machine batched, machine mixed and machine vibrated design mix concrete, including the cost of centering, shuttering, finishing, admixture, if required, as per IS:9103 to retard setting of concrete/improve workability without impairing strength and durability as per direction of Engineer-in-charge. Only machine mixed and automatic weigh batched concrete/concrete produced by Fiori shall be used during entire work. The concrete shall be placed with the help of mechanical means only. Rates are inclusive of all the materials, labour, transporting to bridge sites including loading & unloading with contractor's own labour and equipments. curing, machinery, tools, plants, taxes etc. complete in all respect except cost of reinforcement & cement which will be paid separately under relevant USSOR items.	cum	1209.00	5602.00	6772818.00
13	13	Removing of existing any type of track for insertion of RCC boxes, laying, linking & lifting of any type of track on newly laid RCC box on either side of LHS including cutting of rails, drilling of holes, subsequent through packing to make track fit for 75Kmph & de-stressing of LWR/CWR of any type of track and picking up of stone ballast (new or retrieved) including loading & leading of ballast from stacks Various activities involved in this work along with their tentative scope are:(i) Removing of existing track @ 45'46@ 0mtr (ii) Removing ballast from track & keeping it away from site of work.(iii) After insertion of RCC boxes, putting back existing ballast at(ii) above and supplying & putting in track additional quantity of ballast so as to provide minimum ballast cushion of 300mm to 350mm in compacted condition. (iv) Re-laying & linking of track - 39.0mtr (v) Lifting of track in stages of 50/75mm for required length to ensure ballast cushion of 300mm to 350mm as per site conditions minimum ballast supply 50.0 cum on each LHS. (vi) Cutting of any type of rails - 4 to 8 nos.(vii) Drilling of 31.75mm/26.5mm or similar dia holes in rails of any section- 16 nos (viii) Subsequent through packings to make track fit for 75Kmph-50.0mtr either side of LHS (ix) Local de-stressing of LWR/CWR 100.0m on either side of LHS. (x) AT welding of rail joints on any type of rail on single rail/SWP/LWR with Railway prefabricated moulds and railway portions as per IRS specifications T-19-2012 ( amended upto date) • Qty. and scope of work shown above at S.No. (i) to (x) are tentative only. The scope of these items may vary as per site conditions & as per direction of Engineer-in-charge for completing the work of LHS safely and successfully. The quoted rates are for complete job. Nothing extra shall be paid on any account. Note Unit Job is taken for Per Job.	Job	5.00	75499.00	377495.00

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14	14	Insertion and taking out of temporary service girder of required length as per need of site below track in short duration traffic block as per Railway approved drawing to provide temporary arrangement for casting of box/excavation of hard/rocky strata to make space for launching of RCC Box/for launching of RCC components in subsequent blocks, including making and laying sleeper cribs, bearing plate, dismantling & laying of track, cutting/filling of earth etc. as per standard drg. to make track fit for 20 Kmph speed, with contractors own labour, crane, tools and plants etc. Nothing extra will be paid to the contractor except the accepted rate, whatsoever.	Job	5.00	99323.00	496615.00
15	15	Supplying & shrouding of pea gravel 2mm to 4mm size for tube well assembly according to Rly. specifications based on ISI specification of tube well.	cum	100.00	2602.00	260200.00
16	16	Supply, installation, testing and commissioning of lifting barrier (for level crossing gate) Drawing no. SA-7974/M (Adv.) Alt-3 with Gate lamps, levers with lever locks, boom locals arrangement and winch to Drg. No. SA-8132DC (Adv.) complete 10 metres to spec. no. IRS-S-1078. Both side of level crossing (1 set =02 Barriers.). (Use this NS Item only when a Temporary LC is required to be commissioned before construction of LHS)	Set	4.00	273343.00	1093372.00
17	17	Deduction from DSR item no. 7.1.1 and 7.2.1 for work done with railway stone etc.	cum	1500.00	-740.00	-1110000.00
18	18	Casting, transporting and launching of precast RCC duct & connecting chamber for cable laying in M-25 design mix (with minimum cement content of 330Kg/Cum) during traffic block or without traffic block etc. as per approved drawing with contractors own materials such as cement, sand, water, 6 to 20mm well graded machine crushed stone aggregate, admixture etc. including machine mixing of all gradients, placing, mechanical vibrating, curing etc. and handling, transporting to work sites including centering & shuttering, loading, unloading & launching as per approved drawing with contractor's own labour & equipment's, all lead, lift, royalties, taxes etc. complete in all respect except cost of reinforcement which will be paid separately under relevant DSR-2021 items. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 1.10 times of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.	cum	500.00	5941.00	2970500.00
19	19	Painting of Murals, pictures, curving of different size & shape duly coloured on smooth wall surface/plywood surface with paint & oil painting with different shapes on the wall to give ethnic-etho local art/architecture to station building as a complete job as directed by Engineer-in-charge or his representative including all labour & material such as paints, brushes, tool & plant etc. Nothing shall be paid extra on any account.	Sqm	50.00	1120.86	56043.00
20	20	Deduct for using steel conforming to Quality "A" instead of Quality "B0" of Grade designation E250 as per IS:2062 in item no. 041011.	MT	563.00	-3910.24	-2201465.12

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21	21	Extra to be paid for launching of girder of FOB under traffic or power block. Note:- 1. Payment under this item to be paid for only members to be launched under traffic or power block. 2. 100% test check by XEN/AXEN/Const concerned is compulsory.	MT	563.00	239.36	134759.68
					<b>Total</b>	<b>51871637.30</b>
<b>Item- 22</b>	Placement of precast reinforced cement concrete components ( RCC box/U-Type/L Type segments of retaining walls) with the help of suitable capacity road crane at desired location during traffic block of short duration with all contractor's labour, tools ,material, cranes, machinery, preparation of surface including cost of filling of joints by epoxy mortar, cutting of lifting hooks by gas cutting, all lead, lift, taxes etc complete in all respect.					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	RCC box/U/L-type segments requiring traffic block.	MT	2963.00	3851.00	11410513.00
2	2	RCC box/U/L-type segments not requiring traffic block.	MT	741.00	1852.00	1372332.00
					<b>Total</b>	<b>12782845.00</b>
<b>Schedule</b>	Schedule E-Schedule - E For Electrical Items					
<b>Item- 1</b>	Schedule-D for Electrical Items					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Supply of material and wiring of LP/FP/Ex.Fan point with 1.5sqmm PVC single core multi-stranded copper wire insulated concealed in stone/brick masonry wall in 19/20 mm PVC conduit with 1.5sqmm PVC wire insulated copper for earth wire 1-way/2-way switch 5/6A as required and good quality ceiling rose including connection (with modular switch & ceiling rose). As per specification at Annexure-A.	Each	1902.00	352.00	669504.00
2	2	Supply and fixing 5/6A plug, modular type 5-pin, 230V including modular switch and with modular board and wiring with 2.5sqmm PVC CU cable. As per specification at Annexure-A.	Each	686.00	206.00	141316.00
3	3	Supply and fixing 15/16A plug, modular 5-pin 230V including modular switch and with modular board and wiring with 4.0 sqmm PVC CU cable As per specification at Annexure-A.	Each	246.00	258.00	63468.00
4	4	Wiring of sub-main with 2 x 2.5sqmm PVC insulated, single core, multi-stranded copper wire in PVC conduit concealed and 2.5sqmm PVC insulated, single core, multi-stranded copper wire for earth wire. As per specification at Annexure-A.	Metre	6070.00	56.00	339920.00
5	5	Wiring of sub-main with 2 x 4.0sqmm PVC insulated, single core, multi-stranded copper wire in PVC conduit concealed and 4.0sqmm PVC insulated, single core, multi-stranded copper wire for earth wire. As per specification at Annexure-A.	Metre	2740.00	96.00	263040.00
6	6	Wiring of sub-main with 2 x 6.0sqmm PVC insulated, single core, multi-stranded copper wire in PVC conduit concealed and 6.0sqmm PVC insulated, single core, multi-stranded copper wire for earth wire. As per specification at Annexure-A.	Metre	870.00	108.00	93960.00
7	7	Supply and fixing 2 module modular switch board plate for fixing of modular switches - plug with sheet metal box of good quality concealed fixing of MS/PVC as per site engineer. As per specification at Annexure-B.	Each	157.00	110.00	17270.00

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8	8	Supply and fixing 4 module modular switch board plate for fixing of modular switches -plug with sheet metal box of good quality concealed fixing of MS/PVC as per site engineer. As per specification at Annexure-B.	Each	241.00	173.00	41693.00
9	9	Supply and fixing 8 module modular switch board plate for fixing of modular switches -plug with sheet metal box of good quality concealed fixing of MS/PVC as per site engineer. As per specification at Annexure-B.	Each	194.00	280.00	54320.00
10	10	Supply and fixing 12 module modular switch board plate for fixing of modular switches -plug with sheet metal box of good quality concealed fixing of MS/PVC as per site engineer. As per specification at Annexure-B.	Each	357.00	321.00	114597.00
11	11	Fixing of ceiling fan/TL fitting and connection. As per specification at Annexure-C.	Each	375.00	67.00	25125.00
12	12	Supply and fixing of ceiling fan regulator electronic type 5-step. As per specification at Annexure-D.	Each	375.00	374.00	140250.00
13	13	Supply and fabricate of down rod suitable size with hole "A" Class GI Pipe for hanging fan. As per specification at Annexure-E.	RM	120.00	108.00	12960.00
14	14	Supply and fixing of Fan bracket/Hook by MS (Flat & Rod) for hanging the ceiling fan in shelter/building etc. As per specification at Annexure-F.	Each	375.00	55.00	20625.00
15	15	Dismantling of existing HT/LT Rail/PCC Poles/overhead span with fittings by digging the foundation and transportation upto the required site. As per specification at Annexure-G.	Each	100.00	548.00	54800.00
16	16	Supply and fixing of stay complete with stay wire, stay insulator, stay rod, anchor plate, straining screw including clamps nut bolts washers pipe piece 50mm dia, 1.5m long foundation and painting. . As per specification at Annexure-H.	Each	36.00	712.00	25632.00
17	17	Supply & laying of HDPE pipe 50 mm dia wall thickness 3 mm under the road/PF/in ground or as per site requirement. The work involves digging of earth & laying of HDPE pipe. (As per specification)	Metre	2000.00	98.00	196000.00
18	18	Laying, testing, commissioning & transportation of LT cable in Air/Pole/Pipe/wall/cable tray etc. with complete lugs/glands and transportation of cable etc. Note- Cable will be supplied by Rly. from main depot. As per specification.	Metre	3000.00	23.00	69000.00
19	19	Digging & filling of trench size 0.4m wide x 0.8m deep. Trench work may be on kuchha/pucca land and all type of soil as per site requirement and without protective layer of bricks. Surface of trench shall be made good in all respect and upto satisfaction of site engineer. As per specification	Metre	2000.00	46.00	92000.00
					<b>Total</b>	<b>2435480.00</b>
<b>Schedule</b>	Schedule A1-EARTH WORK					
<b>Item- 1</b>	EARTH WORK					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>

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1	011010	Preparation of foundation for Embankment by clearing, grubbing, stripping top soil (average 150 mm) and stacking beyond foundation area, thereafter ploughing and pulverizing 150 - 200 mm of top of soil with tractor trolley, mixing water to achieve OMC with water sprinkler or left for natural drying, as required, and compaction with vibratory roller of suitable capacity to achieve 98% MDD for laying first layer of soil for embankment construction.	100 Sqm	6443.00	488.56	31477.92
2	011020	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) Benchng 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.	Kilometre	40.00	113367.92	4534716.80
		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, Benchng including additional earthwork on account of this, wherever required, shall be paid extra under relevant schedule item for benchng. 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 benchng and (ii) final profile of the bank worked out with final levels as per prevailing guidelines.				
3	011031	Using Soil Class SQ1	cum	72348.00	215.53	15593164.44
4	011032	Using Soil Class SQ2	cum	578782.00	227.72	131800237.04
5	011033	Using Soil Class SQ3	cum	72348.00	227.72	16475086.56

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		Earthwork in cutting in formation, trolley refuges, side drains, level crossing approaches, platforms, catch water drains, diversion of nallah & finishing to required dimension and slopes to obtain a neat appearance to standard profile inclusive of all labour, materials, plant & machinery, leading all cut spoils either to make spoil dumps or for filling in embankment with leads within 2 km on either side of edge of the cutting(s) including all lifts, ascent, descent, loading, unloading, bailing & pumping out water, if required, clearance of site and all other works incidental thereto for completing the work as per RDSO Specification No. RDSO/2020/GE: IRS-0004 with latest updated correction slips and to the satisfaction of the Engineer-in-Charge. Note: (i) All usable earth arising from cut spoils shall be led into bank formation and Unusable spoils shall be dumped / stacked away from toe of embankment. (ii) All hard rock /and boulders not fit for filling will be stacked by the contractor and will be property of the Railways. (iii)Cut trees shall be property of Railways and to be deposited in the railway godown unless specified otherwise in the Conditions of Contract.				
6	012011	In all conditions and classifications of soil except rock	cum	72086.00	107.39	7741315.54
7	012012	Soft rock not requiring blasting	cum	72086.00	255.52	18419414.72
8	012014	In hard rock with hammer / chisel / pavement breaker etc. where blasting is not permitted due to special circumstances and if specifically ordered in writing including drilling and all incidental works thereto.	cum	216259.00	987.64	213586038.76
9	012015	Extra for leading of Cut spoil every one km beyond original lead of 2 km over item nos. 012011 to 012014	cum	50000.00	5.42	271000.00
10	012030	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.	cum	124778.00	1728.03	215620127.34
		Turfing / planting, including all lead & lift and watering as required until properly rooted with. Note: Initially payment of only 40% will be made. Balance 60% will be paid after 3 months of maintenance period, only if the turfing is properly rooted on entire turfed area.				
11	013021	Turfing with sods, 10cm thick and 20cm square closely laid.	100 Sqm	2300.00	6513.75	149816.25
12	013022	Turfing with planted doob grass.	100 Sqm	200.00	6709.76	13419.52
13	013023	Planting Sarkanda / sarpat or any other suitable species approved by the engineer.	100 Sqm	200.00	7481.75	14963.50



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		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.				
14	013041	With provision of one 50mm wide retro-reflective tape in horizontal direction, duly secured/tight with vertical posts.	Metre	52560.00	264.41	13897389.60
15	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	2500.00	1056.13	2640325.00
		Supplying, laying Non-woven Needle Punched and Mechanically or Thermally bonded type Geotextile for use as Separator/Filtration for Railway formation as per RDSO Specification No. RDSO/2018/GE:IRS-0004 - Part I made of Polypropylene / Polyethylene / Polyamide or combination there of having apparent opening size of less than or equal to 85 microns and elongation at failure more than 50% in both directions including transportation labour, lead & lift complete as directed by Engineer in-charge.				
16	013091	On top of subgrade or prepared subgrade before laying blanketing layer with minimum strengths in Grab test, Trapezoidal Tear test and Puncture test of 700N, 250 N and 1800 N respectively.	Sqm	673.00	158.60	106737.80
17	013100	Supplying & laying of drainage composite for use behind abutments, wing walls, return walls and Retaining walls Geocomposite drain (Vertical) as per RDSO Specification No. RDSO/2018/GE:IRS-0006 latest version with all material, labour, equipment, tools and plants, lead, lift etc. complete in all respects as per the direction of Engineer-in-Charge.	Sqm	250.00	716.39	179097.50
					<b>Total</b>	<b>641074328.29</b>
<b>Schedule</b>	Schedule A2-BRIDGE WORK					
<b>Item- 1</b>	BRIDGE WORK					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
		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.				
1	021063	Plate size 60cm x 60cm	Each	120.00	29920.30	3590436.00

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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.				
2	022011	All kinds of soils	cum	68877.00	210.90	14526159.30
3	022012	Soft rock (not requiring blasting)	cum	7901.00	439.13	3469566.13
4	022014	Hard rock (blasting prohibited )	cum	5284.00	1218.51	6438606.84
		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 :				
5	022033	1:2:4 (1 Cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 40 mm nominal size)	cum	3047.00	2908.74	8862930.78
6	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	12526.00	2919.59	36570784.34

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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.				
7	022051	Abutment & Pier	cum	2280.00	2999.09	6837925.20
8	022052	Wing wall and Return wall	cum	10796.00	2999.09	32378175.64
9	022053	Abutment cap, Pier Cap, Inspection Platform & Pedestal over Pier cap, Fender wall, Diaphragm wall etc.	cum	325.00	3038.85	987626.25
10	022054	Approach slab at formation level, Dirt wall/ ballast wall at formation level	cum	699.00	2959.34	2068578.66
11	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	4427.00	262.24	1160936.48
		Boring, providing and installation of bored cast in-situ Reinforced Cement Concrete piles 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, by percussion drilling using Direct Mud Circulation (DMC) or Bailor and Chisel technique by tripod and mechanical Winch machine, complete in all respect as per approved drawing, specification and direction of the Engineer in charge. Note: 1. Payment for only cement, reinforcement and permanent casing pipe (if any ) 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.				

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12	022085	600mm diameter	Metre	500.00	1529.01	764505.00
13	024010	Providing and casting machine batched, machine mixed and machine vibrated Cement Concrete of specified grade as per approved Design Mix, mixed in Mobile Concrete Batching/Mixing Plant at site or RMC from approved plants, (Cast in-Situ/Pre-cast) in bottom/top slab, side walls, toe wall and sumps haunch filling head walls, thrust bed or any other component using 20mm graded crushed stone aggregate and coarse sand of approved quality of RCC box of any size including finishing, Plasticiser in approved proportions (as per IS:9103), to modify workability without impairing strength and durability, complete as per drawings and technical specifications as directed by Engineer in charge. Note: 1. Payment for cement, reinforcement and shuttering shall be made extra under relevant item. 2. Plasticiser shall invariably be used in approved proportion to increase workability with minimum possible quantity of cement for all grade of Design Mix Concrete unless it is specifically approved citing reasons at the stage of Mix Design and in that case deduction shall be made as per relevant item.	cum	3178.00	3211.55	10206305.90
14	024020	Providing and laying in position machine batched, machine mixed and machine vibrated Design Mix Cement Concrete, mixed in Mobile Concrete Batching/Mixing Plant at site or RMC from approved plants, of specified grade (cast in-situ) using 20mm graded crushed stone aggregate and coarse sand of approved quality in Drop and curtain wall and alike structures below bed level, complete in all respect as per drawings and technical specifications to the satisfaction of Engineer-in-Charge. Note: Payment for cement, reinforcement and shuttering shall be made extra.	cum	158.00	2919.59	461295.22
15	025020	Providing and applying two coats of coal tar or bitumen conforming 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	21944.00	178.84	3924464.96
Centering and shuttering including strutting, propping etc. and removal of form for :						
16	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	71412.00	715.17	51071720.04
17	025032	All types of bridge super-structures, e.g. slabs, I-girders, T-girders, Box girders etc. up to 5m above ground level.	Sqm	3468.00	927.65	3217090.20
18	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	3305.00	115.51	381760.55
Supply and using Cement at Worksite						
19	025071	Ordinary Portland Cement 43 grade approved brands/makes	MT	11893.00	7801.51	92783358.43
20	025072	Ordinary Portland Cement 53 grade of approved brands/makes	MT	210.00	7968.76	1673439.60

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21	025073	Pozzolana Portland Cement approved brands/makes	MT	2887.00	7294.44	21059048.28
		Supply of steel reinforcement of approved brands/makes for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
22	025082	Thermo-Mechanically Treated bars of grade Fe-500D or more of approved brands/makes.	Kg	3575762.00	107.01	382642291.62
23	031020	Providing and launching 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 Precast Prestressed (Post-tensioned) Concrete Girder/Box Girders/Slabs in contractor's casting yard in the vicinity of worksite, including finishing, using Plasticiser in approved proportions (as per IS:9103), to modify workability without impairing strength and durability, complete as per drawings, specifications and direction of the Engineer. Note: 1. Payment for Shuttering, Cement, Reinforcement, HTS cables, Sheathing, Anchorage Cones, stressing of cables, grouting of the ducts and launching of girder/slab in position shall be made extra under relevant items. However, deduction shall be made in case of slab as per relevant item. 2. For pre-cast item, loading in transport vehicle in casting yard is included and shall not be paid extra. 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 at the stage of Mix Design and in that case deduction shall be made as per relevant item.	cum	404.00	2919.59	1179514.36

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24	031030	Providing and launching 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 Precast Prestressed (Pre-tensioned) concrete girder/slab in contractor's casting yard, 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. Note: 1. Payment for Shuttering, Cement, Reinforcement, HTS cables including stressing and launching of girder/slab in position shall be made extra under relevant items. However, deduction shall be made in case of slab as per relevant item. 2. For pre-cast item, loading in transport vehicle in casting yard is included and shall not be paid extra. 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.	cum	52.00	2919.59	151818.68
25	031050	Providing, fabricating & fixing in position to exact design profiles, H.T.S. cables of all classification made from Low Relaxation strands conforming to IS:14268- latest version in Pretensioned Prestressed Concrete girders/slabs etc. including supplying, cutting, making into cables with necessary spacers, colour coding, protecting with water soluble oil at all time, placing, bending, routing, fixing, stressing including all lead and lift with contractor's own materials, labour, equipments etc. complete as per drawings & specifications. Payment shall be made in terms of weight of HTS cables as per drawing.	MT	24.00	131187.93	3148510.32
		Loading, transportation of Precast RCC Girders / Slabs / Ballast retainers / Steel Girders etc. from Casting Yard to Site of Work, unloading and stacking at site of work at prescribed location as directed by Engineer-in-Charge up to 60 kms.				
26	031163	Above 10 km up to 15 km	MT	200.00	180.67	36134.00
27	031165	Above 20 km up to 25 km	MT	200.00	235.62	47124.00
		Loading, transportation of Precast RCC Girders / Slabs / Ballast retainers / Steel Girders etc. from Casting Yard to Site of Work, unloading and stacking at site of work at prescribed location as directed by Engineer-in-Charge above 60 kms.				
28	031175	Above 200 km	MT-Km	200.00	5.00	1000.00

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29	031180	Providing Flood Level Gauges on abutments and piers, made by 20mm thick 1:4 cement plaster for a width of not less than 300mm, duly engraving markings & figures in metres, divided into 10 parts commencing from under-side of girders towards bed, painting markings & figures with black enamel paint in three coats on white background including painting HFL Mark in white by side of gauge with year of occurrence with all Contractor's materials, labour, tools, scaffolding and supports, lead & lifts, curing etc. complete as per approved drawing and as directed by the Engineer in- charge excluding cost of cement which shall be paid extra.	Sqm	232.00	589.15	136682.80
		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.				
30	031191	50mm dia. Drainage Spouts	Metre	267.00	605.56	161684.52
		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 QAP 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%				
31	041011	Plate Girder/Semi Through Girder/Composite Girder (Steel Work)	MT	563.00	138069.16	77732937.08
32	041013	Extra for using steel conforming to Grade Designation E350 instead of Grade Designation E250 of Quality "B0" as per IS: 2062	MT	532.00	4722.92	2512593.44
33	041020	Supplying and fixing HSFG bolts of any dia and any length with suitable nuts including DTI washers conforming to IRS-B1-2001 for bridges and steel structures with contractors labour, tools and plants and lead and lift etc., complete.	Kg	3500.00	180.45	631575.00



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		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.				
34	041041	On new girder during fabrication	Sqm	7000.00	775.16	5426120.00
		Launching in position, by any approved method, pre-fabricated Steel Girders, precast PSC girders/slabs, casted at casting bed developed at site, to correct alignment and level over the bed block / pedestal with all required arrangements, complete in all respect.				
35	041321	PSC girders / slabs	MT	1760.00	1661.73	2924644.80
36	041370	Supplying fabricating and erecting welded and/or bolted and/or riveted steel work in built up sections, trusses and framed work, staging, racks, Height Gauge etc. for Steel Structures other than bridge girders, using RSJ, tees, angles and channels/flats, plates, gussets, round or square bars, cleats, bolts etc., with contractors own steel including cutting, bending, straightening, drilling, riveting, hoisting, fixing, erecting, welding, bolting etc., with Providing stiffeners wherever required as per approved drawing including applying a priming coat of a approved steel primer with all contractor's materials, labour, tools & plants, lead & lift including crossing of tracks if required etc., complete as per specification and as directed by Engineer-in-charge. Note: The payment shall be made on the theoretical weight of main components and gusset plates only.	MT	50.00	129631.69	6481584.50
37	051030	Supplying of stone boulders weighing not less than 35 kg each at specified bridge locations.	cum	4231.00	1202.81	5089089.11
38	052010	Providing and laying flooring with rubble stone, laid over 15cm thick CC 1:2:4 and the voids filled with CC 1:2:4 complete with the joints pointed with 1:2 Cement Sand mortar as per drawing and Technical specifications. Payment for cement to be done separately. Voids in the rubble stone to be taken as 35% of the gross volume of the stone layer. Note: Base concrete shall be paid extra under relevant item.	cum	281.00	2887.37	811350.97
39	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	562.00	2340.79	1315523.98

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40	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	3613.00	2242.55	8102333.15
41	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	100.00	389.11	38911.00
42	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	9114.00	2577.00	23486778.00
43	052200	Painting the HFL mark and Danger level mark, year of HFL on bridge abutments and piers with ready mixed paint as per standard in two coats over one coat of primer with all materials, labour, tools, scaffolding, all lead and lift etc. including writing complete.	Each	200.00	303.85	60770.00
44	052210	Providing cast in situ bridge number plaques as per Railway drawing in cement concrete 1:2:4 mix using 20mm hard stone aggregate embedded in 30mm notch in Bridge parapet coping duly engraving the letter and figures and an arrow indicating the direction of flow and finishing the top exposed surface with cement mortar 1:3, painting letters and figures with two coats of black enamel paint on two coats of white background with all labour, tools, cement, paint etc. with all leads and lifts.	Each	99.00	869.26	86056.74
45	052220	Providing cast in-situ plaques for bridge foundations details of size 45cmx45cmx5cm in cement concrete 1:2:4 mix using 20mm hard stone aggregate embedded in 30mm deep notch over abutment & piers, engraving the letters & figures with CM 1:3 and finished smooth including painting letters and figures with 2 coats of black enamel and plaque with white enamel with all labour, tools, cement, paint, curing etc. as a complete job.	Each	14.00	1308.64	18320.96
46	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	481.00	2388.58	1148906.98
47	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	4208.00	411.68	1732349.44

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		Painting 2 coats to various P.Way Reference Post, Structures etc. with enamel paint of approved make with 2 coats of different colours & letters, as directed by Engineer in-charge.				
48	137082	Hectometre Post	Each	480.00	109.04	52339.20
		Painting 2 coats to Bridge Reference / Boards, Structures etc. along track with enamel paint of approved make with different colours & letters, as directed by Engineer in-charge.				
49	137101	Bridge Board	Each	80.00	168.98	13518.40
50	137104	HFL, FSL & DL on Bridge Pier / Abutment	Each	80.00	729.67	58373.60
		Loading, leading and unloading of all types of P.Way fittings and all other miscellaneous material except Rails, sleepers, switches, crossings, SEJs and Glued Joints by road vehicles for different leads. Note: Lead shall be the shortest motorable road length between the points of loading and unloading.				
51	172041	Lead up to 5 Km	MT	50.00	182.79	9139.50
52	172042	Lead beyond 5 Km and up to 10 km	MT	50.00	226.82	11341.00
53	172043	Lead beyond 10 Km and up to 20 km	MT	50.00	286.21	14310.50
54	172044	Lead beyond 20 Km and up to 30 km	MT	50.00	357.88	17894.00
55	172045	Lead beyond 30 Km and up to 50 km	MT	50.00	456.55	22827.50
56	172047	Lead beyond 100 Km and up to 150 Km	MT	50.00	990.60	49530.00
57	172048	Extra for every Km per MT beyond 150 Km over item no. 172047	MT-Km	50.00	3.29	164.50
58	185010	Dismantling of existing rail fencing, fixed adjoining running lines of track, duly excavating and levelling the foundation by hand compaction, removing connections and carting the released material up to a lead of 250m by suitable means and stacking the same, as directed by engineer in-charge. Note: The released materials shall be handed over duly stacking the same in measurable fashion.	MT	50.00	1436.50	71825.00
59	186210	Providing Rail Barricading with rails supplied by Railways with verticals provided at every 1.5m interval, height of barricade being up to 1.5m above ground / termination level and one or more row of horizontal rail, duly cutting rails and drilling holes as required, assembling necessary accessories to required length, including earthwork excavation for foundation, fixing posts in cement concrete 1:3:6 base of size 0.45m x 0.45m x 0.60m and one coat of red oxide painting of steel work. Note: 1. Excavation and concrete work will be paid separately. 2. Rail shall be made available within 250 metres	MT	200.00	1686.87	337374.00
60	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	25.00	3607.28	90182.00

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61	211060	Supply and fixing in position pre-cast cement concrete Fouling Mark as per approved drawing at station yard, duly painting the top surface and slopes with white enamel paint in two coats and inscribed letters with black of Fouling Mark, complete in all respects with all labour, materials including cement, tools and plants etc.	Each	100.00	474.79	47479.00
		Hiring of machinery for minor miscellaneous works for short duration including operator/driver, fuel, lubricants and consumable. The contractor shall arrange all statutory permits as required by rules and regulations prevailing in the area of work. Payment shall be made for actual working hours at site.				
62	211201	JCB Backhoe Loaders 3DX Plus or similar with minimum 1.10 cum bucket capacity	Hour	1800.00	864.02	1555236.00
63	211202	Hydra or similar tyre mounted Pick-n-Carry crane of 12T capacity for misc. works of handling of material	Hour	1800.00	964.49	1736082.00
64	211230	Supply, filling and stacking of sand bags layer by layer filled with Railway Sand/railway quarry dust in Contractor's empty polythene cement bags of 50 kg bags with all contractors labour, tools, plants, lead, lift etc., including stitching the same with machine using polythene thread complete as directed by Engineer-in charge at site.	Each	1000.00	13.24	13240.00
65	211260	Manufacture and supply of Precast Kilometer Posts of size 1.15 x 0.50 x 0.075 m in RCC 1:2:4 mix, engraving letters and leading to work spot, fixing in position with CC 1:3:6 concrete duly making pits of size as required, painting the post, writing the letters on both sides of the post with 2 coats of enamel paint of approved quality to the Railways drawings/IRPWM with contractor's materials, cement, steel, labour, tools, plant, with all lead and lifts etc., complete as per specifications and as directed by the Engineer-in-charge. Note: Excavation, Concrete and steel work will be paid under relevant items.	Each	60.00	417.44	25046.40
66	211270	Manufacture and supply of Precast gradient Posts of size 1.65 x 0.60 x 0.075 m in RCC 1:2:4 mix, engraving letters and leading to work spot, fixing in position with CC 1:3:6 concrete duly making pits of size as required, painting the post, writing the letters on both sides of posts in 2 coats with enamel paint of approved quality to the Railways drawings/IRPWM with contractor's materials, cement, steel, labour, tools, plant, with all lead and lifts etc., complete as per specifications and as directed by the Engineer-in-charge. Note: Excavation, Concrete and steel work will be paid under relevant items.	Each	200.00	575.40	115080.00

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67	211280	Manufacture and supply of Precast Hectometer/TP Repeater posts of size 0.90Mx0.30 mx0.30Mx0.30M Triangular size in RCC 1:2:4 mix, engraving letters, leading to work spot, and fixing in position with CC 1:3:6 concrete, duly making pits of size as required, painting the post with two coats, letters on the both sides of posts with enamel paint of approved quality as per IRPWM/Railways drawings complete with contractor's materials, cement, steel, labour, tools, plant, with all lead and lifts etc., complete as per specifications and as directed by the Engineer-in-charge. Note: Excavation, Concrete and steel work will be paid under relevant items.	Each	600.00	191.75	115050.00
					<b>Total</b>	<b>831895351.85</b>

**4. ELIGIBILITY CONDITIONS**

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

**Standard Financial Criteria**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	"Financial Eligibility Criteria: The tenderer must have minimum average annual contractual turnover of V/N or ""V"" whichever is less crores; where V= Advertised value of the tender in crores of Rupees N= Number of years prescribed for completion of work for which bids have been invited. The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover. The tenderers shall submit requisite information as per Annexure-VIII, along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by Audited Balance Sheet.	No	No	Allowed (Mandatory)

**Standard Technical Criteria**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	(a)The tenderer must have successfully completed/substantially completed any of the following during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: (i)Three similar works each costing not less than the amount equal to 30% of advertised value of the tender, or (ii) Two similar works each costing not less than the amount equal to 40% of advertised value of the tender, or (iii) One similar work each costing not less than the amount equal to 60% of advertised value of the tender. (b) (i) In case of composite works (e.g. works involving more than one distinct component, such as Civil Engineering works, S&T works, Electrical works, OHE works etc. and in the case of major bridges - substructure, superstructure etc.), tenderer must have successfully completed/substantially completed any of the following during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: Three similar works each costing not less than the amount equal to 30% of advertised value of each component of tender, or Two similar works , each costing not less than the amount equal to 40% of advertised value of each component of tender, ora One similar work, each costing not less than the amount equal to 60% of advertised value of each component of tender. Note: Separate completed works of minimum required values for each component can also be considered for fulfillment of technical eligibility criteria. (b) (ii) In such cases, what constitutes a component in a composite work shall be clearly pre-defined with estimated tender cost of it, as part of the tender documents without any ambiguity. Any work or set of works shall be considered to be a separate component, only when cost of the component is more than Rs. 2 crore each. The tenderer shall submit the completion certificate as per proforma given in annexure-IV-A or IV-B or IV-C as applicable or in the format containing all information as required as per the Annex. IV-A or IV-B or IV-C. Note :- Criteria for the completed work/Substantially completed has been given in the General instructions in the tender document.	No	No	Allowed (Mandatory)

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1.1	Defination of Similar Work :- Civil/Composite construction work in railways, metro rails, LRT, mono rail, high speed rail, highways, expressways, bridges (road/railways) and tunnels (road/railways)	No	No	Not Allowed
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**Bidders shall confirm and certify on the behalf of the tenderer including its constituents as under:**

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

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

S.No.	Description
1	<b>Partnership firm/Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc.</b> Please submit a certificate in the prescribed format (please download the format from the link given below). Non submission of the certificate, or submission of certificate either not properly filled in, or in a format other than the prescribed format shall lead to summary rejection of your offer. ( <a href="#">Click here</a> to download the Format of Self Certification)

**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	"Mandatory in case Bid security amount is prescribed in STD Para 5.1.2 - The Bid Security shall be deposited in cash through e-payment gateway or submitted as Bank Guarantee bond from a scheduled commercial bank of India or as mentioned in tender documents. The Bank Guarantee bond shall be as per Annexure-XXXII and shall be valid for a period of 90days beyond the bid validity period.	No	No	Allowed (Mandatory)
2	In case the tenderer is (i)Any firm recognized by Department of Industrial Policy and Promotion (DIPP) as 'Startups' - shall be exempted from payment of Bid security deposit and shall submit certified copy of the registration/ Valid document issued by DIPP (mandatory if applicable)	Yes	Yes	Allowed (Optional)

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3	In case the tenderer is (iii) Labour Cooperative Societies - shall deposit only 50% of the Earnest Money Deposit and shall submit certified copy of the registration/ Valid document issued by the relevant Ministry/ Labour commission (mandatory if applicable).	Yes	Yes	Allowed (Optional)
4	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)

**Special Conditions**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The Minimum Increment as mentioned in the Clause no. 26.1 (b), Annexure C, Para 2 of the "GENERAL INSTRUCTIONS" of Tender Document will be as per railway board guidelines or as approved by Tender accepting authority . (Applicable to the works and service tenders of value more than Rs.50 crore.)	No	No	Not Allowed
2	I/We have read the various conditions to tender attached here to and agree to abide by the said conditions. I/We also agree to keep this tender open for acceptance for a period as mentioned in NIT header from the date fixed for opening the same and in default thereof, I/We will be liable for forfeiture of my/our "Bid security". I/We offer to do the work for North Western Railway, at the rates quoted in the attached schedule and hereby bind myself/ourselves to complete the work in all respects within time period as mentioned in the NIT Header from the date of issue of letter of acceptance of the tender.	No	No	Not Allowed
3	I/We also hereby agree to abide by the General Conditions of Contract-2022 corrected up- to- date and to carry out the work according to the Special Conditions of Contract and Indian Railways Unified Standard Specifications (Materials and Works) 2021 as corrected up-to-date, Unified Standard Schedule of Rates of North-Western Railway - 2021 as corrected up-to-date & CPWD DSR-2021 and Specification 2019 (for the present contract)	No	No	Not Allowed

**Technical-Compliances**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The tenderer shall submit the Firm's detail as per Annexure I. (Mandatory for all firms)	Yes	Yes	Allowed (Mandatory)
2	The tenderer shall submit the copy of certificate as per proforma given in Annexure II. & IIA(Mandatory for all firms)	Yes	Yes	Allowed (Mandatory)
3	The tenderer should submit the List of similar nature of works physically completed/substantially completed in all respects during last 7 years , ending last day of month previous to one in which tender is invited,(i) directly awarded by Govt./Semi Govt./Public sector undertaking / Autonomous bodies /Municipal bodies/ Railways Siding owners (ii) Public listed company having average annual turnover of Rs. 500 crore and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, incorporated/registered at least 5 years prior to the date of closing of tender/ as per proforma given in Annexure-III. In case of JV firm, these details are also required for all the members of the JV firm. In case, the Secondary Component(s) has/ have been defined, the details of successfully completed works of similar nature (that defined for the Secondary Component), executed by tenderer himself / the subcontractor (fully by any one or jointly i.e. partly by tenderer and remaining through subcontractor) during last five years, shall also be submitted (for five years )	Yes	Yes	Allowed (Optional)



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4	In case of composite work, having distinct components and having separate schedule for each component having value more than 2 crores, tenderer should submit a details of work of similar nature successfully completed/substantially completed during last 7 years , ending last day of month previous to the one in which tender invited and detailed in Annexure-III (Bifurcated as per components of tender schedule), as per proforma given in Annexure-III-A. (Mandatory in case of tender for composite nature of work). In case of JV firm, these details are also required for all the members of the JV firm. In case, the Secondary Component(s) has/ have been defined, the details of successfully completed works of similar nature (that defined for the Secondary Component), executed by tenderer himself / the subcontractor (fully by any one or jointly i.e. partly by tenderer and remaining through subcontractor) during last five years, shall also be submitted (for five years ).	Yes	Yes	Allowed (Mandatory)
5	The tenderer shall submit the Attested copy of Completion Certificate/ substantially completed of works mentioned in Standard Technical Criteria under eligibility criteria above from the Organizations with whom they worked as per proforma given in Annexure-IV-A or IV-B (If the work is substantially completed) or IV- C (if the work is awarded by Public listed Company) as applicable. (Mandatory for all firms). In case of JV firm, these details are also required for all the members of the JV firm. In case, the Secondary Component(s) has/ have been defined, the Attested copy of Completion Certificate of works executed by tenderer himself / the subcontractor (fully by any one or jointly i.e. partly by tenderer and remaining through subcontractor) during last five years, shall also be submitted.	Yes	Yes	Allowed (Mandatory)
6	Details of Average Annual turnover of the public listed company (company should be 500 Cr and above) issued by Chartered Accountant. These details need to be submitted as per the proforma of Annexure VIII ( Mandatory in case of completion certificate issued by public listed company as per annexure IV- C)	Yes	Yes	Allowed (Optional)
7	The copy of the documents regarding listing in the National stock exchange or Bombay stock exchange with details of status of listing as on date of opening of tender, duly self-attested. (Mandatory in case of completion certificate issued by public listed company as per annexure IV-C)	Yes	Yes	Allowed (Optional)
8	The copy of the document of incorporation/ registration of the Public listed company (should be at least 5 years prior to date of closing of tender), duly self-attested. ( Mandatory in case of completion certificate issued by public listed company as per annexure IV- C)	Yes	Yes	Allowed (Optional)
9	The copy of document regarding Person Authorized by the Public listed Company to issue such certificate, duly self-attested. ( Mandatory in case of completion certificate issued by public listed company as per annexure IV- C)	Yes	Yes	Allowed (Optional)
10	Tenderer shall also submit the relevant copy of work order, bill of quantities bill wise details of payment received duly certified by Chartered Accountant, TDS certificates for all payments received a copy of final/last bill paid by the public listed company in support of above work experience certificate duly self-attested.(Mandatory in case of completion certificate issued by public listed company as per annexure IV- C)	Yes	Yes	Allowed (Optional)
11	The tenderer shall submit the self attested copy of the PERMANENT ACCOUNT NO. issued by the Income Tax Department.	Yes	Yes	Allowed (Optional)
12	The tenderer shall submit the test report of the stone ballast conforming to railways specifications as mentioned in the general instructions of tender document. (This condition is mandatory and will be applicable only for the tenders of supply of ballast as specified "as required" in tender document. In case of non-compliance of this condition by the tenderer in ballast tenders only, the offer of the same will be summarily rejected.)	Yes	Yes	Allowed (Optional)
13	The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover. The tenderers shall submit requisite information as per Annexure-VIII, along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by Audited Balance Sheet.	Yes	Yes	Allowed (Mandatory)

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14	A statement showing construction works executed and payment received in any one of the previous three financial years or the current financial year (up to date of inviting tender) taking into account the completed as well as work in progress as per Annexure-XIX on the letter head of Chartered Accountant, to evaluate bid capacity of the tenderer (Mandatory for tender value more than Rs. 20 Crores). In case of JV firm details of construction works executed by each member of JV is required to be submitted	Yes	Yes	Allowed (Optional)
15	The tenderer should submit the List of works on hand, existing commitments and balance amount of ongoing works as per proforma given in 'Annexure-V to evaluate bid capacity of the tenderer, duly verified by the Chartered accountant (Mandatory for tender value more than Rs. 20 crores)	Yes	Yes	Allowed (Optional)
16	The tenderer should submit the List of plants & Machinery available on hand (own) and proposed to be inducted/ Hired (own and hired to be given separately) for the subject work in Annexure-VI.	Yes	Yes	Allowed (Optional)
17	The tenderer should submit the List of Personnel, Organization available on hand and proposed to be engaged for the subject work in Annexure -VII.	Yes	Yes	Allowed (Optional)
18	The tenderer in the capacity of Sole Proprietor tenderer shall submit the affidavit duly executed on stamp paper and notarized as per Annexure IX. (Mandatory for Sole Proprietorship Firm/ for JV firm having Sole Proprietor firm as a member)	Yes	Yes	Allowed (Optional)
19	The tenderer shall submit the Power of Attorney duly registered with registrar or notarized as per proforma given in Annexure XIV to be submitted by sole proprietor firm duly registrar with the registrar or notarized. (Mandatory for Sole Proprietorships Firm , if tender documents are uploaded by any individual ,authorized by him) (Not required if tender documents are uploaded by proprietor himself).	Yes	Yes	Allowed (Optional)
20	The tenderer in the capacity of HUF shall submit the affidavit duly executed on stamp paper and notarized as per Annexure XXVI. (Mandatory for HUF firm/ for JV having HUF as a member)	Yes	Yes	Allowed (Optional)
21	The tenderer in the capacity of HUF shall submit the Power of Attorney, duly executed on stamp paper and duly registered with registrar/ notarized as per Annexure XXVII. (Mandatory for HUF firm)( Required , if tender documents are uploaded by any individual ,authorized by him) (Not required if tender documents are uploaded by Karta himself).	Yes	Yes	Allowed (Optional)
22	The tenderer as partnership firm shall submit copy of partnership deed (duly registered with registrar or Notarized prior to the date of tender opening as per Indian partnership Act) (Mandatory for Partnership Firm /JV Firm having partnership firm as a member)	Yes	Yes	Allowed (Optional)
23	The tenderer as partner ship firm shall submit the Power of Attorney (duly registered with registrar or notarized) as per proforma given in Annexure-XIII to be submitted by Partnership firm. (Mandatory for Partnership Firm) (Required even if one or more partners are authorized in Partnership deed to sign and upload the offer on behalf of the firm.)	Yes	Yes	Allowed (Optional)
24	The tenderer in the capacity of Company shall submit the Copy of Memorandum of Association / Articles of Association of Company. (Mandatory for Company Firm / JV Firm having having Company as a member)	Yes	Yes	Allowed (Optional)
25	The tenderer in the capacity of Company shall submit the copy of resolution passed by Board of Directors authorizing its Director/Employee to deal with tender on behalf of company.(Mandatory for Company Firm)	Yes	Yes	Allowed (Optional)
26	The tenderer in the capacity of company shall submit the Copy of Certificate of Incorporation of the Company. (Mandatory for Company Firm/JV Firm having having Limited Company as a member)	Yes	Yes	Allowed (Optional)
27	The tenderer in the capacity of company shall submit the Power of Attorney/ Authorization (duly registered with registrar or notarized) including ratification clause duly signed by person authorized by the company as per proforma given in Annexure-XV. (Mandatory for Company Firm)( Required even if tender documents are submitted by the authorized/ power of attorney holder himself as per resolution passed by Board of Directors)	Yes	Yes	Allowed (Optional)
28	The tenderer in the capacity of Limited liabilities Partnership firm (LLP firm) shall submit the copy of LLP Agreement (Mandatory for LLP firm /JV Firm having LLP Firm as a member)	Yes	Yes	Allowed (Optional)

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29	The tenderer in the capacity of Limited liabilities Partnership firm (LLP firm) shall submit the copy of Certificate of Incorporation (Mandatory for LLP firm /JV Firm having LLP Firm as a member)	Yes	Yes	Allowed (Optional)
30	The tenderer in the capacity of Limited liabilities Partnership firm (LLP firm) shall submit the copy of Resolution of Partners of LLP firm (executed on the Letter Head of LLP firm) in favour of the individual to sign he tender on behalf of the LLP firm and deal with tender on behalf of the firm as per proforma given in Annexure-XX.(Mandatory for LLP firm).	Yes	Yes	Allowed (Optional)
31	The tenderer in the capacity of Registered Society/ Registered Trust shall submit the copy of the certificate of registration (Mandatory for Registered Society/ Registered Trust and JV firm having Registered Society/ Registered Trust as a member)	Yes	Yes	Allowed (Optional)
32	The tenderer in the capacity of Registered Society/ Registered Trust shall submit the copy of the Deed of Formation (Mandatory for Registered Society/ Registered Trust and JV firm having Registered Society/ Registered Trust as a member)	Yes	Yes	Allowed (Optional)
33	A copy of power of attorney in favour of the individual to sign the tender document and create liabilities against society/trust (Annexure XXI)	Yes	Yes	Allowed (Optional)
34	The tenderer in the capacity of JV firm shall submit the Memorandum of Understanding of JV duly notarized as per proforma given in Annexure-X. (Mandatory for Joint Venture Firm)	Yes	Yes	Allowed (Optional)
35	The private/ limited company, sole proprietor firm or HUF/Society/Trust participating as a member of JV shall submit the Power of Attorney duly registered with registrar or notarized as per proforma given in Annexure-XII (Mandatory), (For private/ limited company as member of JV- the annexure XII is required even if MOU/JV agreement is signed by the authorized/ Power of attorney holder himself as per the Copy of Resolution) (For sole proprietor firm/HUF as member of JV- Not required if MOU/JV agreement is signed by the proprietor of the sole proprietor firm/ karta of HUF himself)	Yes	Yes	Allowed (Optional)
36	The tenderer in the capacity of JV firm shall submit the Letter of consent duly executed on stamp paper as per proforma given in Annexure-XI to be submitted by a partnership firm participating as a Member of JV firm. (Mandatory for Joint Venture Firm if one of the member is Partnership firm)	Yes	Yes	Allowed (Optional)
37	The tenderer in the capacity of JV firm shall submit the Power of Attorney duly registered with registrar or notarized in favour of the individual to sign the MOU/JV agreement on behalf of the partnership firm and create liability against the firm as per proforma given in Annexure-XVIII.(Mandatory for Joint Venture Firm if one of the member is Partnership firm) (Required even if MOU/JV agreement is signed by one or more partners authorised in the partnership deed, letter of consent )	Yes	Yes	Allowed (Optional)
38	The tenderer in the capacity of Limited liabilities Partnership firm (LLP firm) shall submit submit the Power of Attorney duly registered with registrar or notarized, issued by LLP firm as per proforma given in Annexure-XX. (Mandatory for LLP firm/ for JV having LLP as member) ( Required even if tender documents are submitted by the authorized/ power of attorney holder himself as per resolution passed by Partners of the LLP)	Yes	Yes	Allowed (Optional)
39	The tenderer in the capacity of JV firm shall submit the Copy of Resolution of the Partners of LLP firm, permitting the LLP firm to enter into a JV agreement, authorizing one of the partner of LLP firm to sign MOU/JV Agreement and such other documents required to be signed on behalf of the LLP firm and to create liabilities against the LLP firm and / or to do any other act on behalf of the LLP firm as per proforma given in Annexure-XXIII (Mandatory for JV firm if one of the member is LLP firm).	Yes	Yes	Allowed (Optional)
40	The tenderer in the capacity of JV firm shall submit the Power of Attorney duly registered with registrar or notarized (Backed by Resolution of the Partners of LLP firm) in favour of individual to sign the tender, to sign MOU/JV Agreement on behalf of the LLP firm and create liability against the LLP firm as per proforma given in Annexure-XXIV. (Mandatory for JV firm if one of the member is LLP firm).	Yes	Yes	Allowed (Optional)

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41	The tenderer in the capacity of JV firm shall submit the copy of resolution passed by Board of Directors of the Company, permitting the company to enter into a JV agreement, authorizing MD or one of the Directors of Mangers of the Company to sign JV Agreement, such other documents required to be signed on behalf of the Company and enter into liability against the company and/or do any other act on behalf of the company to be submitted as per Annexure-XVII. ( Mandatory for JV firm if one of the member is Limited Company)	Yes	Yes	Allowed (Optional)
42	The tenderers shall submit the information and particulars regarding retired Railway Engineer(s)/Officer(s) of the Gazetted rank and regarding Relative(s) employed in Gazetted capacity on North Western Railway as per proforma given in Annexure XXII (Mandatory)	Yes	Yes	Allowed (Mandatory)
43	The tenderer in the capacity of newly formed Partnership Firm/ LLP Firm, shall submit Declaration as per ANNEXURE XXVIII (Mandatory if tenderer is Newly Formed Partnership Firm/ LLP Firm. The following relevant documents are Annexed with bid - (mandatory as applicable) (1) Details of previous Propriety firm / Partnership Firm/ LLP firm as per annexure I (2) A copy of previous partnership Firm (Notarized or duly registered with the Registrar) (3) Affidavit as per proforma given of Annexure -IX for previous Propriety firm (duly executed on stamp paper and notarized). (4) Copy of previous LLP agreement and certificate of incorporation. (5) Dissolution deed/ splitting deed of the previous partnership deed or LLP agreement (in case of dissolution of previous partnership firm/ LLP firm) (6) Proof of surrender of previous PAN no (in case of dissolution of previous partnership firm, LLP firm or propriety firm) (7) Documents for the technical, financial criteria, bid capacity as claimed w.r.t. such partner(s) joining the new/ existing partnership firm, as per para 16.1 (c), (d), (f),(g), (k) of Bid document.	Yes	Yes	Allowed (Optional)
44	The tenderer in the capacity of existing Partnership Firm/ LLP Firm, shall submit Declaration as per Annexure XXXIX (Mandatory if tenderer is existing Partnership Firm/ LLP Firm. The following relevant documents are Annexed with bid - (mandatory as applicable) (1) Details of previous Propriety firm / Partnership Firm/ LLP firm as per annexure I. (2) A copy of previous partnership Firm (Notarized or duly registered with the Registrar) (3) Affidavit as per proforma given of Annexure -IX for previous Propriety firm (duly executed on stamp paper and notarized). (4) Copy of previous LLP agreement and certificate of incorporation. (5) Dissolution deed/ splitting deed of the previous partnership deed or LLP agreement (in case of dissolution of previous partnership firm/ LLP firm) (6) Proof of surrender of previous PAN no (in case of dissolution of previous partnership firm, LLP firm or propriety firm) (7) Documents for the technical, financial criteria, bid capacity as claimed w.r.t. such partner(s) joining the new/ existing partnership firm, as per para16.1 (c), (d), (f),(g), (k) of Bid document	Yes	Yes	Allowed (Optional)
45	The tenderer in the capacity of existing/ New Company, shall submit Declaration regarding constitution of the existing/ New Company as per Annexyre XXX (Mandatory if tenderer is merged Company). The following relevant documents are Annexed with bid - (mandatory as applicable) (1) Details of company getting merged as per annexure I (2) Copy of Memorandum of Association/ Articles of Association of the Company getting merged (3) Copy of certificate of incorporation of previous company getting Merged. (4) Resolution by the Board of Directors for the Merger of the company(s) with the tenderer (5) Proof of surrender of previous PAN no (6) Documents for the technical, financial criteria, bid capacity as claimed w.r.t. such Company(s) joining the new/ existing Company, as per para 16.1 (c), (d), (f), (g), (k) of Bid document	Yes	Yes	Allowed (Optional)
46	Tenderer shall submit a formal agreement duly notarized, legally enforceable in the court of law, executed by tenderer with the subcontractor for the component(s) of work proposed to be executed by the subcontractor(s), and shall be submitted along with the offer as per performa given in Annexure XXXI.(Mandatory in case of secondary components are defined in the tender with special condition 'for submission along with the Offer)	Yes	Yes	Allowed (Optional)

**Undertakings**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
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1	An amount towards Bid Security As mentioned in the relevant Para of NIT header has been submitted online through net banking or payment gateway or Bank guarantee. The full value of the Bid security shall stand forfeited without prejudice to any other right or remedies in case my/our tender is accepted and if:- (a) I/We do not execute the contract documents within seven days after receipt of notice issued by the Railway that such documents are ready; and (b) I/We do not commence the work within fifteen days after receipt of orders to that effect.	No	No	Not Allowed
2	Until a formal agreement is prepared and executed, acceptance of this tender shall constitute a binding contract between us subject to modifications, as may be mutually agreed to between us and indicated in the letter of acceptance of my/our offer for this work.	No	No	Not Allowed
3	The tenderer shall submit the original copies of the documents as per Annexure II, IIA, IX, X, XI, XII, XIII, XIV, XV, XVII, XVIII, XX, XXI, XXII, XXIII, XXIV, XXV, XXVI, XXVII, XXVIII, XXXIX, and XXXII or other document as applicable for Sole Proprietor/ HUF/Partnership firm/LLP firm/ Registered Society / Registered Trust /Limited Company/JV Firms as and when required by the Railway for the verification. If the required documents are not submitted by the tenderer or there any discrepancy is found between the scanned uploaded documents by the tenderer and original documents then the offer of the concerned tenderer will be summary rejected and the action will be taken as per the various provisions of certificate to be submitted by the tenderer as per Annexure-II, IIA	No	No	Not Allowed
4	The tenderer shall comply with the provisions of the Contract Labour (Regulation and Abolition) Act 1970 and the Contract Labour (Regulation and Abolition) Central Rules 1971 as modified from time to time, wherever applicable and shall also indemnify the Railway from and against any claims under the aforesaid Act and Rules.	No	No	Not Allowed
5	The tenderer shall comply with the provisions of the Payment of Wages Act 1936, Minimum Wages Act 1948, The Workmen Compensation Act 1923, and the rules made there under in respect of any employees employed directly or through petty contractors or sub-contractors engaged by them, as modified from time to time, wherever applicable and shall also indemnify the Railway from and against any claims under the aforesaid Act and Rules.	No	No	Not Allowed
6	The tenderer shall comply with the provisions of the Employees provident fund and Miscellaneous Provision Act 1952 and the rules made there under as modified from time to time, wherever applicable and shall also indemnify the Railway from and against any claims under the aforesaid Act and Rules.	No	No	Not Allowed
7	The tenderer shall comply with the provisions of the Employees State Insurance Act 1948 and Employees Pension Scheme 1995 and the rules made there under as modified from time to time, wherever applicable and shall also indemnify the Railway from and against any claims under the aforesaid Act and Rules.	No	No	Not Allowed
8	The successful tenderer after award of the contract shall register himself on website <a href="http://www.shramikkalyan.indianrailways.gov.in">www.shramikkalyan.indianrailways.gov.in</a> and will comply the provisions of the Para 39 of the Special Conditions (General) of Standard Tender Document.	No	No	Not Allowed
9	I/We have read the various conditions of clause no. 26 of General Instructions of Tender Document and Special Condition of NIT regarding Electronic Reverse Auction and agree to abide by the said conditions.	No	No	Not Allowed
10	Certify that neither I /We (name of the sole Proprietor firm/ Partnership Firm/Limited Company/ LLP/Registered Society/Trust / JV firm) nor any of the partner or partnership firm/ LLP /Member of Registered Society/ Trust / Constituent of JV firm including partner of partnership firm in JV has/ have been black listed or debarred by Railway or any other Ministry /Department/ Public Sector Undertaking of the Government of India/ any State from participation in tenders/contract on the date of opening of bids either in our individual capacity or in any firm in which we are partners.	No	No	Not Allowed
11	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
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**DYCE-C-I-AII-ENGINEERING/NORTH WESTERN RLY  
TENDER DOCUMENT**

**Tender No:** NWR-SC-AII-COR-DL-T

**Closing Date/Time:** 28/05/2024 15:00

1	TenderDocument230424.pdf	Tender document
2	GCC-2022.pdf	GCC 2022
3	2022_CE-I_CT_GCC-2022Policy14_07_2022.pdf	ACS 1 GCC 2022
4	IndianRailwaysStandardGeneralConditionsofContractApril2022ACSNo2.pdf	ACS 2 GCC 2022
5	IndianRailwaysStandardGeneralConditionsofContractApril-2022AdvanceCorrectionSlipNo3ACS-3.pdf	ACS 3 GCC 2022
6	2023_04_26RBCE_CE-I-CTIndianRailwaysStandardGeneralConditionsofContractApril-2022AdvanceCorrectionSlipNo_4ACS-4.pdf	ACS 4 GCC 2022
7	2023_10_20RBCE_CE-I-CTIndianRailwaysStandardGeneralConditionsofContractApril-2022AdvanceCorrectionSlipNo_5ACS-5.pdf	ACS 5 GCC 2022
8	2023_12_21IndianRailwaysStandardGeneralConditionsofContractApril-2022AdvanceCorrectionSlipNo_6ACS-6.pdf	ACS 6 GCC 2022
9	Specialcondition-ElectricalAII-COR.pdf	Special Conditions of Electrical

This tender complies with Public Procurement Policy (Make in India) Order 2017, dated 15/06/2017, issued by Department of Induswww Promotion and Policy, Ministry of Commerce, circulated vide Railway Board letter no. 2015/RS(G)/779/5 dated 03/08/2017 and 27/12/2017 and amendments/ revisions thereof.

As a Tender Inviting Authority, the undersigned has ensured that the issue of this tender does not violate provisions of GFR regarding procurement through GeM.

**Signed By:** NEERAJ KUMAR

**Designation :** Dy.CE(C)-I/AII