

**CAO-C-SOUTH-HQ-ENGINEERING/EAST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** ECR-CON-DNR-I-01-2026-27

**Closing Date/Time:** 10/07/2026 15:30

**CAO/CON/South** acting for and on behalf of The President of India invites E-Tenders against Tender No **ECR-CON-DNR-I-01-2026-27** Closing Date/Time 10/07/2026 15:30 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>	Upgradation of Jagjeewan stadium & Modification of V.N sharma Institute near Danapur Railway station under Danapur Division of East Central Railway.		
<b>Bidding type</b>	Normal Tender		
<b>Tender Type</b>	Open	<b>Bidding System</b>	Two Packet System
<b>Tender Closing Date Time</b>	10/07/2026 15:30	<b>Date Time Of Uploading Tender</b>	19/06/2026 12:29
<b>Pre-Bid Conference Required</b>	No	<b>Pre-Bid Conference Date Time</b>	Not Applicable
<b>Advertised Value</b>	319880499.21	<b>Tendering Section</b>	TENDER
<b>Bidding Style</b>	Single Rate for Each Schedule	<b>Bidding Unit</b>	
<b>Earnest Money (Rs.)</b>	6397600.00	<b>Validity of Offer ( Days)</b>	90
<b>Tender Doc. Cost (Rs.)</b>	0.00	<b>Period of Completion</b>	12 Months
<b>Contract Type</b>	Works - General	<b>Contract Category</b>	Expenditure
<b>Bidding Start Date</b>	26/06/2026		
<b>Are JV allowed to bid</b>	Yes	<b>Number of JV Member Allowed</b>	3
<b>Are Consortium allowed to bid</b>	No	<b>Number of Consortium Member Allowed</b>	0
<b>Ranking Order For Bids</b>	Lowest to Highest	<b>Expenditure Type</b>	Capital (Works)

**2. SCHEDULE**

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule ( ) D-HORTICULTURE AND LANDSCAPING.</b>							2163488.20	Above/ Below/Par
1	Please see Item Breakup for details.				2923632.70	(-) 26.00	2163488.20	
	<b>Description:-</b> HORTICULTURE AND LANDSCAPING.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule ( ) G-Unforeseen items.</b>							3700000.00	Above/ Below/Par
1	Lump Sum				5000000.00	(-) 26.00	3700000.00	
	<b>Description :-</b> Unforeseen items-Any other items of ECR's DSR-2021 edition with up to date correction slips which are not covered by the item of Schedule- D-I,D-II,D-III,D-IV,D-IV(a) D-V,D-VI,D-VII,D-VIII,D-IX&D-X							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule ( ) A1-N.S ITEM(Ward Robe, Doors &amp; other Hardware works)</b>							14258820.22	Above/ Below/Par
01	Please see Item Breakup for details.				14258820.22	AT Par	14258820.22	
	<b>Description:-</b> N.S ITEM)(Ward Robe, Doors & other Hardware works							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule ( ) A2-(N.S ITEM) (Fire Fighting works)</b>							9620933.26	Above/ Below/Par
01	Please see Item Breakup for details.				9620933.26	AT Par	9620933.26	
	<b>Description:-</b> (N.S ITEM) (Fire Fighting works)							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule ( ) A3-(Special type 'Bathroom Accessories')</b>							1417746.86	Above/ Below/Par
01	Please see Item Breakup for details.				1417746.86	AT Par	1417746.86	
	<b>Description:-</b> (Special type 'Bathroom Accessories')							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule ( ) A4-(Special type of doors, Glazed wall paneling etc.)</b>							1296688.25	Above/ Below/Par
01	Please see Item Breakup for details.				1296688.25	AT Par	1296688.25	
	<b>Description:-</b> (Special type of doors, Glazed wall paneling etc.)							

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S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> () A5-(Running track.)							7909936.65	Above/ Below/Par
01	Please see Item Breakup for details.				7909936.65	AT Par	7909936.65	
	<b>Description:-</b> (Running track.)							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> () B1-Earth work							20219270.45	Above/ Below/Par
01	Please see Item Breakup for details.				21551130.30	(-) 6.18	20219270.45	
	<b>Description:-</b> Earth work							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> () D1-CARRIAGE OF MATERIAL							273925.80	Above/ Below/Par
01	Please see Item Breakup for details.				370170.00	(-) 26.00	273925.80	
	<b>Description:-</b> CARRIAGE OF MATERIAL							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> () D2-Earth work							5480073.40	Above/ Below/Par
01	Please see Item Breakup for details.				7405504.60	(-) 26.00	5480073.40	
	<b>Description:-</b> Earth work							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> () D3-Masonry Work							17506406.74	Above/ Below/Par
1	Please see Item Breakup for details.				23657306.40	(-) 26.00	17506406.74	
	<b>Description:-</b> Masonary Work							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> () D4-cement concrete, Reinforced cement concrete, Flooring,Roofing, Finishing,Dismantling & Demolishing.							110629392.98	Above/ Below/Par
01	Please see Item Breakup for details.				149499179.70	(-) 26.00	110629392.98	
	<b>Description:-</b> cement concrete, Reinforced cement concrete, Flooring,Roofing, Finishing,Dismantling & Demolishing.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> () D5-Cladding Work,Wood and PVC work,Repair to Building.							10170245.39	Above/ Below/Par
01	Please see Item Breakup for details.				13743574.85	(-) 26.00	10170245.39	
	<b>Description:-</b> Cladding Work,Wood and PVC work,Repair to Building.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> () D6-Steel work,Aluminium work, Structural glazing Aluminium composite panel.							5765997.23	Above/ Below/Par
01	Please see Item Breakup for details.				7791888.15	(-) 26.00	5765997.23	
	<b>Description:-</b> Steel work,Aluminium work, Structural glazing Aluminium composite panel.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> () D7-Road Work.							17918268.46	Above/ Below/Par
01	Please see Item Breakup for details.				24213876.30	(-) 26.00	17918268.46	
	<b>Description:-</b> Road Work.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> () D8-Sanitary installations, Water supply , Drainage.							3713933.02	Above/ Below/Par
01	Please see Item Breakup for details.				5018828.40	(-) 26.00	3713933.02	
	<b>Description:-</b> Sanitary installations, Water supply , Drainage.							

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S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> ( ) D9-Pile work.							37964387.09	Above/ Below/Par
01	Please see Item Breakup for details.				51303225.80	(-) 26.00	37964387.09	
	<b>Description:-</b> Pile work.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> ( ) D10-Water proofing,Rain water harvesting & tubewells, Conservation of heritage building, New Technologies and Materials.							2695900.11	Above/ Below/Par
01	Please see Item Breakup for details.				3643108.25	(-) 26.00	2695900.11	
	<b>Description:-</b> Water proofing,Rain water harvesting & tubewells, Conservation of heritage building, New Technologies and Materials.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> ( ) D4a-Steel Reinforcement							47175085.10	Above/ Below/Par
01	Please see Item Breakup for details.				63750115.00	(-) 26.00	47175085.10	
	<b>Description:-</b> Steel Reinforcement.							

**3. ITEM BREAKUP**

<b>Schedule</b>	Schedule D-HORTICULTURE AND LANDSCAPING.					
<b>Item- 1</b>	HORTICULTURE AND LANDSCAPING.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	2.0	<b>HORTICULTURE 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	100	515.6	51560
2	2.11	Renovating lawns including weeding, cheeling the grass, forking the ground, top dressing with sludge or manure, mixing the same with forked soil, watering and maintaining the lawn for 30 days or more till the grass forms a thick lawn free from weeds and fit for mowing and disposal of rubbish as directed, including supplying good earth if needed (the cost of sludge, manure and the good earth shall be paid for separately).	Sqm	100	34.4	3440
3	2.16	Providing and fixing M.S. flat iron tree guard 60 cm dia and 2 m high, above ground consisting 4 nos 25 x 6 mm, 2.25 m long and 8 nos 25 x 3 mm 2 m long verticals M.S. flats, riveted to 3 nos 25 x 6 mm M.S. flat iron rings in two halves, fixing together at site with required six numbers of 8 mm dia and 30 mm long bolts, including painting two coats with synthetic enamel paint of approved brand and manufacture over a coat of primer. One name plate of 1 mm thick M.S. sheet of size 250x100 mm shall be welded to the tree guard near the middle height and lettered CPWD / PWD/ any other approved name. The tree guard shall be suitably fixed to the ground by embedding four legs of tree guard in pits of suitable dia and to a depth of 25 cm, refilling the pits with soil and ramming, complete in all respect as per satisfaction and direction of Officer-in-charge.	Each	25	4533.1	113327.5
4	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	30000	87.5	2625000
5	2.50	Providing & fixing of White River (Stone) Pebbles size of 2" to 2.50" dia in natural colour at site of work including loading, unloading, carriage and all taxes paid etc. and as per direction of officer in charge.	Quintal	1	610.7	610.7
	3.0	<b>FOLIAGE AND SHADE LOVING PLANTS</b>				
6	3.3	Providing and displaying of Aglaonema Parrot Jungle (three in one), having ht. 30 cm and above with 20 to 25 leaves, well developed, fresh & healthy in 25 cm size of Earthen pot/Plastic pot & as per direction of the officer- in-charge.	Each	15	67.65	1014.75

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7	3.5	Providing and displaying of Aglaonema Pseudo-bractatum s, having ht. 30 cm and above with 3 to 4 suckers & 20 to 25 leaves, well developed, fresh and healthy in 25 cm size of Earthen pot/Plastic pot & as per direction of the officer-in-charge.	Each	15	87.15	1307.25
8	3.14	Providing and displaying of Araucaria cookie having ht. 75 cm to 90 cm, straight, well developed, fresh and healthy with lush green leaves from bottom to top in 25 cm size of Earthen pot/Plastic pot & as per direction of the officer-in-charge.	Each	15	215.25	3228.75
9	3.18	Providing and displaying of Areca Palm having ht. 90 cm to 1.20 m with 4 to 5 suckers, well developed, fresh and healthy with lush green foliage in 25 cm size of Earthen pot/Plastic pot & as per direction of the officer-in-charge.	Each	15	157.85	2367.75
10	3.26	Providing and displaying of Chamaedorea elegans palm having ht. 60 cm to 75 cm, well developed with fresh and healthy leaves in 25 cm size of Earthen pot/Plastic pot. & as per direction of the officer-in-charge.	Each	15	107.65	1614.75
11	3.27	Providing and displaying of Croton Challenger variety having ht. 30cm and above, well developed with full of fresh and healthy leaves in 20 cm size of Earthen pot/Plastic pot & as per direction of the officer-in-charge.	Each	15	45.1	676.5
12	3.30	Providing and displaying of Croton Golden having ht. 45 cm to 60 cm with 2 to 3 branches, well developed, fresh and healthy foliage in 25 cm size of Earthen pot/Plastic pot as per direction of the officer-in-charge.	Each	15	56.4	846
13	3.40	Providing and displaying of Dieffenbachia Tropic-snow having ht. 60 cm & above with 8 - 10 leaves, well developed, fresh & healthy in 25 cm size of Earthen pot/Plastic pot & as per direction of the officer-in-charge.	Each	15	78.95	1184.25
14	3.44	Providing and displaying of Dracaena Song of India (three in one), having ht. 30 cm and above, multibranched, well developed with fresh and healthy leaves in 25 cm size of Earthen pot/Plastic pot & as per direction of the officer-in-charge.	Each	15	112.75	1691.25
15	3.57	Providing and displaying of Livistona palm having ht. 60 cm to 75 cm, well developed with 8 to 10 leaves, fresh & healthy foliage in 30 cm size of Earthen pot/Plastic pot. as per direction of the officer-in-charge.	Each	15	215.25	3228.75
16	3.63	Providing and displaying of Philodendron emerald red colour mounted on moss stick 90 cm ht., having 3 s placed at equal distance, well developed with full of fresh & healthy leaves in 25 cm size of Earthen pot/Plastic pot & as per direction of the officer-in-charge.	Each	15	377.2	5658
17	3.67	Providing and displaying of Philodendron Oxycodium Golden Colour Mounted on moss stick 1.20 m ht., having 3 to 4 s placed at equal distance, well developed with full of fresh & healthy leaves in 25 cm size of Earthen pot/Plastic pot & as per direction of the officer-in-charge.	Each	15	233.7	3505.5
18	3.81	Providing and displaying of Seaforthia Palm having ht. 90 cm to 1.20 m with 6-8 suckers, well developed, fresh and healthy lush green leaves from bottom to top in 20 cm size of Earthen pot/Plastic pot & as per direction of the officer-in-charge.	Each	15	358.75	5381.25
	4.0	<b>SEASONAL PLANTS</b>				
	4.15	<b>Winter Seasonal plants</b>				
19	4.2	Providing and Displaying Anemone hybrid (3 in one) variety well developed with fresh & healthy Flower in full bloom in 25 cm Earthen Pot/Plastic Pot and as per direction of the officer-in-charge.	Each	15	86.1	1291.5
20	4.3	Providing and Displaying Antirrhinum Hybrid Dwarf variety (3 in one) well developed with fresh & healthy Flower multi branch in full bloom in 25 cm Earthen Pot/Plastic Pot and as per direction of the officer-in-charge	Each	15	54.35	815.25
21	4.6	Providing and Displaying Asiatic lilly hybrid variety (3 in one) in each pot having in full bloom 3 to 5 flowers 30 to 45 cm ht. well developed in 25 cm Earthen Pot/Plastic Pot and as per direction of the officer-in-charge.	Each	15	129.15	1937.25
22	4.8	Providing and Displaying Begonia rex having 15 to 23 cm ht., well developed with fresh & healthy foliage with 10 to 12 flowers in bloom in 20 cm Earthen Pot/Plastic Pot and as per direction of the officer-in-charge	Each	15	64.6	969
23	4.10	Providing and Displaying Calceolaria hybrid variety in full bloom well developed with fresh & healthy foliage in 20 cm Earthen Pot/Plastic Pot as per direction of the officer-in-charge.	Each	15	118.9	1783.5

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24	4.13	Providing and Displaying Chrysanthemum single variety in different colour well developed having 45 to 60 cm ht., minimum 100 and above half bloom flowers open well stacked with bamboo stick having three layer tiding by thread fresh and healthy foliage in 25 cm Earthen Pot and as per direction of the officer-in-charge.	Each	15	129.15	1937.25
25	4.16	Providing and Displaying Cineraria Hybrid dwarf variety in different colour well developed with fresh & healthy foliage in bloom in 25 cm Earthen Pot/ Plastic Pot and as per direction of the officer-in-charge.	Each	15	64.6	969
26	4.19	Providing and Displaying Clanthus well developed, with fresh & healthy foliage in bloom 30 to 45 cm ht., with stacking in 25 cm Earthen Pot/ Plastic Pot and as per direction of the officer-in-charge.	Each	15	86.1	1291.5
27	4.22	Providing and Displaying Cyclamen hybrid variety fresh & healthy in full bloom well developed in 25 cm Earthen Pot/Plastic Pot and as per direction of the officer-in-charge.	Each	15	215.25	3228.75
28	4.24	Providing and Displaying Dahlia double kenya variety in different colour well developed with 3 to 4 flowers in half bloom, good foliage stacked with Green painted Bamboo sticks, 45 to 60 cm height in 25 cm Earthen Pot/ Plastic Pot and as per direction of the officer-in-charge.	Each	15	86.1	1291.5
29	4.28	Providing and Displaying Dianthus dwarf specimen 6-8 in a pot with fresh & healthy foliage in full bloom well developed in 35 cm Earthen Tray/Nand as per direction of the officer-in-charge.	Each	15	377.2	5658
30	4.32	Providing and Displaying Geranium double variety having 30 cm ht., in different colour well developed with fresh & healthy foliage (3 in one) well bloomed in 25 cm Earthen Pot/Plastic Pot and as per direction of the officer-in-charge.	Each	15	134.3	2014.5
31	4.37	Providing and Displaying Marigold jaffri orange/yellow/Russet colour well developed with fresh & healthy foliage with 40 to 50 flowers in bloom specimen plant 60 to 75 cm ht in 25 cm Earthen Pot/Plastic Pot and as per direction of the officer-in-charge.	Each	15	150.7	2260.5
32	4.41	Providing and Displaying Mimulus multi branching bushy plant in different colour well developed fresh & healthy in full bloom in 20 cm Earthen Pot/Plastic Pot and as per direction of the officer-in-charge.	Each	15	75.85	1137.75
33	4.42	Providing and Displaying Mesembryanthemum in different colour well developed with fresh & healthy foliage in full bloom in 20 cm Earthen Pot/Plastic Pot and as per direction of the officer-in-charge	Each	15	32.8	492
34	4.52	Providing and Displaying Petunia hybrid well developed with fresh & healthy foliage in full bloom 6-8 in 35 cm Earthen Tray/Nand as per direction of the officer-in-charge.	Each	15	322.9	4843.5
35	4.53	Providing and Displaying Phlox in different colour well developed with fresh & healthy foliage 30 cm ht., in full bloom with stacking in 25 cm Earthen Pot/Plastic Pot and as per direction of the officer-in-charge.	Each	15	54.35	815.25
36	4.55	Providing and Displaying Poinsettia dwarf multi head, having upto 30 cm ht., with 3 to 4 branches with fully different colored top with fresh & healthy foliage well developed in 20 cm Earthen Pot/Plastic Pot and as per direction of the officer-in-charge.	Each	15	258.3	3874.5
37	4.61	Providing and Displaying Salvia ht. 45 to 60 cm multi branches stacking with bamboo stick specimen type with full bloom well developed in 30 cm Earthen Pot/Plastic Pot and as per direction of the officer-in-charge.	Each	15	129.15	1937.25
	4.71S	<b>Summer and Rainy Seasonal Plants</b>				
38	4.71	Providing and Displaying Celosia well developed fresh & healthy 20 to 25 cm ht. (attractive) multi branching at blooming stage in 20 cm Earthen Pot/ Plastic Pot and as per direction of the officer-in-charge.	Each	15	54.35	815.25
39	4.72	Providing and Displaying Caladium Hybrid variety 3 to 4 in a pot well developed with fresh & healthy foliage 30 to 45 cm ht. in different colour 25 cm Earthen Pot/Plastic Pot and as per direction of the officer-in-charge.	Each	15	64.6	969
	4.90S	<b>ROSE PLANTS</b>				
40	4.93	Providing and Displaying Standard Rose (H.T. variety) 3 to 4 healthy branch 90 cm and above ht. well developed with one and above flowers in 25 cm Earthen Pot, as per direction of the officer-in-charge.	Each	15	150.7	2260.5
	5.0	<b>ORNAMENTAL PLANTS</b>				

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41	5.6	Providing and Displaying Adenium Obesum well developed with fresh & healthy 4 to 5 branch 60 to 75 cm ht. in 40 cm size Earthen Pot/ Plastic Pot as per direction of the officer-in-charge.	Each	15	563.75	8456.25
42	5.10	Providing and Displaying Bird of paradise well developed with fresh & healthy 90 to 120 cm ht in 30 cm Earthen Pot/ Plastic Pot as per direction of the officer-in-charge.	Each	15	389.5	5842.5
43	5.12	Providing and Displaying Bougainvillea named variety, Sobhra, Thima, Marry palmar, Cherry Blossom etc. well developed with fresh & healthy bushy in full bloom 75 to 90 cm ht. in 40 cm Cement Pot as per direction of the officer-in-charge.	Each	15	322.9	4843.5
44	5.17	Providing and Displaying Cyprus golden well shaped developed with good colored foliage fresh & healthy 60 to 75 cm ht in 30 cm Earthen Pot as per direction of the officer-in-charge.	Each	15	430.5	6457.5
45	5.38	Providing and Displaying Topiary of Ficus Bush King well developed with fresh & healthy foliage from Top to Bottom with single pillar 60 to 75 cm spread, 210 to 225 cm ht., in 35 cm Cement Tray/Cement Pot as per direction of the officer-in-charge.	Each	15	1291.5	19372.5
	7.0	<b>TREE PLANTS</b>				
46	7.4	Providing and stacking of Alstonia scholaris of height 150-165 cm. in bag of size 25 cm as per direction of the officer-in-charge.	Each	15	65	975
47	7.9	Providing and stacking of Bombax ceiba of height 150-165 cm. in big poly bags of size 25 cm as per direction of the officer-in-charge.	Each	15	70	1050
48	7.10	Providing and stacking of Bottle palm of ht. 150-180 cm bottom girth 20-25 cm well developed in big poly bags of size 25 cm as per direction of the officer-in-charge.	Each	15	180	2700
49	7.13	Providing and stacking of Butea frondosa (Flame of Forest) of height 60-75 cm. in big poly bags of size 25 cm as per direction of the officer-in-charge.	Each	15	55	825
50	7.15	Providing and stacking of Casuarina equisetifolia of height 150-165 cm in big poly bags of size 25 cm as per direction of the officer-in-charge.	Each	15	60	900
51	7.16	Providing and stacking of Cassia fistula (Amaltash) of height 120-135 cm. in big poly bags of size 25 cm as per direction of the officer-in-charge.	Each	15	65	975
52	7.17	Providing and stacking of Cassia siamea of height 150-165 cm. in big poly bags of size 25 cm as per direction of the officer-in-charge.	Each	15	65	975
	8.0	<b>SHRUBS</b>				
53	8.1	Providing and stacking of Bauhinia acuminata height 60-75 cm. in earthen pots of size 20 cm as per direction of the officer-in-charge.	Each	15	45	675
54	8.2	Providing and stacking of Bauhinia tomentosa (yellow) of height 60-75 cm. in earthen pots of size 20 cm as per direction of the officer-in-charge.	Each	15	45	675
55	8.42	Providing and stacking of Jatropha multifida (red colour) of height 60-75 cm. multibranched in p.bag of size 25 cm as per direction of the officer-in-charge.	Each	15	45	675
					<b>Total</b>	<b>2923632.70</b>
<b>Schedule</b>	Schedule A1-N.S ITEM(Ward Robe, Doors & other Hardware works)					
<b>Item- 01</b>	N.S ITEM)(Ward Robe, Doors & other Hardware works					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supplying, Manufacturing and installing Customized wardrobe in the space available (Height = 2600 ±250mm; Width = 1200 to 2100mm; depth = 600 ±200mm) as per drawings/design of Railway, with following description: (i) Ply board 18 mm thick, 'Century' or 'Green' water-proof for carcass/frame and shutters; (ii) Ply board 6 mm thick, 'Century' or 'Green' water-proof for back wall cover (iii) Sunmica 0.8mm thick laminate, 'Safe decor' or 'Timex' for finishing entire inner surface of walling/partition. (iv) Sunmica 1.0mm thick laminate, 'Safe decor' or 'Timex' for front exterior finish. (v) Drawers with Telescopic side channels 20" long (vi) One S. S. pipe (20mm dia, 900mm or longer as per space) for hangers. (vii) 'Hettich' or 'Ebco' make S. S. finish handles (200mm for main door shutters, 125mm for small shutters) Drawer knob/Deep handle, Concealed hinge etc. (viii) Other hardware viz. Aluminum Tower bolt 250mm, screws and other fittings as per requirement. (ix) Edge binding with 22mm wide PVC edge binding tape (Rehau make).	Sqm	700.00	15162.74	10613918.00



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2	2	Providing 150mm wide wall-paneling outer border of above wardrobe with Ply board 18 mm thick, 'Century' or 'Green' water-proof and Sunmica 1.0mm thick 'Safedecor' or 'Timex', including all fittings & consumables etc.	Sqm	250.00	5584.82	1396205.00
3	3	Supplying, Manufacturing and installing Customized Kitchen cabinet in the space available (Depth of cabinet = 550 ±100mm), as per drawing and design provided by Railway: (i) Ply board 18 mm thick, 'Century' or 'Green' water-proof for carcass/frame and shutters; (ii) Sunmica 0.8mm thick laminate, 'Safedecor' or 'Timex' for finishing entire inner surface of walling/partition. (iii) Sunmica 1.0mm thick laminate, 'Safedecor' or 'Timex' for front exterior finish. (iv) Drawers with Telescopic side channels 20" long (v) 'Hettich' or 'Ebco' make S. S. finish handles (200mm for main door shutters and drawers), Concealed hinge etc. (vi) Other hardware viz. screws and other fittings as per requirement.	Sqm	154.00	14601.93	2248697.22
					<b>Total</b>	<b>14258820.22</b>
<b>Schedule</b>	Schedule A2-(N.S ITEM) (Fire Fighting works)					
<b>Item- 01</b>	(N.S ITEM) (Fire Fighting works)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supplying, laying, jointing, testing and commissioning of heavy gauge M.S pipes as per relevant IS: 1239 with special accessories like trees, elbows, flanged joints rubber insertion nuts & bolts including earth work excavating and treating under ground pipe with two coats of tarcoal hot enamel paint and wrapping with bituminised 4mm th COATAK reinforced fiber glass tissue complete in all respects as per ISI 10221. (Underground).1.(a)- 100 mm dia	Metre	89.00	1755.50	156239.50
2	2	Providing and fixing gun metal single headed hydrants with flanged inlet with 63mm female instantaneous outlet complete with male blank caps. Chains conforming to IS:5290 type A with stainless steel orifice plate to keep the pressure not more than 3.5 kg/sq.cm at any point.	Each	30.00	9508.92	285267.60
3	3	Providing 63mm (2 ½)" dia 30m long reinforced rubber lined hose pipe conforming to IS:636-1992 Part-II with gunmetal male & female coupling wire wound with pipe as required.	Each	20.00	10971.85	219437.00
4	4	Providing and fixing first aid hose reel full swinging type with 40 meter long 20mm dia rubber lined Dunlop pipe with shut off nozzle of 5mm dia. The hose reel conforming to IS:884-1969 and hose tubing to IS:1532 complete as required including 25mm dia M.S. pipe connection from riser to hose reel with all sockets, nipples, elbows and 25mm dia full way valve as required.	Each	35.00	23449.03	820716.05
5	5	Providing and fixing gunmetal branch pipe with 20mm dia nozzle conforming to IS:903. Suitable for installation connections to hose coupling etc. as required.	Each	35.00	5412.77	189446.95
6	6	Providing and fixing weather proof standard hose cabinet (900mmx600mmx400mm) out door type suitable for accommodating yard hydrants made of 1.5mm thick M.S. sheet having central opening glazed door including necessary locking arrangements, painting one coat of primer and two coats of postal red enamel paint suitable for housing 2 Nos. canvas hose pipe and branch pipe. (The cabinet shall be floor mounted on suitable raised platform). The shutters are to be lockable type. The works "hose cabinet" to be painted on the box.	Each	25.00	6144.24	153606.00
7	7	Supplying and installing cylindrical type air vessel of 250mm dia, 1.2m high fabricated out of 8mm thick MS plate suitable for 7kg/sqcm. working pressure complete with air release valve, safety valve, pressure gauge etc. as required. The air vessel shall be continuous welded construction and painted with two coats of Postal red enamel outside over a coat of primer and Epoxy paint inside.	Each	30.00	28765.26	862957.80
8	8	Providing and fixing C.I. foot valves including nuts, bolts, washers 3mm thick insertion rubber gasket including matching flanges table "E" in all respects.8.(a)-100mm dia	Each	8.00	10647.08	85176.64
9	9	Providing and fixing 25mm dia gunmetal full way valve heavy quality tested to 21kg/cm2.	Each	7.00	849.94	5949.58
10	10	Supplying, fitting & commissioning manually operated fire alarm system with Agni or similar make 8 zone fire alarm main indicator control panel, ETRL tested, 8 fire hooters & manual call points, all fittings like wiring material, PVC pipe, bend, Tee, Sidel etc complete all respect.	Set	2.00	190880.97	381761.94

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11	11	Supplying, fixing, testing and commissioning of butterfly valve PN 1.6 with Bronze/Gunmetal seal duly ISI marked complete with nuts, bolts, washers, gaskets, confirming to IS 13095 of size 100/150 mm dia.	Each	8.00	13166.22	105329.76
12	12	Supplying, fitting and fixing of 'ABC type' Fire Extinguisher as per IS: 15683, ISI marked, of capacity 04 Kg, Brand-SUMAX/ FIRONIL/VINTEX/FIRE FITE, as per manufacturer's recommendation or as per direction of site-in-charge.	Each	15.00	6251.22	93768.30
13	13	Supplying of electric driven fire pump suitable for automatic operation consisting of the following (as per CPWD specification Part - V - 1985 for Fire Fighting and its amendments).13.(a)-Fire pump (Submersible Mono block) Pump set with bronze impeller, CI casing centrifugal having a capacity of 2280 ltrs/minute against a total head of 50 meters etc.	Set	8.00	114662.50	917300.00
14	14	Installation, testing and commissioning of item above.	Set	8.00	9680.70	77445.60
15	15	Supplying of diesel engine driven fire pump suitable for automatic operation consisting of the following (as per CPWD specifications Part-V-1985) Vibration dumping arrangement with cushy foot mounting as required.	Set	3.00	346230.25	1038690.75
16	16	Installation, testing and commissioning of item 2 above including making foundation as per manufacturer's recommendation	Set	3.00	19361.40	58084.20
17	17	Supplying of electric driven fire pump suitable for automatic operation consisting of the following (as per CPWD specification Part - V - 1985 for Fire Fighting and its amendments).Fluid light leakproof motor suitable for operation on 320/440V,AC supply filled with oil/water for effective cooling with synchronous speed 3000/2900 RPM and flexible coupling .The pump motor should conform to IS:325-1978	Set	7.00	53140.51	371983.57
18	18	Installation, testing and commissioning of item 4 above including making foundation as per manufacturer's recommendation	Set	8.00	5163.04	41304.32
19	19	Supply, installation, testing and commissioning of main control panel fabricated from 2mm th. MS sheet (powder coated) installed in hasement for main pump, jockey pump and diesel engine driven pump comprising of one TP & NL 100 amp MCCB etc.	Set	7.00	184000.00	1288000.00
20	20	Supply, installation, testing and commissioning of main control panel fabricated from 2mm th. etc.	Set	3.00	11500.00	34500.00
21	21	Supplying, laying jointing, testing and commissioning of heavy guage M.S. pipes 100 mm dia as per relevant IS: 1239 with special accessories like tees, elbows, flanged joints, rubber insertion nuts & bolts etc.	Metre	20.00	919.89	18397.80
22	22	Providing and fixing gun metal single headed bydrants with flanged nlet with 63mm female instantaneous outlet complete with male blank caps, chains conforming to IS: 5290 type A with stainless steel orifice plate to keep the pressure not more than 3.5 kg/sq cm at any point.	Each	4.00	3989.63	15958.52
23	23	Providing 63mm (2.5)" dia 15m long reinforced rubber lined hose pipe conforming to IS: 636-1992 Part-II with gunmetal male & female coupling wire wound with pipe as required.	Each	15.00	3444.76	51671.40
24	24	Providing and fixing first aid hose reel full swinging type with 40 meter long 20mm dia rubber lined Dunlop pipe with shut off nozzle of 5mm dia. The hose reel conforming to IS: 884-1969 and hose tubing to IS: 1532 complete as required.	Each	7.00	16029.75	112208.25
25	25	Providing and fixing gunmetal branch pipe with 20mm dia nozzle conforming to IS: 903. Suitable for installation connection to hose coupling etc. as required.	Each	8.00	1119.24	8953.92
26	26	Providing and fixing the 150mm dia four way fire brigade connection with flange joints complete	Each	5.00	12669.14	63345.70
27	27	Providing and fixing weather proof standard hose cabinet (900mm x 600mm x 400mm ) out door type suitable for accommodating yard hydrants made of 1.5mm thick M.S. sheet having central opening mazed door including necessary locking arrangements etc.	Each	8.00	2553.33	20426.64
28	28	Supplying and installing cylindrical type air vessel of 250mm dia, 1.2m high fabricated out of 8mm thick MS plate suitable for 7kg/sqcm. Working pressure complete with air release valve, safety valve, pressure guage etc.	Each	6.00	19366.17	116197.02
29	29	Providing nd fixing C.I. double flanged sluice valves rated to PN 1.6 with C.I. Wheel bolts, nuts, washers 3mm thick insertion rubber gasket including matching flanges table E, complete.29.(a)- 100mm dia	Each	20.00	13944.12	278882.40



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30	30	Providing and fixing C.I. foot valves including nuts, bolts, mm thick compressed asbestos gasket complete and companion flange in all respects.30.(a)- 100mm dia	Each	35.00	7278.77	254756.95
31	31	Providing and fixing 25mm dia gunmetal full way valve heavy quality tested to 21 kg/cm2	Each	30.00	581.03	17430.90
32	32	Constructing masonry chamber 60x60x75 cm, inside with 75 class designation brick work in cement mortar 1:5 (1 cement 5 fine sand) for sluice valve, with C.I. surface box 100mm top diameter, 160mm bottom diameter and 180mm 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) etc.32.(a)- With F.P.S. bricks	Each	16.00	2931.45	46903.20
33	33	Providing & Fixing MS. Black steel pipe (Medium Class-B) Conforming to IS 1239/3589 with cutting, fabrication, welding etc at 1 proper location.Including cutting and making good the wall, floor, ceiling or any surface etc Cost of accessoriws and primer & painting will be paid separately. a) 80mm dia.	Metre	120.00	2003.00	240360.00
34	34	Providing & Fixing MS. Black steel pipe (Medium Class-B) Conforming to IS 1239/3589 with cutting, fabrication, welding etc at 1 proper location. Including cutting and making good the wall, floor, ceiling or any surface etc Cost of accessoriws and primer & painting will be paid separately.b)50 mmdia	Metre	15.00	1230.00	18450.00
35	35	Providing & Fixing MS. Black steel pipe (Medium Class-B) Conforming to 15 1239/3589 with cutting, fabrication, welding etc at 1 proper location.Including cutting and making good the wall, floor, ceiling or any surface etc Cost of accessoriws and primer & painting will be paid separately. c) 25mm dia	Metre	10.00	694.00	6940.00
36	36	CI Butterfly valve (wafer type) with counter flange & nut bolts. 80 mm dia	Each	5.00	5579.00	27895.00
37	37	CI NRV valve (wafer type) with counter flange & nut 3 bolts	Each	5.00	5007.00	25035.00
38	38	MS Band 80mm dia	Each	5.00	959.00	4795.00
39	39	MS Band 50mm dia	Each	5.00	601.00	3005.00
40	40	Ms Tie Rod & Clamp	Each	5.00	858.00	4290.00
41	41	MS Socket 25 mm	Each	5.00	186.00	930.00
42	42	MS Elbow 25mm	Each	5.00	186.00	930.00
43	43	Providing & fixing quartzoid bulb pendant spinkler 68 C along with necessary attachment.	Each	5.00	429.00	2145.00
44	44	Monoblock pump (Kiloskar make end suction model cphm 32/30 in ci-casing & ci-impeller, m seal fitted, 45 c8- shaft sleeve-ss440 dully coupled with lubi/crompton make elect motor 12.5HP/5.5 KW 900ipm, 48 head 3 phase, tefc type on ms fabricated common base frame coupling with duard with avm pads Havels Make panel with voltmeter+ pressure switch and wire including of installation of pump etc.complete job	Each	5.00	218812.00	1094060.00
					<b>Total</b>	<b>9620933.26</b>

<b>Schedule</b>	Schedule A3-(Special type 'Bathroom Accessories')					
<b>Item- 01</b>	(Special type 'Bathroom Accessories')					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Providing and fixing Central Hole Basin Mixer with regular spout without Popup Waste system with 450mm long braided houses Jaquar Model FLR-5167NB or similar.	Each	10.00	3936.88	39368.80
2	2	Providing and fixing Bib Cock (Straight line Model) with wall flange Jaquar Model FLR-5047N or similar.	Each	88.00	1472.20	129553.60
3	3	Providing and fixing Sink Mixer with regular swinging spout (wall mounted model) with connecting legs & wall flanges Jaquar Model FLR-5309N or similar.	Each	5.00	4139.03	20695.15
4	4	Providing and fixing Overhead shower size 150mm dia. Jaquar Model OHS-CHR-1603 or similar.	Each	82.00	4187.84	343402.88
5	5	Providing and fixing Shower Arm 20mm dia, 300mm long Jaquar Model SHA-479L300 or similar.	Each	82.00	1181.07	96847.74
6	6	Providing and fixing Hand shower 24mm round shape single flow Jaquar Model HSH-5537N or similar.	Each	45.00	1181.07	53148.15
7	7	Providing and fixing Flexible tube 12mm dia, 1.5m long with nuts Jaquar Model SHA-549D12 or similar.	Each	60.00	1574.75	94485.00
8	8	Providing and fixing Premium wall bracket for hand shower, 35mm dia& 100mm long round shape Jaquar Model SHA-555 or similar.	Each	12.00	656.15	7873.80

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9	9	Providing and fixing Hand shower (Health faucet) with 8mm dia, 1m long flexible tube & wall hook Jaquar Model ALD-573 or similar.	Each	6.00	5339.99	32039.94
10	10	Providing and fixing Towel rack 600mm long with lower hangers Jaquar Model AKP-35781P or similar.	Each	88.00	4060.34	357309.92
11	11	Providing and fixing Soap Dish Holder Jaquar Model AKP-35731P or similar.	Each	28.00	662.35	18545.80
12	12	Providing and fixing Table top Wash Basin size 165 x 580 x 450mm Jaquar Model FLS-WHT-0575 or similar.	Each	12.00	9172.94	110075.28
13	13	Providing and fixing Corner Glass shelf with brackets at 6 Jaquormodle no.ACN-1173 or similar.	Each	90.00	1271.12	114400.80
					<b>Total</b>	<b>1417746.86</b>
<b>Schedule</b>		Schedule A4-(Special type of doors, Glazed wall paneling etc.)				
<b>Item- 01</b>		(Special type of doors, Glazed wall paneling etc.)				
<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	Supplying, fabricating & installation of 12m thick toughened glass wall (make SAINT-GOBAIN/MODI) (50% etched, if required) with door arrangement/partition wall wherever required as per drawing with necessary imported patch fittings for fixing toughened glass to masonry/concrete/glass at top, bottom & side with patch pivot, floors spring, imported handle of approved quality & silicon sealant, necessary fitting fixture & other hardware. The rate includes cost of all materials, labour, tools & plants and all lead & lift taxes etc. complete in all respects as per direction of the Engineer-in-Charge.	Sqm	275.00	4715.23	1296688.25
					<b>Total</b>	<b>1296688.25</b>
<b>Schedule</b>		Schedule A5-(Running track.)				
<b>Item- 01</b>		(Running track.)				
<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	Providing and laying 15mm providing and fixing EDPM safety flooring puce on path way. (9 mm SBR Bottom layer & 6mm EDPM top layer) manufactured under quality management system of ISO 9001:2015, as per IAAF specification, having polymer content minimum 22%, High UV rating minimum 3 to 5 on greyscale, VOC less than 3.0 g/L, combustibility less than 40mm/min, elongation at break >500%, standard grain size 1.0-3.5mm and laying in three layers. REACH/SVHC & ROHS COMPLIANT, ANTIMICROBIAL & ANTIFUNGAL Tested. Material (a) 1st Layer of Polyurethane based primer coating. (b) IInd layer of 9mm Black Rubber base particle size mix with minimum 14% single component PU base binder. Styrene butadiene rubber/synthetic rubber. (c) IIIRD Layer of 6mm EDPM granules chemically bonded with MDI 18-20% single component of DiphenyImethaneDiscocyanateandparatfinic Oil etc. Design on base top layer by specialized team of installers, according to the specification of approved materials and shade as per the direction of engineer - in-charge(Guarantee Period Five year).	Sqm	3465.00	2282.81	7909936.65
					<b>Total</b>	<b>7909936.65</b>
<b>Schedule</b>		Schedule B1-Earth work				
<b>Item- 01</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>
		Earthwork in filling in embankment, guide bunds, around buried type abutments, bridge gaps, trolley refuges, platforms etc. with contractor's own earth conforming to Soil Quality Class SQ1/SQ2/SQ3, after preparation of foundations as applicable, benching in existing banks wherever required, spreading in layers with motor grader, bringing the moisture content to OMC, mechanical compaction to specified density and dressing of bank to final profile as per RDSO Specifications: RDSO/2020/GE: IRS-0004 with latest correction slips. Note: 1) Foundation preparation, Benching including additional earthwork on account of this, wherever required, shall be paid extra under relevant schedule item for benching. 2) Payment for Earthwork under this item shall be made based on the cross section measurements calculated (i) with original ground profile of existing bank based on initial ground levels before doing benching and (ii) final profile of the bank worked out with final levels as per prevailing guidelines.				
1	011031	Using Soil Class SQ1	cum	72186.00	298.55	21551130.30
					<b>Total</b>	<b>21551130.30</b>

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<b>Schedule</b>	Schedule D1-CARRIAGE OF MATERIAL					
<b>Item- 01</b>	CARRIAGE OF MATERIAL					
<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>
	1.0	CARRIAGE OF MATERIALS				
	1.1	By Mechanical Transport including loading,unloading and stacking				
1	1.1.18	Disposal of moorum/building rubbish/ malba/ similar unserviceable, dismantled or waste material by mechanical transport including loading, transporting, unloading to approved municipal dumping ground for lead upto 10 km for all lifts, complete as per directions of Engineer-in-charge.	cum	900	411.3	370170
					<b>Total</b>	<b>370170.00</b>
<b>Schedule</b>	Schedule D2-Earth work					
<b>Item- 01</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>
	2.0	EARTH WORK				
	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	4187	205.45	860219.15
	2.13	Excavating trenches of required width for pipes, cables, etc, including excavation for sockets, depth upto 1.5 m, including getting out the excavated materials, returning the soil as required in layers not exceeding 20 cm in depth, including consolidating each deposited layers by ramming, watering etc., stacking serviceable material for measurements and disposal of unserviceable material as directed, within a lead of 50 m :				
	2.13.1	Ordinary rock :				
2	2.13.1.3	Pipes, cables exceeding 300 mm dia but not exceeding 600 mm dia	Metre	400	1074	429600
3	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	2938	368.65	1083093.7
4	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	1977	2161.2	4272692.4
	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.				
5	2.28.1	All kinds of soil	Sqm	654	28.15	18410.1
6	2.31	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.	Sqm	2822	14.5	40919
	2.35	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
	2.35.3	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor:				
7	2.35.3.1	With Chlorpyrifos E.C. 20% with 1% concentration	Sqm	2735	256.15	700570.25
					<b>Total</b>	<b>7405504.60</b>
<b>Schedule</b>	Schedule D3-Masonry Work					
<b>Item- 1</b>	Masonry 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>
	6.0	MASONRY WORK				
	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
1	6.1.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	316	6882	2174712
2	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	240	6658.25	1597980
	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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3	6.4.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	70	8512.1	595847
4	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	2314	8288.35	19179241.9
	6.12S	HALF BRICK MASONRY				
	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.				
5	6.13.1	Cement mortar 1:3 (1 cement :3 coarse sand)	Sqm	105	1043.1	109525.5
					<b>Total</b>	<b>23657306.40</b>
<b>Schedule</b>	Schedule D4-cement concrete, Reinforced cement concrete, Flooring,Roofing, Finishing,Dismantling & Demolishing.					
<b>Item- 01</b>	cement concrete, Reinforced cement concrete, Flooring,Roofing, Finishing,Dismantling & Demolishing.					
<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>
	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 :				
1	4.1.2	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	75	7783.65	583773.75
2	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	604	7365.15	4448550.6
	4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :				
3	4.3.1	Foundations, footings, bases for columns	Sqm	5350	307.95	1647532.5
	4.5S	CEMENT CONCRETE PRECAST				
	4.5	Providing and fixing up to floor five level precast cement concrete string or lacing courses, copings, bed plates, anchor blocks, plain window sills, shelves, louvers, steps, stair cases, etc., including hoisting and setting in position with cement mortar 1:3 (1 Cement : 3 coarse sand), cost of required Centering complete.				
4	4.5.1	1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources: 3 graded stone aggregate 20mm nominal size derived from natural sources)	cum	95	9277.75	881386.25
	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.				
5	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	255	8130.65	2073315.75
	5.0	REINFORCED CEMENT CONCRETE				
	5.1S	CAST IN SITU				
	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
6	5.1.2	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	405	8364.2	3387501
	5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :				
7	5.2.2	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	949	10185.05	9665612.45
8	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	115	10719.3	1232719.5
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				

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9	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	12723	608.35	7740037.05
10	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	17076	804.25	13733373
	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).				
11	5.11.1	Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)	Sqm	5262	319.25	1679893.5
	5.12S	PRE-CAST RCC				
12	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	10	9673.5	96735
	5.33S	DESIGN MIX CONCRETE				
	5.33	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. 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	All works upto plinth level				
13	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	1002	8683.8	8701167.6
14	5.33.1.2	Concrete of M30 grade with minimum cement content of 350 kg /cum	cum	50	8825.35	441267.5
	5.33.2	All works above plinth level upto floor V level				
15	5.33.2.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	3625	10306.2	37359975
16	5.33.2.2	Concrete of M30 grade with minimum cement content of 350 kg /cum	cum	39	10477.75	408632.25
	11.0	FLOORING				
17	11.2	Dry brick on edge flooring in required pattern with bricks of class designation 7.5 on a bed of 12 mm mud mortar, including filling joints with local sand, with common burnt clay non modular bricks.	Sqm	3665	733.3	2687544.5
18	11.7	Cement concrete pavement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including finishing complete.	cum	225	7958.65	1790696.25
	11.16S	TILE FLOORING				
	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).				
19	11.20.1	Light shade pigment using white cement	Sqm	350	1233.05	431567.5
	11.26S	KOTA STONE FLOORING				
	11.26	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :				
20	11.26.1	25 mm thick	Sqm	360	1706.6	614376
	11.41S	VITRIFIED FLOOR TILES				

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	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.2	Glazed vitrified floor tiles polished finish of size				
21	11.41A.2.1	Size of Tile 600 x 600 mm	Sqm	150	1359.2	203880
22	11.41A.2.3	Size of Tile 800 x 800 mm	Sqm	150	1544.2	231630
23	11.41A.2.5	Size of Tile 1200 x 1200 mm	Sqm	8650	2298.45	19881592.5
	11.41A.3	Glazed Vitrified tiles Matt/Antiskid finish of size				
24	11.41A.3.1	Size of Tile 600 x 600 mm	Sqm	160	1311.05	209768
25	11.41A.3.3	Size of Tile 800 x 800 mm	Sqm	70	1544.2	108094
26	11.41A.3.5	Size of Tile 1200 x 1200 mm	Sqm	125	2572.75	321593.75
	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.				
27	11.56.1	Polished Granite stone slab colour of Black, Cherry/Ruby Red or equivalent	Sqm	50	3908.8	195440
28	11.56.2	Polished Granite stone slab of all colour and texture except Black, Cherry/Ruby Red	Sqm	10	2677.9	26779
	12.0	ROOFING				
	12.24S	CEILING				
	12.31	Providing 10 mm thick plaster of Paris (gypsum anhydrous) ceiling up to a height of 5 m above floor level, over first class kail wood strips 25x6 mm with 10 mm gap in between and reinforced with rabbit wire mesh fixed to wooden frame (frame work to be paid separately):				
29	12.31.1	Flat surfaces	Sqm	750	1421.25	1065937.5
30	12.31.2	Curved surfaces	Sqm	20	1708.05	34161
31	12.32	Extra for sunk or raised mouldings in the plaster of Paris (Gypsum anhydrous) ceiling.	Sqm	10	485.75	4857.5
	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.				
32	12.41.1	75 mm diameter	Metre	60	213	12780
33	12.41.2	110 mm diameter	Metre	200	319.75	63950
	12.42	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.				
	12.42.5	Bend 87.5 degrees				
34	12.42.5.2	110 mm bend	Each	79	132	10428



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	12.47	Providing & fixing UV stabilised fiberglass reinforced plastic sheet roofing up to any pitch, including fixing with polymer coated 'J' or 'L' hooks, bolts & nuts 8mm dia. G.I plain/bitumen washers complete but excluding the cost of purlins, rafters, trusses etc. The sheets shall be manufactured out of 2400 TEX panel rovigs incorporating minimum 0.3% ultra-violet stabiliser in resin system under approximately 2400 psi and hot cured. They shall be of uniform pigmentation and thickness without air pockets and shall conform to IS 10192 and IS 12866. The sheets shall be opaque or translucent, clear or pigmented, textured or smooth as specified.				
35	12.47.2	2 mm thick flat	Sqm	350	1048.5	366975
36	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	130	671.55	87301.5
	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 :				
37	12.51.1	Ridges plain (500 - 600mm)	Metre	100	450.6	45060
38	12.51.6	Gutter (600 mm over all girth)	Metre	60	1110.6	66636
	12.58	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on interlocking 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 galvanized 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.				
39	12.58.1	8 mm thick fully perforated calcium silicate board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process to give stable crystalline structure with minimum compressive strength 225 kg/ sq. cm, bending strength 100 kg/sq. cm , of size 595x595 mm, having perforation of dia. 10 mm with minimum perforated area 18 % with non woven tissue on the back side, having an NRC ( Noise Reduction Coefficient) of 0.85, with 50 mm thick rockwool of 48 kg /cum backing.	Sqm	350	1851.5	648025
	13.0	<b>FINISHING</b>				
	13.4S	<b>CEMENT PLASTER (IN COARSE SAND)</b>				
	13.4	<b>12 mm cement plaster of mix :</b>				
40	13.4.1	1:4 (1 cement: 4 coarse sand)	Sqm	220	307.25	67595
41	13.4.2	1:6 (1 cement: 6 coarse sand)	Sqm	29172	294.35	8586778.2
	13.16S	<b>6MM CEMENT PLASTER</b>				

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	13.16	6 mm cement plaster of mix :				
42	13.16.1	1:3 (1 cement : 3 fine sand)	Sqm	9120	253.05	2307816
43	13.18	Neat cement punning.	Sqm	4569	67.8	309778.2
	13.20S	PEBBLE DASH PLASTER				
44	13.20	Pebble dash plaster upto 10 m height above ground level with a mixture of washed pebble or crushed stone 6 mm to 12.5 mm nominal size, dashed over and including fresh plaster in two layers under layer 12 mm cement plaster 1:4 (1 cement : 4 coarse sand) and top layer 10 mm cement plaster with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 10% finely grounded hydrated lime by volume of cement.	Sqm	150	705.9	105885
45	13.22	Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof.	Sqm	1000	72.8	72800
	13.25	Extra for plastering:				
46	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	32342	214.3	6930890.6
	13.44S	EXTERIOR FINISHING				
	13.45	Finishing walls with textured exterior paint of required shade :				
47	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	3000	245	735000
	13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
48	13.48.1	Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm	Sqm	30620	158.95	4867049
49	13.48.2	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture	Sqm	40	144.9	5796
50	13.48.3	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture	Sqm	1460	140.05	204473
	13.60	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :				
51	13.60.1	Two or more coats on new work	Sqm	450	137.85	62032.5
	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
52	13.61.1	Two or more coats on new work	Sqm	125	131.45	16431.25
	13.85	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound ) content.				
53	13.85.1	With ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 grams/ litre	Sqm	125	61.45	7681.25
	13.90	Distempering with 1st quality acrylic distemper (Ready mix) having VOC content less than 50 grams/ litre of approved brand and manufacture to give an even shade :				
54	13.90.1	Old work (one or more coats)	Sqm	1300	56.8	73840
55	13.91	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	Sqm	100	20.85	2085
	13.98	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade:				
56	13.98.1	One or more coats on old work	Sqm	5300	90.85	481505
	15.0	DISMANTLING AND DEMOLISHING				
	15.2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.				
57	15.2.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	cum	60	2007.1	120426
58	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	105	2928.1	307450.5

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	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.				
59	15.7.4	In cement mortar	cum	600	1698.45	1019070
	15.13	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead :				
60	15.13.1	Of area 3 sq. metres and below	Each	205	118.3	24251.5
					<b>Total</b>	<b>149499179.70</b>
<b>Schedule</b>	Schedule D5-Cladding Work,Wood and PVC work,Repair to Building.					
<b>Item- 01</b>	Cladding Work,Wood and PVC work,Repair to Building.					
<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>
	8.0	CLADDING WORK				
	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.				
	8.2.2	Granite stone slab of colour black, Cherry/Ruby red				
1	8.2.2.1	Area of slab upto 0.50 sqm	Sqm	4	4679.35	18717.4
2	8.2.2.2	Area of slab over 0.50 sqm	Sqm	7	4425.35	30977.45
	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.				
3	8.3.2	Granite work	Metre	12	418.85	5026.2
	8.9	Stone tile (polished) work for wall lining over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and cement slurry @ 3.3 kg/sqm including pointing in white cement complete.				
	8.10	Providing and fixing 75mm high, 50mm deep and 18mm thick stone slab table rubbed, edges rounded and polished, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth.				
4	8.10.2	Granite Stone of approved shade	Sqm	30	3542.85	106285.5
	8.20S	STONE WORK DRY CLADDING				
5	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	80	1063.45	85076

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6	8.32	Designing, fabricating, testing, installing and fixing in position Curtain Wall with Aluminium Composite Panel Cladding, with open grooves for linear as well as curvilinear portions of the building , for all heights and all levels etc. including: (a) Structural analysis & design and preparation of shop drawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it watertight including checking of all the structural and functional design. (b) Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metallic colour of approved shades made out of 4mm thick aluminium composite panel material consisting of 3mm thick FR grade mineral core sandwiched between two Aluminium sheets (each 0.5mm thick). The aluminium composite panel cladding sheet shall be coil coated, with Kynar 500 based PVDF / Lumiflon based fluoropolymer resin coating of approved colour and shade on face # 1 and polymer (Service) coating on face # 2 as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicone sealant, backer rods etc. (c) The fastening brackets of Aluminium alloy 6005 T5 / MS with Hot Dip Galvanised with serrations and serrated washers to arrest the wind load movement, fasteners, SS 316 Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all complete required to perform as per specification and drawing The item includes cost of all material & labour component, the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working curtain wall with aluminium composite panel cladding, cleaning and protection of the curtain wall with aluminium composite panel cladding till the handing over of the building for occupation. Base frame work for ACP cladding is payable under the relevant aluminium item.s The Contractor shall provide curtain wall with aluminium composite panel cladding, having all the performance characteristics all complete , as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer-in-Charge. However, for the purpose of payment, only the actual area on the external face of the curtain wall with Aluminum Composite Panel Cladding (including width of groove) shall be measured in sqm. up to two decimal places.	Sqm	10	4474.2	44742
	9.0	WOOD AND P.V.C. WORK				
	9.15	FRAMES AND TRUSSES				
	9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).				
7	9.1.3	Kiln seasoned and chemically treated hollock wood	cum	11.5	74199.7	853296.55
	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	Float glass panes				
8	9.7.7.2	5.0 mm thick glass panes (weight not less than 12.50 kg/sqm).	Sqm	60	2231.2	133872
9	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	1000	1521.6	1521600
	9.16	Providing and fixing 25 mm thick shutters for cup board etc. :				
	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.				
10	9.20.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	455	3086.1	1404175.5
	9.40S	MISCELLANEOUS-WOOD WORK				

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	9.40	Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete :				
	9.40.1	2nd class teak wood				
11	9.40.1.1	50x12 mm	Metre	1100	191.55	210705
	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 :				
12	9.46.2	20 mm dia	Metre	540	375.25	202635
	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.				
13	9.48.1	Fixed to steel windows by welding	Kg	20060	181	3630860
	9.70S	STAINLESS STEEL FITTINGS				
	9.70	Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc. complete :				
14	9.70.1	125x64x1.90 mm	Each	1281	95.5	122335.5
	9.72S	BRASS FITTINGS				
	9.74	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete :				
15	9.74.2	200x10 mm	Each	212	300.55	63716.6
16	9.82	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete.	Each	212	109.6	23235.2
17	9.84	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	Each	212	856.3	181535.6
	9.88S	CHROMIUM PLATED BRASS FITTINGS				
18	9.88	Providing and fixing chromium plated brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.	Each	212	817.5	173310
	9.90	Providing and fixing special quality chromium plated brass cupboard locks with six levers of approved quality including necessary screws etc. complete.				
19	9.90.2	Size 50 mm	Each	185	286.3	52965.5
	9.105S	GYPSUM BOARD PARTITIONS				
	9.120	Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2 ) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawing.				
20	9.120.1	30 mm thick plain PVC door shutters	Sqm	176	2455.1	432097.6
	9.134	Providing and fixing wire gauge shutters using stainless steel grade 304 wire gauge with wire of dia 0.5 mm and average width of aperture 1.4 mm in both directions for doors, windows and clerestory windows with necessary screws :				

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21	9.141	Providing and fixing PVC Door Frame of size 50x47 mm with a wall thickness of 5 mm (+/- 0.2 mm), made out of single piece extruded PVC profile, with mitred cut joints and joint with 2 nos of PVC bracket of size 190 mm x 100 mm long arms of cross section size 35 x 15 mm & self driven self tapping screws, the vertical door profiles to be reinforced with 40x20 mm M.S. rectangular tube of 0.8 mm , including providing EPDM rubber gasket weather seal throughout the frame, including jointing 5 mm PVC frame strip with PVC solvent cement on the back of the profile. The door frame to be fixed to the wall using 8 x100 mm long anchor fasteners complete, all as per manufacturer's specification and direction of Engineer -in-charge.	Metre	440	462.25	203390
	9.147D	Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 +/- 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes, wire mesh and silicon sealant shall be paid separately). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.				
22	9.147D.2	Three track three panels sliding window with fly proof SS wire mesh (Two nos. glazed & one no. wire mesh panels) made of (small series) frame 92 x 44 mm & sash 32 x 60 mm both having wall thickness of 1.9 +/- 0.2 mm and single glazing bead of appropriate dimension (Area of window upto 1.75 sqm).	Sqm	380	10030.3	3811514
	14.0	<b>REPAIRS TO BUILDING</b>				
	14.1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.				
23	14.1.2	With cement mortar 1:4 (1cement: 4 coarse sand)	Sqm	200	478	95600
	14.2	Fixing chowkhats in existing opening including embedding chowkhats in floors or walls cutting masonry for holdfasts, embedding hold fasts in cement concrete blocks of size 15 x 10 x 10 cm with cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size), painting two coats of approved wood preservative to sides of chowkhats and making good the damages to walls and floors as required complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.				
24	14.2.1	Door chowkhats	Each	220	1505.3	331166
25	14.2.2	Window chowkhats	Each	5	948.05	4740.25
				<b>Total</b>		<b>13743574.85</b>
<b>Schedule</b> Schedule D6-Steel work,Aluminium work, Structural glazing Aluminium composite panel.						
<b>Item- 01</b> Steel work,Aluminium work, Structural glazing Aluminium composite panel.						
<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>
	10.0	<b>STEEL WORK</b>				
1	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	26500	111.95	2966675



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2	10.3	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	Sqm	14	9397.35	131562.9
	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.				
3	10.26.1	M.S. tube	Kg	150	157.15	23572.5
4	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	2800	612.25	1714300
5	10.31	Providing and fixing angle iron frames for doors, windows and ventilators of mild steel angle sections of size 35x35x5 mm, joints mitred and welded by angle iron 35x35x5 mm or 35x 5 mm flat pieces to the existing T-iron frame or to the wall with dash fastener, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer, all complete as per the direction of Engineer-In-charge.	Kg	1200	103.7	124440
	21.0	<b>ALUMINIUM WORK</b>				
	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				
6	21.1.1.3	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	Kg	150	474.7	71205
	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)				
7	21.1.2.3	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	Kg	150	573.4	86010
	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):				
8	21.3.1	With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	Sqm	150	1019.8	152970
	21.4	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge.				
9	21.4.1	With stainless steel cover plate minimum 1.25 mm thickness	Each	25	2448.85	61221.25

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10	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	150	4540.7	681105
	25.0	<b>STRUCTURAL GLAZING ALUMINIUM COMPOSITE PANEL</b>				
11	25.2	Designing, fabricating, testing, protection, installing and fixing in position semi (grid) unitized system of structural glazing (with open joints) for linear as well as curvilinear portions of the building for all heights and all levels, including: (a) Structural analysis & design and preparation of shop drawings for the specified design loads conforming to IS 875 part III (the system must passed the proof test at 1.5 times design wind pressure without any failure), including functional design of the aluminium sections for fixing glazing panels of various thicknesses, aluminium cleats, sleeves and splice plates etc. gaskets, screws, toggles, nuts, bolts, clamps etc., structural and weather silicone sealants, flashings, fire stop (barrier)-cum-smoke seals, microwave cured EPDM gaskets for water tightness, pressure equalisation & drainage and protection against fire hazard including: (b) Fabricating and supplying serrated M.S. hot dip galvanised/Aluminium alloy of 6005 T5 brackets of required sizes, sections and profiles etc. to accommodate 3 Dimensional movement for achieving perfect verticality and fixing structural glazing system rigidly to the RCC/masonry/structural steel framework of building structure using stainless steel anchor fasteners/ bolts, nylon separator to prevent bimetallic contacts with nuts and washers etc. of stainless steel grade 316, of the required capacity and in required numbers. (c) Providing and filling, two part pump filled, structural silicone sealant and one part weather silicone sealant compatible with the structural silicone sealant of required bite size in a clean and controlled factory / work shop environment, including double sided spacer tape, setting blocks and backer rod, all of approved grade, brand and manufacture, as per the approved sealant design, within and all around the perimeter for holding glass. (d) Providing and fixing in position flashings of solid aluminium sheet 1 mm thick and of sizes, shapes and profiles, as required as per the site conditions, to seal the gap between the building structure and all its interfaces with curtain glazing to make it watertight. (e) Making provision for drainage of moisture/water that enters the curtain glazing system to make it watertight, by incorporating principles of pressure equalization, providing suitable gutter profiles at bottom (if required), making necessary holes of required sizes and of required numbers etc complete. This item includes cost of all inputs of designing, labour for fabricating and installation of aluminium grid, installation of glazed units, T&P, scaffolding and other incidental charges including wastage etc, enabling temporary structures and services, cranes or cradles etc. as described above and as specified. The item includes the cost of getting all the structural and functional design including shop drawings checked by a structural designer, duly approved by Engineer-in-charge. The item also includes the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working structural glazing as specified, cleaning and protection till the handing over of the building for occupation. In the end, the Contractor shall provide a water tight structural glazing having all the performance characteristics etc. all complete as required, as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer-in-Charge.	Sqm	250	3111.35	777837.5

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12	25.3	Providing, assembling and supplying vision glass panels (IGUs) comprising of hermetically-sealed 6-12- 6 mm insulated glass (double glazed) vision panel units of size and shape as required and specified, comprising of an outer heat strengthened float glass 6mm thick, of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade, an inner Heat strengthened clear float glass 6mm thick, spacer tube 12mm wide, dessicants, including primary seal and secondary seal (structural silicone sealant) etc. all complete for the required performances, as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer-in-Charge. The IGUs shall be assembled in the factory/ workshop of the glass processor. (Payment for fixing of IGU Panels in the curtain glazing is included in cost of item No.25.2) For payment, only the actual area of glass on face # 1 of the glass panels (excluding the areas of the grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm. (i) Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, + 12mm Airgap + 6mm Heat Strengthened clear Glass of approved make having properties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient (0.25- 0.28) and U value of 3.0 to 3.3 W/m2 degree K etc. The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement.	Sqm	275	3377.5	928812.5
13	25.4	Extra for openable side / top hung vision glass panels (IGUs) including providing and supplying at site all accessories and hardwares for the openable panels as specified and of the approved make such as heavy duty stainless steel friction hinges, min 4 -point cremone locking sets with stainless steel plates, handles, buffers etc. including necessary stainless steel screws/ fasteners, nuts, bolts, washers etc. all complete as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer- in-Charge.	Sqm	10	3309.05	33090.5
14	25.5	Providing, fabricating and supplying shadow box of required size and shape, for fixing in the spandrel portion of the structural glazing, in linear as well as curvilinear portions of the building by providing semi -rigid, inorganic, non-combustible fibre glass wool insulation 50 mm thick, conforming to IS: 8183 and BS: 3958 Part 5. The insulation layer shall have facing (factory bonded on surface # 1 of the fibre glass insulation layer), of black non-woven fibre glass tissue of nominal thickness 0.5 mm and nominal mass not less than 60 gm /sqm, made of randomly oriented glass fibres distributed in a binder by a wet-lay process including fixing 1.5 mm thick solid aluminum sheet backing using, 6 mm thick cement board including SS rivets, nuts, bolts, washers etc complete.	Sqm	20	1954.3	39086
					<b>Total</b>	<b>7791888.15</b>
<b>Schedule</b> Schedule D7-Road Work.						
<b>Item- 01</b> Road 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>
	16.0	ROAD WORK				
	16.1S	ROADS				
1	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	10000	180.5	1805000
2	16.2	Extra for compaction of earth work in embankment under optimum moisture conditions to give at least 95% of the maximum dry density (proctor density).	cum	10000	20.55	205500
	16.3	Supplying and stacking at site.				
3	16.3.2	63 mm to 45 mm size stone aggregate	cum	1332	1624.5	2163834
4	16.3.3	53 mm to 22.4 mm size stone aggregate	cum	1332	1837.25	2447217

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5	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	2664	865.8	2306491.2
	16.6	Supplying, stacking and Spreading 6 mm thick red bajri, watering and rolling complete including preparation of the surface and rolling.				
6	16.6.1	With road roller/ hand roller	Sqm	4464	21.8	97315.2
	16.7	Brick edging in full brick width and half brick depth including excavation, refilling and disposal of surplus earth lead upto 50 metres.				
7	16.7.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Metre	2000	179.5	359000
	16.30S	PREMIX CARPET				
	16.30	Providing and applying tack coat using hot straight run bitumen of grade VG - 10, including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications :				
8	16.30.1	On W.B.M. @ 0.75 Kg / sqm	Sqm	6000	45.2	271200
	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.				
	16.33	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).				
9	16.33.2	With paving Asphalt grade VG - 30 with no solvent	Sqm	6000	254.8	1528800
	16.40S	SEAL COAT				
10	16.41	Providing and laying seal coat over prepared surface of road with bitumen heated in bitumen boiler fitted with the spray set spraying using 98 kg of bitumen of grade VG - 10 and blinding surface with 0.90 cum of stone aggregate of 6.7 mm size (Passing 11.2 mm sieve and retained on 2.36 mm sieve) per 100 sqm of road surface, including rolling and finishing with power road roller all complete.	Sqm	6000	106.1	636600
	16.42S	CONCRETE PAVEMENTS				
	16.43	Providing and laying design mix cement concrete of M-30 grade, in roads/ taxi tracks/ runways, using cement content as per design mix, using coarse sand and graded stone aggregate of 40 mm nominal size in appropriate proportions as per approved & 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).				
11	16.43.1	Cement concrete prepared with batch mixing machine	cum	1185	9492.9	11249086.5
	16.47S	PAINTING AREA/RUNWAY MARKING				
	16.47	Painting runway/taxi track/apron marking with adequate nos of coats to give uniform finish with road marking paint of superior make as approved by the Engineer-in-charge, i/c cleaning the surface of all dirt, scales, oil, grease and other foreign material etc. and lining out complete.				
12	16.47.1	New work (Two or more coats)	Sqm	200	158.5	31700
	16.49S	MISCELLANEOUS				

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13	16.53	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length ( total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	Metre	250	303.65	75912.5
14	16.61	Providing Retro-reflective regulatory sign board of size 900 mm dia meter made out of 2 mm thick aluminium sheet, face to be fully covered with high intensity encapsulated lens type retro -reflective sheeting as approved by Engineer-in-charge . Letter, symbols, borders etc. will be as per IRC - 67 with required colour scheme on the boards and with the high intensity grade A. The aluminium sheet to be riveted to M.S. frame of angle iron of size 40x40x4 mm. The boards will be fixed to 1 No. 50x50 mm square post made of M.S. angle 50x50x4 mm, 4 m long welded to the frame with adequate anti-theft arrangement .Sheet work to be painted with two or more coats of synthetic enamel paint over an under coat (primer) and back side of aluminium sheet to be painted with two or more coats of epoxy paint including appropriate priming coat complete in all respects as per direction of Engineer-in-charge.	Each	13	6281.6	81660.8
15	16.65	Providing and fixing post delineators made of ABS round body fitted with 2 nos 100 mm dia high reflective reflectors and mounted on MS pipe of 65 mm dia duly powder coated anti-rust and anti theft steel to be installed as per direction of Engineer-in-charge.	Each	10	781.4	7814
16	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	2	8613.55	17227.1
17	16.71	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 25x25 mm made of G.I. wire of dia 3 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge.	Sqm	20	971.9	19438
	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.				
18	16.91.2	80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.	Sqm	900	1011.2	910080
					<b>Total</b>	<b>24213876.30</b>
<b>Schedule</b> Schedule D8-Sanitary installations, Water supply , Drainage.						
<b>Item- 01</b> Sanitary installations, Water supply , Drainage.						
<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>
	17.0	<b>SANITARY INSTALLATIONS</b>				
	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:				
1	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	61	5781.35	352662.35

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	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 :				
2	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	Each	47	5540.55	260405.85
	17.5	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required :				
3	17.5.1	Single half stall urinal with 5 litre P.V.C. automatic flushing cistern	Each	16	10128.3	162052.8
	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:				
4	17.7.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	Each	13	2275	29575
5	17.7.4	White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap	Each	11	1679.6	18475.6
6	17.7.9	White Vitreous China Surgeon type wash basin of size 660x460 mm with single 15 mm C.P. brass pillar taps with elbow operated levers ISI Marked	Each	5	2629.55	13147.75
7	17.8	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings.	Each	11	1500.05	16500.55
	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				
8	17.10.1.2	510x1040 mm bowl depth 225 mm	Each	3	6677.4	20032.2
9	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	14	299.35	4190.9
	17.20	Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete :				
10	17.20.1	White solid plastic seat with lid	Each	14	586.55	8211.7
11	17.22A	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge.	Each	110	886.25	97487.5
12	17.22B	Providing and fixing CP Brass Single lever telephonic wall mixer of quality & make as approved by Engineer in charge. (a) 15 mm nominal dia	Each	72	6119.15	440578.8
	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				
13	17.28.2.1	32 mm dia	Each	4	104.35	417.4
14	17.28.2.2	40 mm dia	Each	13	104.35	1356.55
15	17.31	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	Each	57	1411.15	80435.55
16	17.33	Providing and fixing 600x120x5 mm glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.	Each	57	942.15	53702.55
	17.34	Providing and fixing toilet paper holder :				
17	17.34.1	C.P. brass	Each	86	680.8	58548.8
	17.69	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour.				
18	17.69.2	Waste coupling 38 mm dia of 83 mm length and 77mm breadth, weighing not less than 60 gms	Each	75	109.7	8227.5



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19	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	82	146.3	11996.6
20	17.72	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.	Each	98	204.7	20060.6
	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.				
21	17.73.2	600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.	Each	47	600.35	28216.45
22	17.74	Providing and fixing PTMT shelf 440 mm long, 124 mm width and 36 mm height of approved quality and colour, weighing not less than 300 gms.	Each	35	607.05	21246.75
23	17.75	Providing and fixing PTMT 15 mm Urinal spreader size 95x69x100 mm with 1/2" BSP thread and shapes, weighing not less than 60 gms.	Each	32	92.75	2968
	17.76	Providing and fixing PTMT urinal cock of approved quality and colour.				
24	17.76.1	15 mm nominal bore, 80 mm long, 42 mm high and 30mm wide with BSP female threads weighing not less than 48 gms	Each	24	149.95	3598.8
25	17.78	Providing and fixing white vitreous china extended wall mounting water closet of size 780x370x690 mm of approved shape including providing & fixing white vitreous china cistern with dual flush fitting, of flushing capacity 3 litre/ 6 litre (adjustable to 4 litre/ 8 litres), including seat cover, and cistern fittings, nuts, bolts and gasket etc complete.	Each	8	13036.55	104292.4
26	17.80	Providing and fixing white vitreous china battery based infrared sensor operated urinal of approx. size 610 x 390 x 370 mm having pre & post flushing with water (250 ml & 500 ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge.	Each	19	7004.45	133084.55
	18.0	WATER SUPPLY				
	18.75	C.P.V.C. PIPES				
	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, 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.				
27	18.8.1	15 mm nominal dia Pipes	Metre	115	441.15	50732.25
28	18.8.2	20 mm nominal dia Pipes	Metre	150	513.75	77062.5
29	18.8.3	25 mm nominal dia Pipes	Metre	225	626.05	140861.25
30	18.8.4	32 mm nominal dia Pipes	Metre	60	712.75	42765
	18.9	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge.-External work				
31	18.9.1	15 mm nominal dia Pipes	Metre	35	221.35	7747.25
32	18.9.2	20 mm nominal dia Pipes	Metre	85	275.25	23396.25
33	18.9.3	25 mm nominal dia Pipes	Metre	520	370.65	192738
34	18.9.5	40 mm nominal dia Pipes	Metre	575	559.2	321540
35	18.9.6	50 mm nominal dia Pipes	Metre	1100	811.85	893035
	18.31S	C.I. SLUICE VALVES/ FIRE HYDRANTS & FIXTURES				
36	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	29000	9.7	281300

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	18.49S	C.P. BRASS FITTINGS				
	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				
37	18.49.1	15 mm nominal bore	Each	155	434.2	67301
	18.50	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.				
38	18.50.1	15 mm nominal bore	Each	120	715.05	85806
	18.52	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.				
39	18.52.1	15 mm nominal bore	Each	270	594.75	160582.5
	19.0	DRAINAGE				
	19.1S	STONE WARE PIPES AND FITTINGS				
	19.2	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design :				
40	19.2.3	200 mm diameter S.W. pipe	Metre	225	1276.7	287257.5
	19.31	Extra for depth beyond 45 cm of brick masonry chamber :				
	19.36	Providing and laying Non Pressure NP-4 class (Heavy duty) R.C.C. pipes including collars/spigot jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete				
41	19.36.3	900 mm dia RCC pipes.	Metre	66	6594.4	435230.4
					<b>Total</b>	<b>5018828.40</b>
<b>Schedule</b>	Schedule D9-Pile work.					
<b>Item- 01</b>	Pile 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>
	20.0	PILE WORK				
	20.3	Boring with hydraulic piling rigs with power units, providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M-25 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap) :				
1	20.3.1	300 mm dia piles	Metre	4226	2560.9	10822363.4
2	20.3.4	550 mm dia piles	Metre	8820	3956.75	34898535
	20.4	Extra over single under ream for providing additional bulbs in under reamed piles, under specified diameter(only the nos. of extra bulbs are to be paid)				
3	20.4.1	300 mm dia piles	Each	1413	2182.6	3084013.8
4	20.4.4	550 mm dia piles	Each	892	2800.8	2498313.6
					<b>Total</b>	<b>51303225.80</b>
<b>Schedule</b>	Schedule D10-Water proofing,Rain water harvesting & tubewells, Conservation of heritage building, New Technologies and Materials.					
<b>Item- 01</b>	Water proofing,Rain water harvesting & tubewells, Conservation of heritage building, New Technologies and Materials.					
<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>
	23.0	RAIN WATER HARVESTING & TUBEWELLS				
	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				
1	23.1.1.1	300 mm dia	Metre	450	592.05	266422.5
	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.				

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	23.3	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.				
2	23.3.3	200 mm nominal size dia	Metre	450	951.95	428377.5
3	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	15	1302.3	19534.5
4	23.8	Gravel packing in tubewell construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge.	cum	9	1479.25	13313.25
	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.				
5	23.14.3	200 mm clamp	Each	3	1827	5481
	26.0	NEW TECHNOLOGIES AND MATERIALS				
	26.73S	PREFAB/PRECAST TECHNOLOGY				
6	26.91	Providing and fixing factory made 18 mm thick single extruded WPC (Wood Polymer Composite) solid plain white colour board Jali, CNC (Computer numeric control) routed of approved design by Engineer-in -charge which are machine cut for duct/shaft covering, partitions and facades comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives(maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) minimum compressive strength 50 N/mm2, modulus of elasticity 850 N/mm2 and resistance to spread of flame of Class A category with properties of being termite/borer proof, water/moisture proof and fire retardant and fixing on M.S (mild steel) frame made of 25 x 25 x 1.5 mm square hollow box section including applying a priming coat of approved steel primer, placed at grid made at 1.0 x 1.0 m or as per requirement at site with necessary stainless steel fasteners and SS screws etc., all complete as per direction of Engineer-In- Charge. (Note: M.S (mild steel) framework with priming coat and necessary SS fasteners and SS screws shall be paid separately.	Sqm	550	3136.65	1725157.5

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	26.93	Providing and fixing of facade at all heights with extruded hollow Clay / Terracotta ventilated rainscreen tiles of height 259/ 309/ 409mm and length of 1190 mm of approved texture,design and pattern having Flexural Strength/ Modulus of Rupture of greater than or equal to 14 N/m2 and maximum water absorption of 10% tested as per ISO 10545-4:2004(E) and ISO 10545-3:1995 respectively in true level fixed to a supporting aluminium framework (Alloy 6063 T5/T6) consisting of vertical 'T' (for intermediates)/ 'L' (for ends/ termination)/ Tubular sections (at corners)of size 80x60x2mm/ 40x60x2mm/ 40x40x2mm respectively, spaced at maximum spacing of 1200mm c/c matching to the tile vertical grid, and horizontal aluminium 'C'-clamps of size 56x34x2 mm thickness of length 150mm at junction of tiles and of length 75mm at wall ends/ corners fixed on top of the vertical sections at spacing of 250/ 300/ 400mm c/c matching to the tile horizontal grid with two numbers of self-drilling / self-tapping SS screws of size 5.5x25 mm with EPDM washers. The vertical 'T'/'L' Tubular' sections shall be fixed to the wall using HDG (hot-dip-galvanized) steel L-brackets (galvanizing thickness of minimum 80 microns) of size 110x80x6 mm at intermediate vertical aluminium profiles and of size 220x110x12 mm at outer corners and stainless steel grade 304,M10 full threaded anchor fasteners with nylon sleeve 100mm long (for brick work) and M8 expansion anchor fasteners 75mm long for concrete surface, spacing of brackets to be based on a structural/ static calculation. The brackets shall be of length 175mm at junction of two vertical aluminium profiles and of length 100mm at intermediate points of vertical profiles and shall be fixed to the vertical aluminium T / L / Tubular profiles using two numbers self-drilling/ self-tapping SS screws of size 5.5x25 mm with EPDM washers. EPDM gaskets to be fixed in between brackets and vertical profiles. The tiles shall be mounted on the 'C' clamps such that the tiles are supported at top and bottom at both ends. The tiles shall be mounted on the C-clamps with EPDM profiles in between such that the tiles are supported at top and bottom at both ends. The vertical joint open groove between two adjacent tiles shall be 10mm. The tiles and system shall be designed to resist wind load as per IS 875 (Part 3) according to different zones. The tiles shall be installed using the ventilated rain screen principle with provision for natural ventilation of the space between the facade tiles and the structural wall. The work shall be carried out as per specification, drawing and as per direction of the Engineer-in-Charge. Note : Scaffolding wherever required to be paid separately				
7	26.93.2	With 24mm thickness (+/- 10%) terracotta tiles of other than grey colors	Sqm	230	5151.4	1184822
					<b>Total</b>	<b>3643108.25</b>
<b>Schedule</b> Schedule D4a-Steel Reinforcement						
<b>Item- 01</b> Steel Reinforcement.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	5.0	REINFORCED CEMENT CONCRETE				
	5.22S	STEEL REINFORCEMENT				
	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
1	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	203600	89.65	18252740
	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
2	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	507500	89.65	45497375
					<b>Total</b>	<b>63750115.00</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
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1	The tenderer must have minimum average annual contractual turnover of V/N or 'V' whichever is less; where V= Advertised value of the tender in crores of Rupees N= Number of years prescribed for completion of work for which bids have been invited. The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover. The tenderers shall submit requisite information as per Annexure-VIB, along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by Audited Balance Sheet.(For details refer to Tender Document)	No	No	Allowed (Mandatory)
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**Special Technical Criteria**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Technical Eligibility Criteria: The tenderer must have successfully completed or substantially completed any one of the following categories of work(s) during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: (i) Three similar works each costing not less than the amount equal to 30% of advertised value of 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 costing not less than the amount equal to 60% of advertised value of the tender.(For details refer to Tender Document)	No	No	Allowed (Mandatory)
2	Definition Of Similar Work : - " Any Civil Engineering work involving building works & structural steel work."	No	No	Allowed (Mandatory)
3	(b) (1)In case of tenders for 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 or substantially completed any one of the following categories of work(s) during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: (i)Three similar works each costing not less than the amount equal to 30% of advertised value of each component of tender, or (ii)Two similar works each costing not less than the amount equal to 40% of advertised value of each component of tender, or (iii)One similar work each costing not less than the amount equal to 60% of advertised value of each component of tender. Note for b(1): Separate completed works of minimum required values shall also be considered for fulfilment of technical eligibility criteria for different components.	No	No	Allowed (Mandatory)
4	(b) (2) 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.	No	No	Allowed (Mandatory)
5	(b) (3) To evaluate the technical eligibility of tenderer, only components of work as stipulated in tender documents for evaluation of technical eligibility, shall be considered. The scope of work covered in other remaining components shall be either executed by tenderer himself if he has work experience as mentioned in clause 7 of the Standard General Conditions of Contract or through subcontractor fulfilling the requirements as per clause 7 of the Standard General Conditions of Contract or jointly i.e., partly himself and remaining through subcontractor, with prior approval of Chief Engineer in writing.	No	No	Allowed (Mandatory)
6	Tender not accompanied by documentary evidence in support of eligibility criteria for similar nature of work will be summarily rejected. (For complete details of the technical eligibility criteria for similar nature of the work, please refer clause 2.1, chapter-3 of the tender document).	No	No	Allowed (Mandatory)
7	Work experience certificate from private individual shall not be considered. However, in addition to work experience certificates issued by any Govt. Organization, work experience certificate issued by Public listed company having average annual turnover of Rs 500 crore and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, incorporated/registered at least 5 years prior to the date of closing of tender, shall also be considered provided the work experience certificate has been issued by a person authorized by the Public listed company to issue such certificates. In case tenderer submits work experience certificate issued by public listed company, the tenderer shall also submit along with work experience certificate, the relevant copy of work order, bill of quantities, bill wise details of payment received duly certified by Chartered Accountant, TDS certificates for all payments received and copy of final/last bill paid by company in support of above work experience certificate.	No	No	Allowed (Mandatory)
8	Regarding technical and financial eligibility criteria, scanned copies of supportive documents/certificates from competent officials are to be submitted along with their offer.	No	No	Allowed (Mandatory)
9	Scanned copies of documents in support of formation/registration of the company/firm/legal authorization of the person to deal with the tender/notarized/registered copies of the documents wherever required as per tender conditions are to be submitted along with offer.	No	No	Allowed (Mandatory)
10	Bid Capacity: (Applicable) ([Bid Capacity applicable with special condition that " in the case of more than one L-1 bidders, tender may be awarded to tenderer having higher Bid Capacity and In case Bid Capacity is also the same, the tenderer having done more value of similar work in the last three previous financial years and the current financial year up to the date of opening of the tender may be selected for the award as per Rly. Board's letter no. 2017/Tran/01/Policy New Delhi, dated: 08-02-2018]).(For details refer to Tender Document)	No	No	Allowed (Mandatory)

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

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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.

**Check Lst**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Whether the prescribed cost of tender document & Bid Security shall be deposited either 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-VIA of GCC April 2022 and shall be valid for a period of 90days beyond the bid validity period.	No	No	Not Allowed
1.1	Uploading of Certificate in support of Technical criteria.	No	No	Not Allowed
1.2	Submission of Certificate in support of Financial criteria including audited balance sheet duly certified by CA.	No	No	Not Allowed
1.3	Submission of Ballast test certificate in case of tender schedule having item for Supply of Ballast.	No	No	Not Allowed
1.4	Whether History sheet of tenderers filled in as per Annexure A of Annexed document.	No	No	Not Allowed
1.5	The prospective tenderers/bidders must have a "Class III Digital Signature" with Company name from any certifying agency (CA) authorized by controller of certifying Authorities (CCA). They also have to submit online request for registration sufficiently in advance to get themselves registered on IREPS (works) in order to participate in e-tendering in works contracts.	No	No	Not Allowed
1.6	Bid Capacity as per annexure N duly verified by Chartered Accountant : Applicable	No	No	Not Allowed

**Commercial-Compliance**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Please submit your bank details i.e. Name of Bank along with Bank Branch Code, Accounts Number as appearing in the cheque book, IFSC Code and PAN Number, duly certified by the authorised official of the bank, to facilitate payment through ECS/NEFT/RTGS.	Yes	No	Allowed (Optional)



**CAO-C-SOUTH-HQ-ENGINEERING/EAST CENTRAL RLY  
TENDER DOCUMENT**

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1.1	[A] In case of Partnership Firm, the following documents shall be enclosed. [i] Notary certified/registered copy of the Partnership deed. [ii] Power of Attorney [duly registered as per prevailing law] in favour of one of the partners of the Partnership Firm [if such power is already not assigned in partnership deed] to sign the tender/agreement on behalf of the Partnership Firm and create liability against the firm. [B] In case Private Limited / Limited Company, the following documents shall be enclosed: [i] Notary certified copy of resolution of the Directors of the Company permitting the company to participate in the tender, authorizing MD or one of the Directors or Managers of the Company to sign the tender/agreement, such other documents require 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.[ii] Copy of Memorandum & Articles of Association of the Company. [iii] Power of Attorney [duly registered/notarized as per prevailing law] authorising the person to do/act mentioned in Para [i] above, [if such authority is not already delegated in the resolution of directors]. [C] In case of JV Firms : Clause No 65 of IRSGCC-2022 with upto date correction slip shall be applicable in all respects for participation of Joint Venture [JV] firms in works tenders. JV firm should submit Memorandum of Understanding [MOU] as per the format attached as annexure to the tender document. Submission of all other documents should also be as per Cl. No. 65.15 of IRSGCC-2022.	Yes	No	Allowed (Mandatory)
1.2	Scanned copy [in PDF format] of the details regarding the Association of Railway Officer/s with the tender [for details please refer Annexure-H of Ch.9 of Tender document].	Yes	No	Allowed (Optional)
1.3	Scanned copy [in PDF format] of the details of the works awarded to the firm, during the last three years and current financial year [for details please refer Annexure-F of Ch.9 of Tender document].	Yes	No	Allowed (Optional)
1.4	Scanned copy [in PDF format] of the details of the List of the Arbitration & Court cases during the last 3 years [for details please refer Annexure-J and I of Ch.9 of Tender document].	Yes	No	Allowed (Optional)
1.5	Scanned copy [in PDF format] of the details of agency and own equipments proposed to be included [for details please refer Annexure-D of Ch.9 of Tender document]	Yes	No	Allowed (Optional)
1.6	Scanned copy [in PDF format] of the details of technical personals of the Agency, available in hand [for details please refer Annexure-E of Ch.9 of Tender document].	Yes	No	Allowed (Optional)
1.7	Scanned copy of (in PDF Format) of HISTORY SHEET OF THE TENDERER. [for details please refer Annexure-A Ch.9 of tender document].	Yes	No	Allowed (Optional)
1.8	Scanned copy of the NEFT in PDF format. All Payments to the agency [including the refund of the Earnest Money [EMD of the unsuccessful bidder] will be remitted through NEFT. The Tenderer is required to declare Bank details and A/C No. etc. in NEFT form.	Yes	No	Allowed (Mandatory)
1.9	Scanned copy [in PDF format] of the complete address of the firm in PDF format to which the all correspondences shall be made by the railway [for details please refer Annexure-A of Ch.9 of Tender document].	Yes	No	Allowed (Optional)
1.10	Scanned copy [in PDF format] of details of the works on hand by the tenderer(s) [for details please refer Annexure-G of Ch.9 of Tender document].	Yes	No	Allowed (Optional)
1.11	Scanned copy [in PDF format] of broad plan of execution of this work within the stipulated completion period [for details please refer Annexure-K of Ch.9 of Tender document].	Yes	No	Allowed (Optional)
1.12	Scanned copy [in PDF format] of other credentials/facilities available with firm/contractor/tenderer [for details please refer Annexure-L of Ch.9 of Tender document].	Yes	No	Allowed (Optional)
1.13	Scan COPY OF THE PROGRAMME IN THE FORM OF BAR CHART FOR COMPLETION OF WORK, MACHINERY DEPLOYMENT FOR ACHIEVING HE PROGRAMMED PROGRESS MUST BE UPLOADED ALONG WITH THE TENDER.	Yes	No	Allowed (Optional)
1.14	We have read the tender Notice [NIT] detail, Tender document along with all the conditions attached/referred to, in this tender document, and agree to abide by the said conditions.	Yes	No	Allowed (Mandatory)
2	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)

**Undertakings**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	I/ We have visited the works site and I / We am / are aware of the site conditions.	No	No	Not Allowed
2	I/we have visited work site and I/We am/are aware of the site condition.	No	No	Not Allowed
2.1	I/we have read the various conditions attached /referred to in this tender document and agree to abide by the said conditions.	No	No	Not Allowed
2.2	I/we also hereby agree to abide by the Indian Railway Standard General Conditions of Contract-2022 with all Correction Slips up to date of closing of tender and to carry out the work according to the Special Conditions of Contract and Specification of Materials and work as laid down by Railway in the Annexed Special Conditions/Specifications, Schedule of Rates with all correction slips upto date closing of tender for the present contract.	No	No	Not Allowed

**CAO-C-SOUTH-HQ-ENGINEERING/EAST CENTRAL RLY  
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2.3	I/we hereby confirm that the rates, rebates and/or other financial terms, if any, quoted by us in the relevant fields of the financial bid page will only be the ruling terms for deciding the inter-se-ranking and any such conditions having financial repercussions, if quoted by us anywhere else including attached document that not be considered for deciding enter-se-ranking.	No	No	Not Allowed
2.4	I/we agree to keep our offer open for acceptance for a period of 60/90 days from the date of closing of tender and in default thereof, I/we will liable for forfeiture of my/our Bid security.	No	No	Not Allowed
2.5	The amount as stipulated in tender document is herewith forwarded as Bid security shall stand forfeited without prejudice if :-	No	No	Not Allowed
2.6	I/we resile from my/our offer or modify the terms & conditions thereof in a manner not acceptable to the Railway's during a period of 90 days from the date of closing of tenders.	No	No	Not Allowed
2.7	I/we do not submit a Performance Guarantee in any of the prescribed form within 60 days from the date of issue of Letter of Acceptance.	No	No	Not Allowed
2.8	I/we do not execute the contract within 7 (Seven) days after receipt of notice by Railway that such documents are ready.	No	No	Not Allowed
2.9	I/we do not commence the work within 15 (Fifteen) days after receipt of Letter of Acceptance to that effect.	No	No	Not Allowed
2.10	Until a formal agreement is prepared and executed, acceptance of this tender shall constitute a binding contract between us subject of modifications, as may be mutually agreed to between us and indicated in the Letter of Acceptance of my/our offer to this work.	No	No	Not Allowed
2.11	I/we offer to do the work for East Central Railway at the rates quoted in the attached schedule and hereby bind myself/ourselves to complete the work in all respect within the period of completion stipulated in the tender document from the date of issue of letter of acceptance of the tender.	No	No	Not Allowed
2.12	I/we hereby confirm that I/we have satisfied myself/ourselves by actual inspection of site and locality of the work that all conditions liable to be encountered during execution of the work are taken into account and that the rates entered in the tender are adequate and all inclusive in accordance to the provision in the clause-37 Pt.II of the Indian Railway Standard General Condition of Contract-2022 with corrections up to the date of closing of tender.	No	No	Not Allowed
2.13	It is certified that I am the authorised person to represent the firm and I am authorised to sign the tender and all the documents on behalf of the firm.	No	No	Not Allowed
2.14	It is certified that all the statement and document submitted with the offer are true and correct.	No	No	Not Allowed
2.15	It is certified that we are aware of the fact that this tender offer is made in the full understanding that our offer will be subjected to verification of all the information submitted with this tender.	No	No	Not Allowed
2.16	We are aware of the fact that the Railway reserved the rights to amend the scope and value of the contract and to reject [or accept] this offer without assigning any financial liability.	No	No	Not Allowed

**Custom**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	:- The tenderer shall submit a affidavit stating that they are not liable to be disqualified and all their statements/documents submitted along with bid are true and factual. Standard format of the affidavit to be submitted by the bidder is enclosed as annexure-M & M(I). Non submission of an affidavit by the bidder shall result in summary rejection of his/their bid. And it shall be mandatorily incumbent upon the tenderer to identify state and submit the supporting documents duly self attested by which they/he is qualifying the Qualifying Criteria mentioned in the Tender Document. It will not be obligatory on the part of Tender Committee to scrutinize beyond the submitted document of tenderer as far as his qualification for the tender concerned.	No	No	Allowed (Mandatory)

**6. Documents attached with tender**

S.No.	Document Name	Document Description
1	ANNEXURE-M.pdf	ANNEXURE M
2	Tender-Documents.pdf	Tender Document
3	TFfirstsheet.pdf	Tender form first sheet
4	ANNEXUREB.pdf	ANNEXURE B
5	GCCCorrectionslip_compressed1to10_compressed.pdf	GCC 2022 corr slip 1 to 10
6	ANNEXURE-G.pdf	ANNEXURE G

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7	Spl.ConditionAnnexure-I.pdf	Spl Condition Annexure I
8	Spl.ConditionAnnexure-II.pdf	Spl Condition Annexure II
9	2026_03_13IndianRailwaysStandardGeneralConditionsofContractApril2022AdvanceCorrectionSlip.pdf	GCC 2022 corr slip 11
10	ANNEXUREA.pdf	ANNEXURE A
11	ANNEXUREC.pdf	ANNEXURE C
12	ANNEXURED.pdf	ANNEXURE D
13	ANNEXUREE.pdf	ANNEXURE E
14	ANNEXUREF.pdf	ANNEXURE F
15	ANNEXUREH.pdf	ANNEXURE H
16	ANNEXUREI.pdf	ANNEXURE I
17	ANNEXUREJ.pdf	ANNEXURE J
18	ANNEXUREK_1.pdf	ANNEXURE K
19	ANNEXUREL_1.pdf	ANNEXURE L
20	ANNEXUREMI.pdf	ANNEXURE MI
21	GCC_April-2022_2022_CE-I_CT_GCC-2022_POLICY_27_04_22.pdf	General Conditions of Contract
22	AnnexureN.pdf	ANNEXURE N

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

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

**Signed By:** PRATEEK RASTOGI

**Designation :** Dy.CE.CE-CON-DNR