

**ADRA DIVISION-ENGG/SOUTH EASTERN RLY
TENDER DOCUMENT**

Tender No: E-DRM-Engg-ADRA-19-23

Closing Date/Time: 21/04/2023 15:00

DRM (Engg), Adra Division acting for and on behalf of The President of India invites E-Tenders against Tender No **E-DRM-Engg-ADRA-19-23** Closing Date/Time 21/04/2023 15:00 Hrs. Bidders will be able to submit their original/revised bids upto closing date and time only. Manual offers are not allowed against this tender, and any such manual offer received shall be ignored.

1. NIT HEADER

Name of Work	Soft up-gradation and divyangjan facilities at stations Purulia, Anara, Joychandipahar, Chandil, Barabhum, Burnpur, Madhukunda including PF raising at madhukunda station under AMRIT BHARAT stations scheme.		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Two Packet System
Tender Closing Date Time	21/04/2023 15:00	Date Time Of Uploading Tender	30/03/2023 19:54
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	441431370.09	Tendering Section	WORKS
Bidding Style	Single Rate for Each Schedule	Bidding Unit	
Earnest Money (Rs.)	2357200.00	Validity of Offer (Days)	90
Tender Doc. Cost (Rs.)	0.00	Period of Completion	10 Months
Contract Type	Works	Contract Category	Expenditure
Bidding Start Date	07/04/2023	Are Joint Venture (JV) firms allowed to bid	Yes
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Station Development

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule A-Execution of work Covered under CPWD DSR-2021							222945239.91	Above/ Below/Par
1	Please see Item Breakup for details.				15179363.95	16.00	17608062.18	
	Description:- Improvement of PF Surfacing at JOC, MDKD & BURN							
2	Please see Item Breakup for details.				20865352.01	16.00	24203808.33	
	Description:- Waiting Room Renovation at JOC,MDKD and BURN							
3	Please see Item Breakup for details.				15332393.51	16.00	17785576.47	
	Description:- Improvement to Interior & Waiting Halls PRR,ANR,CNI & BBM							
4	Please see Item Breakup for details.				6164220.75	16.00	7150496.07	
	Description:- VIP LOUNGE RENOVATION AT PRR,ANR,CNI & BBM							
5	Please see Item Breakup for details.				2112301.50	16.00	2450269.74	
	Description:- VIP LOUNGE RENOVATION at JOC, MDKD & BURN							
6	Please see Item Breakup for details.				8446153.55	16.00	9797538.12	
	Description:- Facility for DIVYANGJAN UNDER ABSS at JOC, MDKD & BURN							
7	Please see Item Breakup for details.				2916225.00	16.00	3382821.00	
	Description:- Improvement of Traffic circulation area & Beautification of circulating area at ANARA							
8	Please see Item Breakup for details.				2916225.00	16.00	3382821.00	
	Description:- Improvement of Traffic circulation area & Beautification of circulating area at CHANDIL							
9	Please see Item Breakup for details.				2916225.00	16.00	3382821.00	
	Description:- Improvement of Traffic circulation area & Beautification of circulating area at BBM							
10	Please see Item Breakup for details.				2916225.00	16.00	3382821.00	
	Description:- Improvement of Traffic circulation area & Beautification of circulating area at MADHUKUNDA							
11	Please see Item Breakup for details.				5060295.50	16.00	5869942.78	
	Description:- Improvement of Traffic circulation area & Beautification of circulating area at BURNPUR							
12	Please see Item Breakup for details.				5060295.50	16.00	5869942.78	
	Description:- Improvement of Traffic circulation area & Beautification of circulating area at JOC							
13	Please see Item Breakup for details.				5060295.50	16.00	5869942.78	
	Description:- Improvement of Traffic circulation area & Beautification of circulating area at PRR							
14	Please see Item Breakup for details.				3643266.65	16.00	4226189.31	
	Description:- ENTRANCE PORCHES AT PRR,ANR,CNI & BBM							

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15	Please see Item Breakup for details.	552706.50	16.00	641139.54
	Description:- ENTRANCE PORCHES at MADHUKUNDA			
16	Please see Item Breakup for details.	1610382.15	16.00	1868043.29
	Description:- ENTRANCE PORCHES at JOC			
17	Please see Item Breakup for details.	21259258.60	16.00	24660739.98
	Description:- Improvement of PF Surfacing at PRR,ANR,CNI & BBM			
18	Please see Item Breakup for details.	1526740.15	16.00	1771018.57
	Description:- ENTRANCE PORCHES at BURNPUR			
19	Please see Item Breakup for details.	18113397.20	16.00	21011540.75
	Description:- FACADE IMPROVEMENT AND ELEVATION AT PRR,ANR,CNI & BBM			
20	Please see Item Breakup for details.	11831250.65	16.00	13724250.75
	Description:- FACADE IMPROVEMENT AND ELEVATION AT JOC,MDKD & BURN			
21	Please see Item Breakup for details.	8307916.99	16.00	9637183.71
	Description:- PF SHED AT JOC, MDKD AND BURNPUR			
22	Please see Item Breakup for details.	15681404.24	16.00	18190428.92
	Description:- Facility for DIVYANGJAN UNDER ABSS at PRR,ANR,CNI & BBM			
23	Please see Item Breakup for details.	5538382.99	16.00	6424524.27
	Description:- PROVISION OF PF SHED AT ANARA			
24	Please see Item Breakup for details.	9183894.46	16.00	10653317.57
	Description:- Widening and Raising of platform at Madhukunda and RDSO Type PF shed			

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule B-Execution of Special Item of works							210550532.59	Above/ Below/Par
1	Please see Item Breakup for details.				1510408.95	AT Par	1510408.95	
	Description:- Spl item for Improvement to traffic circulation area & Beautification of circulating area at PRR,ANR,CNI & BBM							
2	Please see Item Breakup for details.				27880708.00	AT Par	27880708.00	
	Description:- Special item for Entrance porches at PRR,ANR,CNI& BBM							
3	Please see Item Breakup for details.				18426596.50	AT Par	18426596.50	
	Description:- Special item for Facade and elevation at PRR,ANR,CNI & BBM							
4	Please see Item Breakup for details.				25120171.06	AT Par	25120171.06	
	Description:- Special item for Improvement of PF Surfacing at PRR,ANR,CNI & BBM							
5	Please see Item Breakup for details.				17201149.70	AT Par	17201149.70	
	Description:- Special item for Improvement to interior,Waiting halls etc at PRR,ANR,CNI & BBM							
6	Please see Item Breakup for details.				10959929.40	AT Par	10959929.40	
	Description:- Special item for VIP LOUNGE at PRR,ANR,CNI & BBM							
7	Please see Item Breakup for details.				703983.50	AT Par	703983.50	
	Description:- Special item for Horticulture at PRR,ANR,CNI & BBM							
8	Please see Item Breakup for details.				9809620.00	AT Par	9809620.00	
	Description:- Spl item for ENTRANCE PORCHES AT JOC,MDKD AND BURN							
9	Please see Item Breakup for details.				24585501.82	AT Par	24585501.82	
	Description:- Special item for platform surfacing at JOC,MDKD & BURN							
10	Please see Item Breakup for details.				21350423.00	AT Par	21350423.00	
	Description:- Special item for Improvement to Facade & Elevation at JOC,MDKD & BURN							
11	Please see Item Breakup for details.				11253447.90	AT Par	11253447.90	
	Description:- Special item for Improvement of interior, Waiting halls etc.at JOC,MDKD & BURN							
12	Please see Item Breakup for details.				6862349.80	AT Par	6862349.80	
	Description:- Special item for VIP Lounge Renovation at JOC,MDKD & BURN							
13	Please see Item Breakup for details.				17662070.40	AT Par	17662070.40	
	Description:- Special item for Divyangjan at JOC,MDKD & BURN							
14	Please see Item Breakup for details.				15873091.41	AT Par	15873091.41	

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14	Description:- Special item for Divyangjan at PRR,ANR,CNI & BBM			
15	Please see Item Breakup for details.	767982.00	AT Par	767982.00
	Description:- Special item for Horticulture at JOC,MDKD & BURN			
16	Please see Item Breakup for details.	583099.15	AT Par	583099.15
	Description:- Special item for Improvement to Traffic circulation area & Beautification of circulating area at JOC,MDKD & BURN			

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule C-Supply of Reinforcement Steel covered Under CPWD DSR-2021-Ver-2							3785511.59	Above/ Below/Par
1	Please see Item Breakup for details.				1454235.06	16.00	1686912.67	
	Description:- Supply of Reinforcement steel at JOC,MDKD & BURN							
2	Please see Item Breakup for details.				1809137.00	16.00	2098598.92	
	Description:- Supply of Reinforcement steel at PRR,ANR,CNI & BBM							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule D-Execution of work covered under CPWD HORTICULTURE-2020							4150086.00	Above/ Below/Par
1	Please see Item Breakup for details.				1522733.50	AT Par	1522733.50	
	Description:- Horticulture work at JOC, MDKD & BURN							
2	Please see Item Breakup for details.				2627352.50	AT Par	2627352.50	
	Description:- Horticulture at PRR, ANR, CNI & BBM							

3. ITEM BREAKUP

Schedule	Schedule A-Execution of work Covered under CPWD DSR-2021						
Item- 1	Improvement of PF Surfacing at JOC, MDKD & BURN						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount	
	2.0	EARTH WORK					
	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.					
1	2.8.1	All kinds of soil.	cum	15	286.85	4302.75	
2	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	500	2161.2	1080600	
	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 :					
3	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	58	7365.15	427178.7	
	5.0	REINFORCED CEMENT CONCRETE					
	5.12S	PRE-CAST RCC					

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4	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	108	9673.5	1044738
	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:				
5	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	48	6658.25	319596
	6.12S	HALF BRICK MASONRY				
	6.12	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :				
6	6.12.2	cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm	90	837.85	75406.5
	6.26S	EXPOSED BRICK WALL				
	6.34	Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in :				
7	6.34.2	Cement mortar 1:6 (1 cement : 6 Coarse sand)	cum	290	7676.3	2226127
	11.0	FLOORING				
	11.41S	VITRIFIED FLOOR TILES				
	11.55	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge :				
8	11.55.1	Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	Sqm	2900	2589.9	7510710
	26.0	NEW TECHNOLOGIES AND MATERIALS				
9	26.6A	Providing, erecting, laying and fixing in position in 3.5 to 4 mm thick bamboo mat corrugated sheet (BMCS) as per IS: 15476-2004 in roofing with self drilling screws along with EPDM washers complete or with galvanized iron J or L hooks 8mm dia G.I. plain and bitumen washers etc, all complete as per direction of Engineer-in-Charge.	Sqm	400	5188.65	2075460
10	26.6B	Providing and fixing in position ridges of 3.5 to 4 mm thick bamboo mat ridge cap (BMRC) as per IS: 15476-2004 in roofing with self drilling screws along with EPDM washers complete or with galvanized iron J or L hooks 8mm dia G.I. plain and bitumen washers etc, all complete as per direction of Engineer-in-Charge.	Metre	100	4152.45	415245
					Total	15179363.95
Item- 2	Waiting Room Renovation at JOC,MDKD and BURN					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	1.0	CARRIAGE OF MATERIALS				
	1.1	By Mechanical Transport including loading,unloading and stacking				
	1.1.1	Lime, moorum, building rubbish				
1	1.1.1.5	5km	cum	400	217.16	86864

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	2.0	EARTH WORK				
	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
2	2.8.1	All kinds of soil.	cum	350	286.85	100397.5
3	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	120	2161.2	259344
	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 :				
4	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	230	7365.15	1693984.5
5	4.1.5	1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	230	6833.4	1571682
	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	10	8364.2	83642
	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	10	10185.05	101850.5
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
8	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	20	307.95	6159
9	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	30	766.55	22996.5
10	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	30	608.35	18250.5
11	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	20	804.25	16085
	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	60	9673.5	580410

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	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:				
13	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	120	6658.25	798990
	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 :				
14	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	60	8288.35	497301
	6.12S	HALF BRICK MASONRY				
	6.12	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :				
15	6.12.2	cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm	30	837.85	25135.5
16	6.14	Extra for half brick masonry in superstructure, above floor V level for every four floors or part thereof by mechanical means.	Sqm	80	12.6	1008
	6.26S	EXPOSED BRICK WALL				
	6.34	Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in :				
17	6.34.2	Cement mortar 1:6 (1 cement : 6 Coarse sand)	cum	40	7676.3	307052
	8.0	CLADDING WORK				
	8.20S	STONE WORK DRY CLADDING				
18	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	75	1063.45	79758.75

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19	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	400	4474.2	1789680
	9.0	WOOD AND P.V.C. WORK				
	9.1S	FRAMES AND TRUSSES				
	9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).				
20	9.1.2	Sal wood	cum	.6	106720.85	64032.51
	9.40S	MISCELLANEOUS-WOOD WORK				
	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.				
21	9.48.2	Fixed to openings /wooden frames with rawl plugs screws etc.	Kg	400	197.7	79080
	9.105S	GYPSON BOARD PARTITIONS				

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22	9.119	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with awall thickness of 5 mm, made out of extruded 5mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer- in-Charge.	Metre	200	408.25	81650				
	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.		23	9.120.1	30 mm thick plain PVC door shutters	Sqm	80	2455.1	196408
	9.147A	Providing and fixing factory made uPVC white colour casement/casement cum fixed glazed windows comprising of uPVC multi-chambered frame, sash and mullion (where ever required) 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), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, stainless steel (SS 304 grade) friction hinges, zinc alloy (white powder coated) casement handles, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded 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 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.								

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24	9.147A.1	Casement window single panel with S.S. friction hinges (300 x 19 x 1.9 mm), made of (small series) frame 47 x 50 mm & sash 47 x 68 mm both having wall thickness of 1.9 +/- 0.2 mm and single glass pane glazing bead of appropriate dimension. (Area of window upto 0.75 sqm.)	Sqm	40	10443.75	417750
	10.0	STEEL WORK				
25	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	5900	111.95	660505
26	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	60	9397.35	563841
27	10.19	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.	Kg	540	88.5	47790
	10.25	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
28	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	Kg	2900	142.3	412670
29	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	1000	612.25	612250
	11.0	FLOORING				
30	11.4	52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	Sqm	30	855.9	25677
	11.37S	CERAMIC GLAZED TILES				
31	11.37	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	Sqm	600	935.6	561360
	11.41S	VITRIFIED FLOOR TILES				

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	11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm 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., complete.				
32	11.41.2	Size of Tile 600x600 mm	Sqm	800	1416.65	1133320
33	11.41.4	Size of Tile 1000x1000 mm	Sqm	500	2551.95	1275975
	12.0	ROOFING				
	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	30	132	3960
	12.43	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.				
35	12.43.2	110 mm	Each	250	309.5	77375
	12.64	Providing & fixing at all heights, levels and locations Mill finish Aluminium alloy roofing sheets of alloy IS designation 31500, temper Hx8 conforming to IS 737 and dimensions as per IS code 2676 with characteristics of good formability and corrosion resistance. The profile sheets shall be fixed to truss members in slope or required pitch or curvature with Hex cap headed self drilling/tapping Stainless steel screws M6, 50 mm long with 3 mm EPDM seal washer etc. all inclusive of labour, scaffolding, T&P and sundries etc. complete as per directions of the Engineer-In-Charge. (Cost of truss/frame work shall be paid separately).				
	12.65	Providing & fixing at all heights, levels and locations colour finish Aluminium alloy roofing sheets of alloy IS designation 31500, temper Hx8 conforming to IS 737 and dimensions as per IS code 2676 with characteristics of good formability and corrosion resistance. The profile sheets shall be fixed to truss members in slope or required pitch or curvature with Hex cap headed self drilling/tapping Stainless steel screws M6, 50 mm long with 3 mm EPDM seal washer etc. all inclusive of labour, scaffolding, T&P and sundries etc. complete as per directions of the Engineer-In-Charge. (Cost of truss/frame work shall be paid separately).				
36	12.65.1	0.56 mm, Aluminium Color coated troughed profile with center to center pitch of 200 mm, depth of 32 mm, overall profile width 1092 mm, cover width 1000mm.	Sqm	1350	1006.3	1358505
	12.66	Providing and fixing of Pre-coated colour or mill finish Aluminium Roofing Accessories in 0.71 mm thickness ,Alloy 31500 (IS designation) [Aluminium Alloy (AA) 3004 (ISO designation)] For color, coating shall be 5-7 microns epoxy primer on both sides of the sheet and polyester top coat 15-18 microns, using self drilling/tapping SS screws of size 6 x 50mm with 3mm thick EPDM seal and SS plain washer complete :				
37	12.66.2	Precoated/mill finish aluminium Flashings/ Aprons (Upto 600 mm)	Metre	120	885.5	106260
38	12.66.6	Precoated/mill finish aluminium Gutter (600 mm over all girth)	Metre	120	1616	193920

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	13.0	FINISHING				
	13.1S	CEMENT PLASTER (IN FINE SAND)				
	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
39	13.2.2	1:6 (1 cement: 6 fine sand)	Sqm	1600	324.3	518880
	13.16S	6MM CEMENT PLASTER				
40	13.18	Neat cement punning.	Sqm	500	67.8	33900
41	13.80	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	Sqm	500	123.85	61925
	13.85	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.				
	13.100	Painting with aluminium paint of approved brand and manufacture to give an even shade:				
42	13.100.1	One or more coats on old work	Sqm	2500	79.4	198500
	13.108	Distempering with 1st quality acrylic distemper (ready made) having VOC content less than 50 gm per ltr. of approved manufacturer and of required shade and colour complete. as per manufacturer's specification.				
43	13.108.1	One or more coats on old work	Sqm	1100	50.6	55660
	13.111	Finishing walls with Acrylic Smooth exterior paint of required shade :				
44	13.111.2	Old work (One or more coat applied @ 0.90 ltr/10 sqm).	Sqm	1100	74.75	82225
	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.				
45	15.2.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	cum	280	2007.1	561988
46	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	250	2928.1	732025
	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.				
47	15.7.4	In cement mortar	cum	100	1698.45	169845
	15.12	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :				
48	15.12.1	Of area 3 sq. metres and below	Each	10	302.7	3027
49	15.25	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	Sqm	1000	219.75	219750
	15.28	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of:				
50	15.28.1	G.S. Sheet	Sqm	80	136	10880
51	15.56	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	Sqm	3000	45.05	135150
	17.0	SANITARY INSTALLATIONS				

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	17.4	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :				
52	17.4.1	One urinal basin with 5 litre white P.V.C. automatic flushing cistern	Each	24	5268.85	126452.4
	17.6	Providing and fixing one piece construction white vitreous china squatting plate with an integral longitudinal flushing pipe, white P.V.C. automatic flushing cistern, with fittings, standard size G.I. / PVC flush pipe for back and front flush with standard spreader pipes with fittings, G.I clamps and C.P. brass coupling complete, including painting of fittings and cutting and making good the walls and floors etc. wherever required :				
53	17.6.1	Single squatting plate with 5 litre P.V.C. automatic flushing cistern	Each	14	7752.6	108536.4
	17.7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:				
54	17.7.10	Stainless Steel AISI-304(18/8) Round basin 405x355 mm with single 15 mm C.P. brass pillar tap	Each	4	2950.65	11802.6
	17.13	Providing and fixing white vitreous china water closet squatting pan (Indian type) :				
55	17.13.2	Orissa pattern W.C. pan of size 580x440 mm	Each	24	2758.2	66196.8
56	17.15	Providing and fixing white vitreous china pedestal type (European type/ wash down type) water closet pan.	Each	24	2403.65	57687.6
	17.18	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete.				
57	17.18.1	10 litre capacity - White	Each	4	1023.05	4092.2
58	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	13	6119.15	79548.95
59	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	16	1411.15	22578.4
60	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	16	942.15	15074.4
	17.35	Providing and fixing soil, waste and vent pipes :				
	17.35.1	100 mm dia				
61	17.35.1.1	Sand cast iron S&S pipe as per IS: 1729	Metre	240	1018.05	244332
62	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	24	146.3	3511.2
63	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	16	204.7	3275.2

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	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.				
64	17.73.1	450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms	Each	16	573.6	9177.6
	18.0	WATER SUPPLY				
	18.7S	C.P.V.C. PIPES				
	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, 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.				
65	18.8.1	15 mm nominal dia Pipes	Metre	80	441.15	35292
66	18.8.2	20 mm nominal dia Pipes	Metre	80	513.75	41100
67	18.8.3	25 mm nominal dia Pipes	Metre	80	626.05	50084
	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				
68	18.9.4	32 mm nominal dia Pipes	Metre	80	435.05	34804
69	18.9.5	40 mm nominal dia Pipes	Metre	400	559.2	223680
	18.21	Providing and fixing uplasticised PVC connection pipe with brass unions :				
	18.22	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :				
70	18.22.2	150 mm diameter	Each	24	190.1	4562.4
	18.31S	C.I. SLUICE VALVES/ FIRE HYDRANTS & FIXTURES				
	18.33	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) , i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :				
71	18.33.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	Each	3	10102.5	30307.5
72	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	16000	9.7	155200
	18.49S	C.P. BRASS FITTINGS				
	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				
73	18.49.1	15 mm nominal bore	Each	3	434.2	1302.6
	18.54S	PTMT FITTINGS				

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	18.54	Providing and fixing PTMT bib cock of approved quality and colour.				
74	18.54.1	15mm nominal bore, 86 mm long, weighing not less than 88 gms	Each	100	109.85	10985
	21.0	ALUMINIUM WORK				
	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				
75	21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	200	433.95	86790
	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)				
76	21.1.2.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	500	531.8	265900
	21.2	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.				
77	21.2.2	Pre-laminated particle board with decorative lamination on both sides	Sqm	50	951.05	47552.5
	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):				
78	21.3.1	With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	Sqm	200	1019.8	203960
	26.0	NEW TECHNOLOGIES AND MATERIALS				
	26.73S	PREFAB/PRECAST TECHNOLOGY				

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	26.86	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid door/window/clerestory windows & desertory other Frames/Chowkhat comprising of virgin PVC polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) fabricated with miter joints after applying PVC solvent cement and screwed with full body threaded star headed SS screws having minimum frame density of 750 kg/cum, screw withdrawal strength of 2200 N (Face) & 1100 N (Edge), minimum compressive strength of 58 N/mm2, modulus of elasticity 900 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixed in position with M.S hold fast/lugs/SS dash fasteners of required dia and length complete as per direction of Engineer-In- Charge. (M.S hold fast/lugs or SS dash fasteners shall be paid for separately). Note: For WPC solid door/window frames, minus 5mm tolerance in dimensions i.e depth and width of profile shall be acceptable. Variation in profile dimensions on plus side shall be acceptable but no extra payment on this account shall be made.				
79	26.86.3	Frame size 50 x 100 mm	Metre	50	853	42650
	26.87	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid plain flush door shutter of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm2, modulus of elasticity 850 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In- Charge. (Note: stainless steel butt hinges and necessary S.S screws shall be paid separately)				
80	26.87.2	35 mm thick	Sqm	40	4556.05	182242
					Total	20865352.01
Item- 3	Improvement to Interior & Waiting Halls PRR,ANR,CNI & BBM					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	1.0	CARRIAGE OF MATERIALS				
	1.1	By Mechanical Transport including loading,unloading and stacking				
	1.1.1	Lime, moorum, building rubbish				
1	1.1.1.5	5km	cum	1000	217.16	217160
	2.0	EARTH WORK				
	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
2	2.8.1	All kinds of soil.	cum	200	286.85	57370
3	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	60	2161.2	129672

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	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 :				
4	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	100	7365.15	736515
5	4.1.5	1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	100	6833.4	683340
	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	5	8364.2	41821
	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	5	10185.05	50925.25
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
8	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	10	307.95	3079.5
9	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	15	766.55	11498.25
10	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	15	608.35	9125.25
11	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	10	804.25	8042.5
	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	30	9673.5	290205
	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.				
13	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	5000	89.65	448250
	6.0	MASONRY WORK				

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	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
14	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	30	6658.25	199747.5
	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 :				
15	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	20	8288.35	165767
	6.12S	HALF BRICK MASONRY				
	6.12	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :				
16	6.12.2	cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm	15	837.85	12567.75
17	6.14	Extra for half brick masonry in superstructure, above floor V level for every four floors or part thereof by mechanical means.	Sqm	40	12.6	504
	6.26S	EXPOSED BRICK WALL				
	6.34	Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in :				
18	6.34.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	120	7873.2	944784
	8.0	CLADDING WORK				
	8.20S	STONE WORK DRY CLADDING				
19	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	225	1063.45	239276.25

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20	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	300	4474.2	1342260
	9.0	WOOD AND P.V.C. WORK				
	9.1S	FRAMES AND TRUSSES				
	9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).				
21	9.1.2	Sal wood	cum	.3	106720.85	32016.26
	9.40S	MISCELLANEOUS-WOOD WORK				
	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.				
22	9.48.2	Fixed to openings /wooden frames with rawl plugs screws etc.	Kg	200	197.7	39540
	9.105S	GYPSON BOARD PARTITIONS				

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23	9.119	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with awall thickness of 5 mm, made out of extruded 5mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer- in-Charge.	Metre	100	408.25	40825				
	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.		24	9.120.1	30 mm thick plain PVC door shutters	Sqm	40	2455.1	98204
	9.147A	Providing and fixing factory made uPVC white colour casement/casement cum fixed glazed windows comprising of uPVC multi-chambered frame, sash and mullion (where ever required) 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), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, stainless steel (SS 304 grade) friction hinges, zinc alloy (white powder coated) casement handles, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded 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 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.								

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25	9.147A.1	Casement window single panel with S.S. friction hinges (300 x 19 x 1.9 mm), made of (small series) frame 47 x 50 mm & sash 47 x 68 mm both having wall thickness of 1.9 +/- 0.2 mm and single glass pane glazing bead of appropriate dimension. (Area of window upto 0.75 sqm.)	Sqm	20	10443.75	208875
	10.0	STEEL WORK				
26	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	5000	111.95	559750
27	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	30	9397.35	281920.5
28	10.19	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.	Kg	270	88.5	23895
	10.25	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
29	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	Kg	1500	142.3	213450
30	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	500	612.25	306125
	11.0	FLOORING				
31	11.4	52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	Sqm	260	855.9	222534
	11.37S	CERAMIC GLAZED TILES				
32	11.37	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	Sqm	625	935.6	584750
	11.41S	VITRIFIED FLOOR TILES				

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	11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm 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., complete.				
33	11.41.2	Size of Tile 600x600 mm	Sqm	625	1416.65	885406.25
34	11.41.4	Size of Tile 1000x1000 mm	Sqm	625	2551.95	1594968.75
	12.0	ROOFING				
	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				
35	12.42.5.2	110 mm bend	Each	90	132	11880
	12.43	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.				
36	12.43.2	110 mm	Each	375	309.5	116062.5
	12.64	Providing & fixing at all heights, levels and locations Mill finish Aluminium alloy roofing sheets of alloy IS designation 31500, temper Hx8 conforming to IS 737 and dimensions as per IS code 2676 with characteristics of good formability and corrosion resistance. The profile sheets shall be fixed to truss members in slope or required pitch or curvature with Hex cap headed self drilling/tapping Stainless steel screws M6, 50 mm long with 3 mm EPDM seal washer etc. all inclusive of labour, scaffolding, T&P and sundries etc. complete as per directions of the Engineer-In-Charge. (Cost of truss/frame work shall be paid separately).				
	12.65	Providing & fixing at all heights, levels and locations colour finish Aluminium alloy roofing sheets of alloy IS designation 31500, temper Hx8 conforming to IS 737 and dimensions as per IS code 2676 with characteristics of good formability and corrosion resistance. The profile sheets shall be fixed to truss members in slope or required pitch or curvature with Hex cap headed self drilling/tapping Stainless steel screws M6, 50 mm long with 3 mm EPDM seal washer etc. all inclusive of labour, scaffolding, T&P and sundries etc. complete as per directions of the Engineer-In-Charge. (Cost of truss/frame work shall be paid separately).				
37	12.65.1	0.56 mm, Aluminium Color coated troughed profile with center to center pitch of 200 mm, depth of 32 mm, overall profile width 1092 mm, cover width 1000mm.	Sqm	500	1006.3	503150
	12.66	Providing and fixing of Pre-coated colour or mill finish Aluminium Roofing Accessories in 0.71 mm thickness ,Alloy 31500 (IS designation) [Aluminium Alloy (AA) 3004 (ISO designation)] For color, coating shall be 5-7 microns epoxy primer on both sides of the sheet and polyester top coat 15-18 microns, using self drilling/tapping SS screws of size 6 x 50mm with 3mm thick EPDM seal and SS plain washer complete :				
38	12.66.2	Precoated/mill finish aluminium Flashings/ Aprons (Upto 600 mm)	Metre	60	885.5	53130
39	12.66.6	Precoated/mill finish aluminium Gutter (600 mm over all girth)	Metre	60	1616	96960

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	13.0	FINISHING				
	13.1S	CEMENT PLASTER (IN FINE SAND)				
	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
40	13.2.2	1:6 (1 cement: 6 fine sand)	Sqm	2800	324.3	908040
	13.16S	6MM CEMENT PLASTER				
41	13.18	Neat cement punning.	Sqm	250	67.8	16950
42	13.80	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	Sqm	300	123.85	37155
	13.85	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.				
	13.100	Painting with aluminium paint of approved brand and manufacture to give an even shade:				
43	13.100.1	One or more coats on old work	Sqm	5000	79.4	397000
	13.108	Distempering with 1st quality acrylic distemper (ready made) having VOC content less than 50 gm per ltr. of approved manufacturer and of required shade and colour complete. as per manufacturer's specification.				
44	13.108.1	One or more coats on old work	Sqm	800	50.6	40480
	13.111	Finishing walls with Acrylic Smooth exterior paint of required shade :				
45	13.111.2	Old work (One or more coat applied @ 0.90 ltr/10 sqm).	Sqm	2000	74.75	149500
	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.				
46	15.2.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	cum	100	2007.1	200710
47	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	10	2928.1	29281
	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.				
48	15.7.4	In cement mortar	cum	50	1698.45	84922.5
49	15.25	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	Sqm	1500	219.75	329625
	15.28	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of:				
50	15.28.1	G.S. Sheet	Sqm	40	136	5440
51	15.56	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	Sqm	1000	45.05	45050
	17.0	SANITARY INSTALLATIONS				
	17.4	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :				

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52	17.4.1	One urinal basin with 5 litre white P.V.C. automatic flushing cistern	Each	22	5268.85	115914.7
	17.6	Providing and fixing one piece construction white vitreous china squatting plate with an integral longitudinal flushing pipe, white P.V.C. automatic flushing cistern, with fittings, standard size G.I. / PVC flush pipe for back and front flush with standard spreader pipes with fittings, G.I clamps and C.P. brass coupling complete, including painting of fittings and cutting and making good the walls and floors etc. wherever required :				
53	17.6.1	Single squatting plate with 5 litre P.V.C. automatic flushing cistern	Each	17	7752.6	131794.2
	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:				
54	17.7.10	Stainless Steel AISI-304(18/8) Round basin 405x355 mm with single 15 mm C.P. brass pillar tap	Each	12	2950.65	35407.8
	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				
55	17.10.1.1	510x1040 mm bowl depth 250 mm	Each	12	6008.45	72101.4
	17.13	Providing and fixing white vitreous china water closet squatting pan (Indian type) :				
56	17.13.2	Orissa pattern W.C. pan of size 580x440 mm	Each	22	2758.2	60680.4
57	17.15	Providing and fixing white vitreous china pedestal type (European type/ wash down type) water closet pan.	Each	22	2403.65	52880.3
58	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	14	6119.15	85668.1
59	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	23	1411.15	32456.45
60	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	6	942.15	5652.9
	17.35	Providing and fixing soil, waste and vent pipes :				
	17.35.1	100 mm dia				
61	17.35.1.1	Sand cast iron S&S pipe as per IS: 1729	Metre	220	1018.05	223971
62	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	22	146.3	3218.6
63	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	18	204.7	3684.6
	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.				

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64	17.73.1	450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms	Each	18	573.6	10324.8
	18.0	WATER SUPPLY				
	18.7S	C.P.V.C. PIPES				
	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, 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.				
65	18.8.1	15 mm nominal dia Pipes	Metre	40	441.15	17646
66	18.8.2	20 mm nominal dia Pipes	Metre	40	513.75	20550
67	18.8.3	25 mm nominal dia Pipes	Metre	40	626.05	25042
	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				
68	18.9.4	32 mm nominal dia Pipes	Metre	40	435.05	17402
69	18.9.5	40 mm nominal dia Pipes	Metre	200	559.2	111840
	18.21	Providing and fixing uplasticised PVC connection pipe with brass unions :				
	18.22	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :				
70	18.22.2	150 mm diameter	Each	22	190.1	4182.2
	18.31S	C.I. SLUICE VALVES/ FIRE HYDRANTS & FIXTURES				
	18.33	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) , i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :				
71	18.33.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	Each	9	10102.5	90922.5
72	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	8000	9.7	77600
	18.49S	C.P. BRASS FITTINGS				
	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				
73	18.49.1	15 mm nominal bore	Each	9	434.2	3907.8
	18.54S	PTMT FITTINGS				
	18.54	Providing and fixing PTMT bib cock of approved quality and colour.				
74	18.54.1	15mm nominal bore, 86 mm long, weighing not less than 88 gms	Each	50	109.85	5492.5

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	21.0	ALUMINIUM WORK				
	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				
75	21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	100	433.95	43395
	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)				
76	21.1.2.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	250	531.8	132950
	21.2	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.				
77	21.2.2	Pre-laminated particle board with decorative lamination on both sides	Sqm	25	951.05	23776.25
	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):				
78	21.3.1	With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	Sqm	100	1019.8	101980
	26.0	NEW TECHNOLOGIES AND MATERIALS				
	26.73S	PREFAB/PRECAST TECHNOLOGY				

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	26.86	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid door/window/clerestory windows & desertyory other Frames/Chowkhat comprising of virgin PVC polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) fabricated with miter joints after applying PVC solvent cement and screwed with full body threaded star headed SS screws having minimum frame density of 750 kg/cum, screw withdrawal strength of 2200 N (Face) & 1100 N (Edge), minimum compressive strength of 58 N/mm2, modulus of elasticity 900 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixed in position with M.S hold fast/lugs/SS dash fasteners of required dia and length complete as per direction of Engineer-In- Charge. (M.S hold fast/lugs or SS dash fasteners shall be paid for separately). Note: For WPC solid door/window frames, minus 5mm tolerance in dimensions i.e depth and width of profile shall be acceptable. Variation in profile dimensions on plus side shall be acceptable but no extra payment on this account shall be made.				
79	26.86.3	Frame size 50 x 100 mm	Metre	25	853	21325
	26.87	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid plain flush door shutter of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm2, modulus of elasticity 850 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In- Charge. (Note: stainless steel butt hinges and necessary S.S screws shall be paid separately)				
80	26.87.2	35 mm thick	Sqm	20	4556.05	91121
					Total	15332393.51
Item- 4	VIP LOUNGE RENOVATION AT PRR,ANR,CNI & BBM					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	13.0	FINISHING				
	13.44S	EXTERIOR FINISHING				
	13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
1	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	12600	158.95	2002770
	13.50	Applying priming coat:				
2	13.50.1	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	Sqm	5400	61.45	331830
	13.63	Painting with aluminium paint of approved brand and manufacture to give an even shade .				
3	13.63.1	Two or more coats on new work	Sqm	1600	121.45	194320

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4	13.80	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	Sqm	14800	123.85	1832980
	13.85	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.				
	13.98	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade:				
5	13.98.1	One or more coats on old work	Sqm	3600	90.85	327060
	13.108	Distempering with 1st quality acrylic distemper (ready made) having VOC content less than 50 gm per ltr. of approved manufacturer and of required shade and colour complete. as per manufacturer's specification.				
6	13.108.1	One or more coats on old work	Sqm	8200	50.6	414920
	13.109	Finishing walls with water proofing cement paint of required shade :				
7	13.109.1	Old work (one or more coats applied @ 2.20 kg/10 sqm) over priming coat of primer applied @ 0.80 ltrs/10 sqm complete including cost of Priming coat.	Sqm	6900	94.15	649635
	13.111	Finishing walls with Acrylic Smooth exterior paint of required shade :				
8	13.111.2	Old work (One or more coat applied @ 0.90 ltr/10 sqm).	Sqm	5400	74.75	403650
	17.0	SANITARY INSTALLATIONS				
9	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	5	1411.15	7055.75
					Total	6164220.75
Item- 5	VIP LOUNGE RENOVATION at JOC, MDKD & BURN					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	13.0	FINISHING				
	13.44S	EXTERIOR FINISHING				
	13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
1	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	4200	158.95	667590
	13.50	Applying priming coat:				
2	13.50.1	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	Sqm	1800	61.45	110610
	13.63	Painting with aluminium paint of approved brand and manufacture to give an even shade .				
3	13.63.1	Two or more coats on new work	Sqm	1000	121.45	121450
4	13.80	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	Sqm	4900	123.85	606865
	13.85	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.				
	13.98	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade:				
5	13.98.1	One or more coats on old work	Sqm	1200	90.85	109020
	13.108	Distempering with 1st quality acrylic distemper (ready made) having VOC content less than 50 gm per ltr. of approved manufacturer and of required shade and colour complete. as per manufacturer's specification.				

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6	13.108.1	One or more coats on old work	Sqm	2600	50.6	131560
	13.109	Finishing walls with water proofing cement paint of required shade :				
7	13.109.1	Old work (one or more coats applied @ 2.20 kg/10 sqm) over priming coat of primer applied @ 0.80 litres/10 sqm complete including cost of Priming coat.	Sqm	2300	94.15	216545
	13.111	Finishing walls with Acrylic Smooth exterior paint of required shade :				
8	13.111.2	Old work (One or more coat applied @ 0.90 ltr/10 sqm).	Sqm	1800	74.75	134550
	17.0	SANITARY INSTALLATIONS				
9	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	10	1411.15	14111.5
					Total	2112301.50
Item- 6	Facility for DIVYANGJAN UNDER ABSS at JOC, MDKD & BURN					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	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	4.1.4	1:2:4 (1 Cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 40 mm nominal size derived from natural sources)	cum	50	7226.95	361347.5
	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 :				
2	5.1.3	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	25	7945.65	198641.25
	10.0	STEEL WORK				
3	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	5200	612.25	3183700
	12.0	ROOFING				
	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				
4	12.42.5.2	110 mm bend	Each	45	132	5940

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	12.43	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.				
5	12.43.2	110 mm	Each	360	309.5	111420
6	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	2700	671.55	1813185
	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 :				
7	12.51.1	Ridges plain (500 - 600mm)	Metre	270	450.6	121662
	16.0	ROAD WORK				
	16.49S	MISCELLANEOUS				
8	16.73	Dry stone pitching 22.5 cm thick laid in courses and required profile with hammer dressed stones having no side less than 15 cm, with minimum depth of 20 cm including preparing the bedding surface etc. all complete. (Payment for Stone to be made separately).	Sqm	800	542.85	434280
	17.0	SANITARY INSTALLATIONS				
	17.4	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :				
9	17.4.1	One urinal basin with 5 litre white P.V.C. automatic flushing cistern	Each	18	5268.85	94839.3
	17.6	Providing and fixing one piece construction white vitreous china squatting plate with an integral longitudinal flushing pipe, white P.V.C. automatic flushing cistern, with fittings, standard size G.I. / PVC flush pipe for back and front flush with standard spreader pipes with fittings, G.I clamps and C.P. brass coupling complete, including painting of fittings and cutting and making good the walls and floors etc. wherever required :				
10	17.6.1	Single squatting plate with 5 litre P.V.C. automatic flushing cistern	Each	18	7752.6	139546.8

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	17.7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:				
11	17.7.10	Stainless Steel AISI-304(18/8) Round basin 405x355 mm with single 15 mm C.P. brass pillar tap	Each	9	2950.65	26555.85
	17.13	Providing and fixing white vitreous china water closet squatting pan (Indian type) :				
12	17.13.2	Orissa pattern W.C. pan of size 580x440 mm	Each	18	2758.2	49647.6
13	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	9	6119.15	55072.35
14	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	18	1411.15	25400.7
15	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	9	942.15	8479.35
	17.35	Providing and fixing soil, waste and vent pipes :				
	17.35.1	100 mm dia				
16	17.35.1.1	Sand cast iron S&S pipe as per IS: 1729	Metre	240	1018.05	244332
17	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	9	146.3	1316.7
18	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	9	204.7	1842.3
	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.				
19	17.73.1	450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms	Each	9	573.6	5162.4
	18.0	WATER SUPPLY				
	18.4S	PP-R PIPES				
	18.6	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801 UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. - External work				
20	18.6.5	PN - 10 Pipe, 50 mm OD (SDR-11)	Metre	90	568.6	51174
	18.7S	C.P.V.C. PIPES				

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	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge, Concealed work, including cutting chases and making good the wall etc.				
21	18.8.1	15 mm nominal dia Pipes	Metre	180	441.15	79407
22	18.8.2	20 mm nominal dia Pipes	Metre	180	513.75	92475
	18.21	Providing and fixing uplasticised PVC connection pipe with brass unions :				
	18.22	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :				
23	18.22.2	150 mm diameter	Each	9	190.1	1710.9
	18.49S	C.P. BRASS FITTINGS				
	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				
24	18.49.1	15 mm nominal bore	Each	18	434.2	7815.6
	18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931				
25	18.53.1	15mm nominal bore	Each	18	500.35	9006.3
	18.54S	PTMT FITTINGS				
	18.54	Providing and fixing PTMT bib cock of approved quality and colour.				
26	18.54.1	15mm nominal bore, 86 mm long, weighing not less than 88 gms	Each	9	109.85	988.65
	21.0	ALUMINIUM WORK				
	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				
27	21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	900	433.95	390555
	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)				
28	21.1.2.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	1750	531.8	930650
					Total	8446153.55
Item- 7	Improvement of Traffic circulation area & Beautification of circulating area at ANARA					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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	2.0	EARTH WORK				
1	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	50	368.65	18432.5
2	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	35	2161.2	75642
	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.				
3	2.28.1	All kinds of soil	Sqm	2500	28.15	70375
	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 :				
4	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	50	8364.2	418210
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
5	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	225	307.95	69288.75
6	5.9.2	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	Sqm	500	669.55	334775
	15.0	DISMANTLING AND DEMOLISHING				
	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.				
7	15.7.4	In cement mortar	cum	110	1698.45	186829.5
8	15.59	Dismantling of flexible pavement (bituminous courses) by mechanical means and disposal of dismantled material up to a lead of 1 kilometre, as per direction of Engineer-in-charge.	cum	100	347.9	34790
	16.0	ROAD WORK				
	16.1S	ROADS				
9	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	50	20.55	1027.5
	16.3	Supplying and stacking at site.				
10	16.3.1	90 mm to 45 mm size stone aggregate	cum	130	1937.6	251888
11	16.3.2	63 mm to 45 mm size stone aggregate	cum	115	1624.5	186817.5
12	16.3.3	53 mm to 22.4 mm size stone aggregate	cum	115	1837.25	211283.75
13	16.3.10	Moorum	cum	70	888.3	62181
14	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	70	865.8	60606

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	16.31	Providing and applying tack coat using bitumen emulsion conforming to IS:8887, using emulsion pressure distributor including preparing the surface & cleaning with mechanical broom.				
	16.31.2	With medium setting bitumen emulsion				
15	16.31.2.2	On bituminous surface @ 0.25kg/sqm	Sqm	400	10.85	4340
	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).				
16	16.33.1	With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt	Sqm	400	227	90800
	16.36	Providing and laying Bitumen Penetration Macadam with hard stone aggregate of quality, size and grading as specified, with bitumen of suitable penetration grade, including required key aggregate as specified, spreading coarse aggregate with the help of self propelled/ tipper tail mounted aggregate spreader and applying bitumen by a pressure distributor and then spreading key aggregate with the help of aggregate spreader complete, including consolidation with road roller of minimum 8 to 10 tonne capacity to achieve specified values of compaction and surface accuracy :				
17	16.36.1	For 50mm compacted thickness using coarse aggregate of size 50-20 mm graded @ 0.60 cum per 10 sqm key aggregate of size 12.5 mm graded @ 0.15 cum per 10 sqm. With paving asphalt grade VG - 10 @ 50 kg/ 10 sqm.	Sqm	400	414.2	165680
	16.37	Providing and laying bitumen mastic wearing course (as per specifications) with industrial bitumen of grade 85/25 conforming to IS : 702, prepared by using mastic cooker and laid to required level and slope, including providing antiskid surface with bitumen precoated fine grained hard stone chipping of approved size at the rate of 0.005 cum per 10 sqm and at approximate spacing of 10 cm centre to centre in both directions, pressed into surface protruding 1 mm to 4 mm over mastic surface, including cleaning the surface, removal of debris etc. all complete. (Considering bitumen using 10.2% as per MORTH specification).				
18	16.37.1	25 mm thick	Sqm	500	726.95	363475
	16.49S	MISCELLANEOUS				
19	16.49	Making bell mouth opening/ entrance of size 100x50x50 cm for drainage pipe under footpath, including providing cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) for shape of bell mouth, including plastering providing and fixing precast R.C.C./ S.F.R.C. slab including plastering with cement mortar 1:3 (1 cement : 3 fine sand) of 6 mm thickness on exposed surface of the slab & bell mouth including centring, shuttering & neat cement punning inside the bell mouth etc. all complete.	Each	15	2712.2	40683

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20	16.50	Providing and fixing Glow studs of size 100x20 mm made of heavy duty body shall be moulded ASA (Acrylic styrene Acryloretrite) or HIP (High impact polystyrene) or ABS having electronically welded micro- prismatic lens with abrasion resistant coating as approved by Engineer in charge. The glow stud shall support a load of 13635 kg tested in accordance with ASTM D4280. The slope of retro- reflective surface shall be 35 (+/-5) degrees to base .The reflective panels on both sides with at least 12 cm of reflective area up each side. The luminance intensity should be as per the specification and shall be tested as described in ASTM I: 809 as recommended in BS: 873 part 4 : 1973. The studs shall be fixed to the Road surface using the adhesive conforming to IS, as per procedure recommended by the manufacturer complete and as per direction of Engineer-in-charge.	Each	150	175.5	26325
21	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	10	8613.55	86135.5
22	16.72	Supplying and stacking of hard stone (for stone pitching) 22.5 cm thick at site.	cum	100	1060.8	106080
	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.				
23	16.91.2	80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.	Sqm	50	1011.2	50560
					Total	2916225.00
Item- 8	Improvement of Traffic circulation area & Beautification of circulating area at CHANDIL					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	2.0	EARTH WORK				
1	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	50	368.65	18432.5
2	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	35	2161.2	75642
	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.				
3	2.28.1	All kinds of soil	Sqm	2500	28.15	70375
	5.0	REINFORCED CEMENT CONCRETE				
	5.1S	CAST IN SITU				

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	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 :				
4	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	50	8364.2	418210
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
5	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	225	307.95	69288.75
6	5.9.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	Sqm	500	669.55	334775
	15.0	DISMANTLING AND DEMOLISHING				
	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.				
7	15.7.4	In cement mortar	cum	110	1698.45	186829.5
8	15.59	Dismantling of flexible pavement (bituminous courses) by mechanical means and disposal of dismantled material up to a lead of 1 kilometre, as per direction of Engineer-in-charge.	cum	100	347.9	34790
	16.0	ROAD WORK				
	16.1S	ROADS				
9	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	50	20.55	1027.5
	16.3	Supplying and stacking at site.				
10	16.3.1	90 mm to 45 mm size stone aggregate	cum	130	1937.6	251888
11	16.3.2	63 mm to 45 mm size stone aggregate	cum	115	1624.5	186817.5
12	16.3.3	53 mm to 22.4 mm size stone aggregate	cum	115	1837.25	211283.75
13	16.3.10	Moorum	cum	70	888.3	62181
14	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	70	865.8	60606
	16.31	Providing and applying tack coat using bitumen emulsion conforming to IS:8887, using emulsion pressure distributor including preparing the surface & cleaning with mechanical broom.				
	16.31.2	With medium setting bitumen emulsion				
15	16.31.2.2	On bituminous surface @ 0.25kg/sqm	Sqm	400	10.85	4340
	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).				
16	16.33.1	With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt	Sqm	400	227	90800

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	16.36	Providing and laying Bitumen Penetration Macadam with hard stone aggregate of quality, size and grading as specified, with bitumen of suitable penetration grade, including required key aggregate as specified, spreading coarse aggregate with the help of self propelled/ tipper tail mounted aggregate spreader and applying bitumen by a pressure distributor and then spreading key aggregate with the help of aggregate spreader complete, including consolidation with road roller of minimum 8 to 10 tonne capacity to achieve specified values of compaction and surface accuracy :				
17	16.36.1	For 50mm compacted thickness using coarse aggregate of size 50-20 mm graded @ 0.60 cum per 10 sqm key aggregate of size 12.5 mm graded @ 0.15 cum per 10 sqm. With paving asphalt grade VG - 10 @ 50 kg/ 10 sqm.	Sqm	400	414.2	165680
	16.37	Providing and laying bitumen mastic wearing course (as per specifications) with industrial bitumen of grade 85/25 conforming to IS : 702, prepared by using mastic cooker and laid to required level and slope, including providing antiskid surface with bitumen precoated fine grained hard stone chipping of approved size at the rate of 0.005 cum per 10 sqm and at approximate spacing of 10 cm centre to centre in both directions, pressed into surface protruding 1 mm to 4 mm over mastic surface, including cleaning the surface, removal of debris etc. all complete. (Considering bitumen using 10.2% as per MORTH specification).				
18	16.37.1	25 mm thick	Sqm	500	726.95	363475
	16.49S	MISCELLANEOUS				
19	16.49	Making bell mouth opening/ entrance of size 100x50x50 cm for drainage pipe under footpath, including providing cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) for shape of bell mouth, including plastering providing and fixing precast R.C.C./ S.F.R.C. slab including plastering with cement mortar 1:3 (1 cement : 3 fine sand) of 6 mm thickness on exposed surface of the slab & bell mouth including centring, shuttering & neat cement punning inside the bell mouth etc. all complete.	Each	15	2712.2	40683
20	16.50	Providing and fixing Glow studs of size 100x20 mm made of heavy duty body shall be moulded ASA (Acrylic styrene Acryloretrite) or HIP (High impact polystyrene) or ABS having electronically welded micro- prismatic lens with abrasion resistant coating as approved by Engineer in charge. The glow stud shall support a load of 13635 kg tested in accordance with ASTM D4280. The slope of retro- reflective surface shall be 35 (+/-5) degrees to base .The reflective panels on both sides with at least 12 cm of reflective area up each side. The luminance intensity should be as per the specification and shall be tested as described in ASTM I: 809 as recommended in BS: 873 part 4 : 1973. The studs shall be fixed to the Road surface using the adhesive conforming to IS, as per procedure recommended by the manufacturer complete and as per direction of Engineer-in-charge.	Each	150	175.5	26325

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21	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	10	8613.55	86135.5
22	16.72	Supplying and stacking of hard stone (for stone pitching) 22.5 cm thick at site.	cum	100	1060.8	106080
	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.				
23	16.91.2	80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.	Sqm	50	1011.2	50560
					Total	2916225.00
Item- 9	Improvement of Traffic circulation area & Beautification of circulating area at BBM					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	2.0	EARTH WORK				
1	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	50	368.65	18432.5
2	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	35	2161.2	75642
	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.				
3	2.28.1	All kinds of soil	Sqm	2500	28.15	70375
	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 :				
4	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	50	8364.2	418210
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
5	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	225	307.95	69288.75
6	5.9.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	Sqm	500	669.55	334775
	15.0	DISMANTLING AND DEMOLISHING				

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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.				
7	15.7.4	In cement mortar	cum	110	1698.45	186829.5
8	15.59	Dismantling of flexible pavement (bituminous courses) by mechanical means and disposal of dismantled material up to a lead of 1 kilometre, as per direction of Engineer-in-charge.	cum	100	347.9	34790
	16.0	ROAD WORK				
	16.1S	ROADS				
9	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	50	20.55	1027.5
	16.3	Supplying and stacking at site.				
10	16.3.1	90 mm to 45 mm size stone aggregate	cum	130	1937.6	251888
11	16.3.2	63 mm to 45 mm size stone aggregate	cum	115	1624.5	186817.5
12	16.3.3	53 mm to 22.4 mm size stone aggregate	cum	115	1837.25	211283.75
13	16.3.10	Moorum	cum	70	888.3	62181
14	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	70	865.8	60606
	16.31	Providing and applying tack coat using bitumen emulsion conforming to IS:8887, using emulsion pressure distributor including preparing the surface & cleaning with mechanical broom.				
	16.31.2	With medium setting bitumen emulsion				
15	16.31.2.2	On bituminous surface @ 0.25kg/sqm	Sqm	400	10.85	4340
	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).				
16	16.33.1	With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt	Sqm	400	227	90800
	16.36	Providing and laying Bitumen Penetration Macadam with hard stone aggregate of quality, size and grading as specified, with bitumen of suitable penetration grade, including required key aggregate as specified, spreading coarse aggregate with the help of self propelled/ tipper tail mounted aggregate spreader and applying bitumen by a pressure distributor and then spreading key aggregate with the help of aggregate spreader complete, including consolidation with road roller of minimum 8 to 10 tonne capacity to achieve specified values of compaction and surface accuracy :				
17	16.36.1	For 50mm compacted thickness using coarse aggregate of size 50-20 mm graded @ 0.60 cum per 10 sqm key aggregate of size 12.5 mm graded @ 0.15 cum per 10 sqm. With paving asphalt grade VG - 10 @ 50 kg/ 10 sqm.	Sqm	400	414.2	165680

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	16.37	Providing and laying bitumen mastic wearing course (as per specifications) with industrial bitumen of grade 85/25 conforming to IS : 702, prepared by using mastic cooker and laid to required level and slope, including providing antiskid surface with bitumen precoated fine grained hard stone chipping of approved size at the rate of 0.005 cum per 10 sqm and at approximate spacing of 10 cm centre to centre in both directions, pressed into surface protruding 1 mm to 4 mm over mastic surface, including cleaning the surface, removal of debris etc. all complete. (Considering bitumen using 10.2% as per MORTH specification).				
18	16.37.1	25 mm thick	Sqm	500	726.95	363475
	16.49S	MISCELLANEOUS				
19	16.49	Making bell mouth opening/ entrance of size 100x50x50 cm for drainage pipe under footpath, including providing cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) for shape of bell mouth, including plastering providing and fixing precast R.C.C./ S.F.R.C. slab including plastering with cement mortar 1:3 (1 cement : 3 fine sand) of 6 mm thickness on exposed surface of the slab & bell mouth including centring, shuttering & neat cement punning inside the bell mouth etc. all complete.	Each	15	2712.2	40683
20	16.50	Providing and fixing Glow studs of size 100x20 mm made of heavy duty body shall be moulded ASA (Acrylic styrene Acryloretrite) or HIP (High impact polystyrene) or ABS having electronically welded micro- prismatic lens with abrasion resistant coating as approved by Engineer in charge. The glow stud shall support a load of 13635 kg tested in accordance with ASTM D4280. The slope of retro- reflective surface shall be 35 (+/-5) degrees to base .The reflective panels on both sides with at least 12 cm of reflective area up each side. The luminance intensity should be as per the specification and shall be tested as described in ASTM I: 809 as recommended in BS: 873 part 4 : 1973. The studs shall be fixed to the Road surface using the adhesive conforming to IS, as per procedure recommended by the manufacturer complete and as per direction of Engineer-in-charge.	Each	150	175.5	26325
21	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	10	8613.55	86135.5
22	16.72	Supplying and stacking of hard stone (for stone pitching) 22.5 cm thick at site.	cum	100	1060.8	106080

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	16.91	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in-Charge.				
23	16.91.2	80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.	Sqm	50	1011.2	50560
					Total	2916225.00
Item- 10	Improvement of Traffic circulation area & Beautification of circulating area at MADHUKUNDA					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	2.0	EARTH WORK				
1	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	50	368.65	18432.5
2	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	35	2161.2	75642
	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.				
3	2.28.1	All kinds of soil	Sqm	2500	28.15	70375
	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 :				
4	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	50	8364.2	418210
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
5	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	225	307.95	69288.75
6	5.9.2	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	Sqm	500	669.55	334775
	15.0	DISMANTLING AND DEMOLISHING				
	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.				
7	15.7.4	In cement mortar	cum	110	1698.45	186829.5
8	15.59	Dismantling of flexible pavement (bituminous courses) by mechanical means and disposal of dismantled material up to a lead of 1 kilometre, as per direction of Engineer-in-charge.	cum	100	347.9	34790
	16.0	ROAD WORK				
	16.1S	ROADS				

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9	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	50	20.55	1027.5
	16.3	Supplying and stacking at site.				
10	16.3.1	90 mm to 45 mm size stone aggregate	cum	130	1937.6	251888
11	16.3.2	63 mm to 45 mm size stone aggregate	cum	115	1624.5	186817.5
12	16.3.3	53 mm to 22.4 mm size stone aggregate	cum	115	1837.25	211283.75
13	16.3.10	Moorum	cum	70	888.3	62181
14	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	70	865.8	60606
	16.31	Providing and applying tack coat using bitumen emulsion conforming to IS:8887, using emulsion pressure distributor including preparing the surface & cleaning with mechanical broom.				
	16.31.2	With medium setting bitumen emulsion				
15	16.31.2.2	On bituminous surface @ 0.25kg/sqm	Sqm	400	10.85	4340
	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).				
16	16.33.1	With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt	Sqm	400	227	90800
	16.36	Providing and laying Bitumen Penetration Macadam with hard stone aggregate of quality, size and grading as specified, with bitumen of suitable penetration grade, including required key aggregate as specified, spreading coarse aggregate with the help of self propelled/ tipper tail mounted aggregate spreader and applying bitumen by a pressure distributor and then spreading key aggregate with the help of aggregate spreader complete, including consolidation with road roller of minimum 8 to 10 tonne capacity to achieve specified values of compaction and surface accuracy :				
17	16.36.1	For 50mm compacted thickness using coarse aggregate of size 50-20 mm graded @ 0.60 cum per 10 sqm key aggregate of size 12.5 mm graded @ 0.15 cum per 10 sqm. With paving asphalt grade VG - 10 @ 50 kg/ 10 sqm.	Sqm	400	414.2	165680
	16.37	Providing and laying bitumen mastic wearing course (as per specifications) with industrial bitumen of grade 85/25 conforming to IS : 702, prepared by using mastic cooker and laid to required level and slope, including providing antiskid surface with bitumen precoated fine grained hard stone chipping of approved size at the rate of 0.005 cum per 10 sqm and at approximate spacing of 10 cm centre to centre in both directions, pressed into surface protruding 1 mm to 4 mm over mastic surface, including cleaning the surface, removal of debris etc. all complete. (Considering bitumen using 10.2% as per MORTH specification).				
18	16.37.1	25 mm thick	Sqm	500	726.95	363475
	16.49S	MISCELLANEOUS				

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19	16.49	Making bell mouth opening/ entrance of size 100x50x50 cm for drainage pipe under footpath, including providing cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) for shape of bell mouth, including plastering providing and fixing precast R.C.C./ S.F.R.C. slab including plastering with cement mortar 1:3 (1 cement : 3 fine sand) of 6 mm thickness on exposed surface of the slab & bell mouth including centring, shuttering & neat cement punning inside the bell mouth etc. all complete.	Each	15	2712.2	40683
20	16.50	Providing and fixing Glow studs of size 100x20 mm made of heavy duty body shall be moulded ASA (Acrylic styrene Acryloretrite) or HIP (High impact polystyrene) or ABS having electronically welded micro- prismatic lens with abrasion resistant coating as approved by Engineer in charge. The glow stud shall support a load of 13635 kg tested in accordance with ASTM D4280. The slope of retro- reflective surface shall be 35 (+/-5) degrees to base .The reflective panels on both sides with at least 12 cm of reflective area up each side. The luminance intensity should be as per the specification and shall be tested as described in ASTM I: 809 as recommended in BS: 873 part 4 : 1973. The studs shall be fixed to the Road surface using the adhesive conforming to IS, as per procedure recommended by the manufacturer complete and as per direction of Engineer-in-charge.	Each	150	175.5	26325
21	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	10	8613.55	86135.5
22	16.72	Supplying and stacking of hard stone (for stone pitching) 22.5 cm thick at site.	cum	100	1060.8	106080
	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.				
23	16.91.2	80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.	Sqm	50	1011.2	50560
					Total	2916225.00
Item- 11	Improvement of Traffic circulation area & Beautification of circulating area at BURNPUR					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	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 :				

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1	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	70	7365.15	515560.5
	16.0	ROAD WORK				
	16.1S	ROADS				
2	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	600	180.5	108300
	16.3	Supplying and stacking at site.				
3	16.3.3	53 mm to 22.4 mm size stone aggregate	cum	80	1837.25	146980
4	16.3.10	Moorum	cum	10	888.3	8883
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	90	865.8	77922
	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 :				
6	16.30.2	On bituminous surface @ 0.50 Kg / sqm	Sqm	500	36.6	18300
	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 cum 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).				
7	16.33.1	With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt	Sqm	500	227	113500
	16.37	Providing and laying bitumen mastic wearing course (as per specifications) with industrial bitumen of grade 85/25 conforming to IS : 702, prepared by using mastic cooker and laid to required level and slope, including providing antiskid surface with bitumen precoated fine grained hard stone chipping of approved size at the rate of 0.005 cum per 10 sqm and at approximate spacing of 10 cm centre to centre in both directions, pressed into surface protruding 1 mm to 4 mm over mastic surface, including cleaning the surface, removal of debris etc. all complete. (Considering bitumen using 10.2% as per MORTH specification).				
8	16.37.2	40 mm thick	Sqm	3500	1163.1	4070850
					Total	5060295.50
Item- 12	Improvement of Traffic circulation area & Beautification of circulating area at JOC					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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	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	4.1.3	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	70	7365.15	515560.5
	16.0	ROAD WORK				
	16.1S	ROADS				
2	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	600	180.5	108300
	16.3	Supplying and stacking at site.				
3	16.3.3	53 mm to 22.4 mm size stone aggregate	cum	80	1837.25	146980
4	16.3.10	Moorum	cum	10	888.3	8883
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	90	865.8	77922
	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 :				
6	16.30.2	On bituminous surface @ 0.50 Kg / sqm	Sqm	500	36.6	18300
	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).				
7	16.33.1	With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt	Sqm	500	227	113500
	16.37	Providing and laying bitumen mastic wearing course (as per specifications) with industrial bitumen of grade 85/25 conforming to IS : 702, prepared by using mastic cooker and laid to required level and slope, including providing antiskid surface with bitumen precoated fine grained hard stone chipping of approved size at the rate of 0.005 cum per 10 sqm and at approximate spacing of 10 cm centre to centre in both directions, pressed into surface protruding 1 mm to 4 mm over mastic surface, including cleaning the surface, removal of debris etc. all complete. (Considering bitumen using 10.2% as per MORTH specification).				

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8	16.37.2	40 mm thick	Sqm	3500	1163.1	4070850
					Total	5060295.50
Item- 13	Improvement of Traffic circulation area & Beautification of circulating area at PRR					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	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	4.1.3	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	70	7365.15	515560.5
	16.0	ROAD WORK				
	16.1S	ROADS				
2	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	600	180.5	108300
	16.3	Supplying and stacking at site.				
3	16.3.3	53 mm to 22.4 mm size stone aggregate	cum	80	1837.25	146980
4	16.3.10	Moorum	cum	10	888.3	8883
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	90	865.8	77922
	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 :				
6	16.30.2	On bituminous surface @ 0.50 Kg / sqm	Sqm	500	36.6	18300
	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).				
7	16.33.1	With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt	Sqm	500	227	113500

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	16.37	Providing and laying bitumen mastic wearing course (as per specifications) with industrial bitumen of grade 85/25 conforming to IS : 702, prepared by using mastic cooker and laid to required level and slope, including providing antiskid surface with bitumen precoated fine grained hard stone chipping of approved size at the rate of 0.005 cum per 10 sqm and at approximate spacing of 10 cm centre to centre in both directions, pressed into surface protruding 1 mm to 4 mm over mastic surface, including cleaning the surface, removal of debris etc. all complete. (Considering bitumen using 10.2% as per MORTH specification).				
8	16.37.2	40 mm thick	Sqm	3500	1163.1	4070850
					Total	5060295.50
Item- 14	ENTRANCE PORCHES AT PRR,ANR,CNI & BBM					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	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	75	205.45	15408.75
	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 :				
2	4.1.4	1:2:4 (1 Cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 40 mm nominal size derived from natural sources)	cum	22	7226.95	158992.9
	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 :				
3	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	50	8364.2	418210
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
4	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	200	307.95	61590
	6.0	MASONRY WORK				
	6.26S	EXPOSED BRICK WALL				
	6.34	Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in :				
5	6.34.2	Cement mortar 1:6 (1 cement : 6 Coarse sand)	cum	225	7676.3	1727167.5
	7.0	STONE WORK				
	7.38	Stone tile work for wall lining upto 10 m height with special adhesive over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement with an admixture of pigment to match the stone shade.				
	7.38.1	8mm thick (mirror polished and machine cut edge)				

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6	7.38.1.1	Granite stone of any colour and shade	Sqm	300	2675.7	802710
	10.0	STEEL WORK				
7	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	750	612.25	459187.5
					Total	3643266.65
Item- 15	ENTRANCE PORCHES at MADHUKUNDA					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	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	15	205.45	3081.75
	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 :				
2	4.1.4	1:2:4 (1 Cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 40 mm nominal size derived from natural sources)	cum	5	7226.95	36134.75
	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 :				
3	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	10	8364.2	83642
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
4	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	40	307.95	12318
	6.0	MASONRY WORK				
	6.26S	EXPOSED BRICK WALL				
	6.34	Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in :				
5	6.34.2	Cement mortar 1:6 (1 cement : 6 Coarse sand)	cum	25	7676.3	191907.5
	7.0	STONE WORK				

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	7.38	Stone tile work for wall lining upto 10 m height with special adhesive over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement with an admixture of pigment to match the stone shade.				
	7.38.1	8mm thick (mirror polished and machine cut edge)				
6	7.38.1.1	Granite stone of any colour and shade	Sqm	50	2675.7	133785
	10.0	STEEL WORK				
7	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	150	612.25	91837.5
					Total	552706.50
Item- 16	ENTRANCE PORCHES at JOC					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	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	60	205.45	12327
	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 :				
2	4.1.4	1:2:4 (1 Cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 40 mm nominal size derived from natural sources)	cum	7	7226.95	50588.65
	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 :				
3	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	40	8364.2	334568
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
4	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	80	307.95	24636
	6.0	MASONRY WORK				
	6.26S	EXPOSED BRICK WALL				
	6.34	Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in :				

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5	6.34.2	Cement mortar 1:6 (1 cement : 6 Coarse sand)	cum	100	7676.3	767630
	7.0	STONE WORK				
	7.38	Stone tile work for wall lining upto 10 m height with special adhesive over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement with an admixture of pigment to match the stone shade.				
	7.38.1	8mm thick (mirror polished and machine cut edge)				
6	7.38.1.1	Granite stone of any colour and shade	Sqm	100	2675.7	267570
	10.0	STEEL WORK				
7	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	250	612.25	153062.5
					Total	1610382.15
Item- 17	Improvement of PF Surfacing at PRR,ANR,CNI & BBM					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	2.0	EARTH WORK				
	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
1	2.8.1	All kinds of soil.	cum	20	286.85	5737
2	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	500	2161.2	1080600
	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 :				
3	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	44	7365.15	324066.6
	5.0	REINFORCED CEMENT CONCRETE				
	5.12S	PRE-CAST RCC				
4	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	144	9673.5	1392984
	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:				

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5	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	64	6658.25	426128
	6.12S	HALF BRICK MASONRY				
	6.12	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :				
6	6.12.2	cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm	120	837.85	100542
	6.26S	EXPOSED BRICK WALL				
	6.34	Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in :				
7	6.34.2	Cement mortar 1:6 (1 cement : 6 Coarse sand)	cum	620	7676.3	4759306
	11.0	FLOORING				
	11.41S	VITRIFIED FLOOR TILES				
	11.55	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge :				
8	11.55.1	Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	Sqm	2200	2589.9	5697780
	26.0	NEW TECHNOLOGIES AND MATERIALS				
9	26.6A	Providing, erecting, laying and fixing in position in 3.5 to 4 mm thick bamboo mat corrugated sheet (BMCS) as per IS: 15476-2004 in roofing with self drilling screws along with EPDM washers complete or with galvanized iron J or L hooks 8mm dia G.I. plain and bitumen washers etc, all complete as per direction of Engineer-in-Charge.	Sqm	1200	5188.65	6226380
10	26.6B	Providing and fixing in position ridges of 3.5 to 4 mm thick bamboo mat ridge cap (BMRC) as per IS: 15476-2004 in roofing with self drilling screws along with EPDM washers complete or with galvanized iron J or L hooks 8mm dia G.I. plain and bitumen washers etc, all complete as per direction of Engineer-in-Charge.	Metre	300	4152.45	1245735
					Total	21259258.60
Item- 18	ENTRANCE PORCHES at BURNPUR					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	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	60	205.45	12327
	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 :				
2	4.1.4	1:2:4 (1 Cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 40 mm nominal size derived from natural sources)	cum	7	7226.95	50588.65
	5.0	REINFORCED CEMENT CONCRETE				

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	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 :				
3	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	30	8364.2	250926
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
4	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	80	307.95	24636
	6.0	MASONRY WORK				
	6.26S	EXPOSED BRICK WALL				
	6.34	Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in :				
5	6.34.2	Cement mortar 1:6 (1 cement : 6 Coarse sand)	cum	100	7676.3	767630
	7.0	STONE WORK				
	7.38	Stone tile work for wall lining upto 10 m height with special adhesive over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement with an admixture of pigment to match the stone shade.				
	7.38.1	8mm thick (mirror polished and machine cut edge)				
6	7.38.1.1	Granite stone of any colour and shade	Sqm	100	2675.7	267570
	10.0	STEEL WORK				
7	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	250	612.25	153062.5
					Total	1526740.15
Item- 19	FACADE IMPROVEMENT AND ELEVATION AT PRR,ANR,CNI & BBM					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	2.0	EARTH WORK				
	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
1	2.8.1	All kinds of soil.	cum	91	286.85	26103.35
2	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	15	2161.2	32418
	4.0	CONCRETE WORK				
	4.1S	CEMENT CONCRETE (CAST IN SITU)				

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	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 :				
3	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	36	7365.15	265145.4
	5.0	REINFORCED CEMENT CONCRETE				
	5.12S	PRE-CAST RCC				
4	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	54	9673.5	522369
	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:				
5	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	124	6658.25	825623
	6.12S	HALF BRICK MASONRY				
	6.12	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :				
6	6.12.2	cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm	90	837.85	75406.5
	6.26S	EXPOSED BRICK WALL				
	6.34	Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in :				
7	6.34.2	Cement mortar 1:6 (1 cement : 6 Coarse sand)	cum	150	7676.3	1151445
	8.0	CLADDING WORK				
	8.20S	STONE WORK DRY CLADDING				

**ADRA DIVISION-ENGG/SOUTH EASTERN RLY
TENDER DOCUMENT**

Tender No: E-DRM-Engg-ADRA-19-23

Closing Date/Time: 21/04/2023 15:00

8	8.32	<p>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.</p>	Sqm	1600	4474.2	7158720
	9.0	WOOD AND P.V.C. WORK				
	9.40S	MISCELLANEOUS-WOOD WORK				
	9.48	<p>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.</p>				
9	9.48.2	<p>Fixed to openings /wooden frames with rawl plugs screws etc.</p>	Kg	600	197.7	118620
	9.105S	GYPSUM BOARD PARTITIONS				

**ADRA DIVISION-ENGG/SOUTH EASTERN RLY
TENDER DOCUMENT**

Tender No: E-DRM-Engg-ADRA-19-23

Closing Date/Time: 21/04/2023 15:00

	9.147A	Providing and fixing factory made uPVC white colour casement/casement cum fixed glazed windows comprising of uPVC multi-chambered frame, sash and mullion (where ever required) 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), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, stainless steel (SS 304 grade) friction hinges, zinc alloy (white powder coated) casement handles, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded 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 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.				
10	9.147A.1	Casement window single panel with S.S. friction hinges (300 x 19 x 1.9 mm), made of (small series) frame 47 x 50 mm & sash 47 x 68 mm both having wall thickness of 1.9 +/- 0.2 mm and single glass pane glazing bead of appropriate dimension. (Area of window upto 0.75 sqm.)	Sqm	150	10443.75	1566562.5
	10.0	STEEL WORK				
11	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	1500	111.95	167925
	10.25	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
12	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	Kg	360	142.3	51228
	12.0	ROOFING				
	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.				
13	12.50	Providing and fixing precoated 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	300	671.55	201465

**ADRA DIVISION-ENGG/SOUTH EASTERN RLY
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Tender No: E-DRM-Engg-ADRA-19-23

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	12.51	Providing and fixing precoated 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 :				
14	12.51.1	Ridges plain (500 - 600mm)	Metre	75	450.6	33795
	13.0	FINISHING				
	13.1S	CEMENT PLASTER (IN FINE SAND)				
	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
15	13.2.2	1:6 (1 cement: 6 fine sand)	Sqm	3500	324.3	1135050
	13.16S	6MM CEMENT PLASTER				
16	13.18	Neat cement punning.	Sqm	360	67.8	24408
	13.85	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.				
	13.98	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade:				
17	13.98.1	One or more coats on old work	Sqm	1500	90.85	136275
	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.				
18	15.2.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	cum	55	2007.1	110390.5
19	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	9	2928.1	26352.9
	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.				
20	15.7.4	In cement mortar	cum	59	1698.45	100208.55
	15.28	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of:				
21	15.28.1	G.S. Sheet	Sqm	60	136	8160
	16.0	ROAD WORK				
	16.1S	ROADS				
	16.3	Supplying and stacking at site.				
22	16.3.10	Moorum	cum	80	888.3	71064
	16.29	Surface dressing one coat on old surface with bitumen of specified grade at the rate of 1.22 kg/ sqm of surface area with 1.10 cum of stone chippings 11.2 mm nominal size per 100 sqm of road surface, including consolidation with road roller of 6 to 8 tonne capacity etc. complete :				
23	16.29.1	Using bitumen emulsion (minimum 50% bitumen content- RS grade conforming to IS : 8887)	Sqm	150	107.45	16117.5
	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 :				
24	16.30.1	On W.B.M. @ 0.75 Kg / sqm	Sqm	150	45.2	6780

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	16.31	Providing and applying tack coat using bitumen emulsion conforming to IS:8887, using emulsion pressure distributor including preparing the surface & cleaning with mechanical broom.				
	16.33	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).				
25	16.33.1	With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt	Sqm	300	227	68100
	16.37	Providing and laying bitumen mastic wearing course (as per specifications) with industrial bitumen of grade 85/25 conforming to IS : 702, prepared by using mastic cooker and laid to required level and slope, including providing antiskid surface with bitumen precoated fine grained hard stone chipping of approved size at the rate of 0.005 cum per 10 sqm and at approximate spacing of 10 cm centre to centre in both directions, pressed into surface protruding 1 mm to 4 mm over mastic surface, including cleaning the surface, removal of debris etc. all complete. (Considering bitumen using 10.2% as per MORTH specification).				
26	16.37.2	40 mm thick	Sqm	1500	1163.1	1744650
	25.0	STRUCTURAL GLAZING ALUMINIUM COMPOSITE PANEL				
27	25.8	Design supply & installation of suspended Spider Glazing system designed to withstand the wind pressure as per IS 875 (Part-III). The Suspended System held with Spider Fittings of SS-316 Grade Steel of approved manufacturer with glass panel having 12 mm thick clear toughened glass held together with SS- 316 Grade Stainless steel Spider & bolt assembly with laminated glass fins 21 mm thick. The Glass fins and glass panel assembly shall be connected to Slab/beams by means of SS- 316 Grade stainless steel brackets & Anchor bolts and at the bottom using SS channel of 50x25x2mm using fastener & anchor bolts, non staining weather sealants of approved make, Teflon/ nylon bushes and separators to prevent bi-metallic contacts, all complete to perform as per specification and approved drawings. The complete system to be designed to accommodate thermal expansion & seismic movements etc. The joints between glass panels (6 to 8 mm) and gaps at the perimeter & in U channel of the assembly to be filled with non staining weather sealant, so as to make the entire system fully water proof & dust proof. The rate shall include all design, Engineering and shop drawing including approval from structural designer, labour, T&P, scaffolding, other incidental charges including wastage, enabling temporary services all fitting fixers nut bolts, washer, Buffer plates, fastener, anchors, SS channel laminated glass etc. all complete. For the purpose of payment, actual elevation area of Glazing including thickness of joints and the portion of Glass panel inside the SS channel shall be measured.	Sqm	300	8230.05	2469015
					Total	18113397.20
Item- 20	FACADE IMPROVEMENT AND ELEVATION AT JOC,MDKD & BURN					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	2.0	EARTH WORK				

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	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
1	2.8.1	All kinds of soil.	cum	2	286.85	573.7
2	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	5	2161.2	10806
	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 :				
3	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	12	7365.15	88381.8
	5.0	REINFORCED CEMENT CONCRETE				
	5.12S	PRE-CAST RCC				
4	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	18	9673.5	174123
	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:				
5	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	8	6658.25	53266
	6.12S	HALF BRICK MASONRY				
	6.12	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :				
6	6.12.2	cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm	30	837.85	25135.5
	6.26S	EXPOSED BRICK WALL				
	6.34	Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in :				
7	6.34.2	Cement mortar 1:6 (1 cement : 6 Coarse sand)	cum	50	7676.3	383815
	8.0	CLADDING WORK				
	8.20S	STONE WORK DRY CLADDING				

**ADRA DIVISION-ENGG/SOUTH EASTERN RLY
TENDER DOCUMENT**

Tender No: E-DRM-Engg-ADRA-19-23

Closing Date/Time: 21/04/2023 15:00

8	8.32	<p>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.</p>	Sqm	1400	4474.2	6263880
	9.0	WOOD AND P.V.C. WORK				
	9.40S	MISCELLANEOUS-WOOD WORK				
	9.48	<p>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.</p>				
9	9.48.2	<p>Fixed to openings /wooden frames with rawl plugs screws etc.</p>	Kg	200	197.7	39540
	9.105S	GYPSUM BOARD PARTITIONS				

**ADRA DIVISION-ENGG/SOUTH EASTERN RLY
TENDER DOCUMENT**

Tender No: E-DRM-Engg-ADRA-19-23

Closing Date/Time: 21/04/2023 15:00

	9.147A	Providing and fixing factory made uPVC white colour casement/casement cum fixed glazed windows comprising of uPVC multi-chambered frame, sash and mullion (where ever required) 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), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, stainless steel (SS 304 grade) friction hinges, zinc alloy (white powder coated) casement handles, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded 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 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.				
10	9.147A.1	Casement window single panel with S.S. friction hinges (300 x 19 x 1.9 mm), made of (small series) frame 47 x 50 mm & sash 47 x 68 mm both having wall thickness of 1.9 +/- 0.2 mm and single glass pane glazing bead of appropriate dimension. (Area of window upto 0.75 sqm.)	Sqm	50	10443.75	522187.5
	10.0	STEEL WORK				
11	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	500	111.95	55975
	10.25	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
12	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	Kg	120	142.3	17076
13	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	1000	612.25	612250
	12.0	ROOFING				
	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.				

**ADRA DIVISION-ENGG/SOUTH EASTERN RLY
TENDER DOCUMENT**

Tender No: E-DRM-Engg-ADRA-19-23

Closing Date/Time: 21/04/2023 15:00

14	12.50	Providing and fixing precoated 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	100	671.55	67155
	12.51	Providing and fixing precoated 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 :				
15	12.51.1	Ridges plain (500 - 600mm)	Metre	25	450.6	11265
	13.0	FINISHING				
	13.1S	CEMENT PLASTER (IN FINE SAND)				
	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
16	13.2.2	1:6 (1 cement: 6 fine sand)	Sqm	1700	324.3	551310
	13.16S	6MM CEMENT PLASTER				
17	13.18	Neat cement punning.	Sqm	120	67.8	8136
	13.85	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.				
	13.98	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade:				
18	13.98.1	One or more coats on old work	Sqm	500	90.85	45425
	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.				
19	15.2.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	cum	80	2007.1	160568
20	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	3	2928.1	8784.3
	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.				
21	15.7.4	In cement mortar	cum	153	1698.45	259862.85
	15.28	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of:				
22	15.28.1	G.S. Sheet	Sqm	20	136	2720
	25.0	STRUCTURAL GLAZING ALUMINIUM COMPOSITE PANEL				

**ADRA DIVISION-ENGG/SOUTH EASTERN RLY
TENDER DOCUMENT**

Tender No: E-DRM-Engg-ADRA-19-23

Closing Date/Time: 21/04/2023 15:00

23	25.8	Design supply & installation of suspended Spider Glazing system designed to withstand the wind pressure as per IS 875 (Part-III). The Suspended System held with Spider Fittings of SS-316 Grade Steel of approved manufacturer with glass panel having 12 mm thick clear toughened glass held together with SS- 316 Grade Stainless steel Spider & bolt assembly with laminated glass fins 21 mm thick. The Glass fins and glass panel assembly shall be connected to Slab/beams by means of SS- 316 Grade stainless steel brackets & Anchor bolts and at the bottom using SS channel of 50x25x2mm using fastener & anchor bolts, non staining weather sealants of approved make, Teflon/ nylon bushes and separators to prevent bi-metallic contacts, all complete to perform as per specification and approved drawings. The complete system to be designed to accommodate thermal expansion & seismic movements etc. The joints between glass panels (6 to 8 mm) and gaps at the perimeter & in U channel of the assembly to be filled with non staining weather sealant, so as to make the entire system fully water proof & dust proof. The rate shall include all design, Engineering and shop drawing including approval from structural designer, labour, T&P, scaffolding, other incidental charges including wastage, enabling temporary services all fitting fixers nut bolts, washer, Buffer plates, fastener, anchors, SS channel laminated glass etc. all complete. For the purpose of payment, actual elevation area of Glazing including thickness of joints and the portion of Glass panel inside the SS channel shall be measured.	Sqm	300	8230.05	2469015
	Total					11831250.65
Item- 21	PF SHED AT JOC, MDKD AND BURNPUR					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	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	218.16	205.45	44820.97
2	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	60	2161.2	129672
	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 :				
3	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	120	7365.15	883818
4	4.1.5	1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	3.63	6833.4	24805.24
	5.0	REINFORCED CEMENT CONCRETE				
	5.1S	CAST IN SITU				
	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 :				

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5	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	6	10185.05	61110.3
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
6	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	264.94	307.95	81588.27
	10.0	STEEL WORK				
7	10.1	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	43563.66	93.05	4053598.56
8	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	2936.64	111.95	328756.85
9	10.19	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.	Kg	2166	88.5	191691
	11.0	FLOORING				
	11.26S	KOTA STONE FLOORING				
	11.26	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :				
10	11.26.1	25 mm thick	Sqm	576	1706.6	983001.6
	12.0	ROOFING				
	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.				
11	12.41.2	110 mm diameter	Metre	84	319.75	26859
	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				
12	12.42.5.2	110 mm bend	Each	24	132	3168
13	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	1560	671.55	1047618

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	12.51	Providing and fixing precoated 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 :				
14	12.51.1	Ridges plain (500 - 600mm)	Metre	96	450.6	43257.6
	13.0	FINISHING				
	13.63	Painting with aluminium paint of approved brand and manufacture to give an even shade .				
15	13.63.1	Two or more coats on new work	Sqm	3120	121.45	378924
	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.				
16	15.2.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	cum	6	2007.1	12042.6
17	15.25	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	Sqm	60	219.75	13185
					Total	8307916.99
Item- 22	Facility for DIVYANGJAN UNDER ABSS at PRR,ANR,CNI & BBM					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	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	4.1.4	1:2:4 (1 Cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 40 mm nominal size derived from natural sources)	cum	80	7226.95	578156
	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 :				
2	5.1.3	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	55	7945.65	437010.75
	10.0	STEEL WORK				
3	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	12300	612.25	7530675
	12.0	ROOFING				
	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.				

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	12.42.5	Bend 87.5 degrees				
4	12.42.5.2	110 mm bend	Each	60	132	7920
	12.43	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.				
5	12.43.2	110 mm	Each	480	309.5	148560
6	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	3600	671.55	2417580
	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 :				
7	12.51.1	Ridges plain (500 - 600mm)	Metre	360	450.6	162216
	16.0	ROAD WORK				
	16.49S	MISCELLANEOUS				
8	16.73	Dry stone pitching 22.5 cm thick laid in courses and required profile with hammer dressed stones having no side less than 15 cm, with minimum depth of 20 cm including preparing the bedding surface etc. all complete. (Payment for Stone to be made separately).	Sqm	2171.4	542.85	1178744.49
	17.0	SANITARY INSTALLATIONS				
	17.4	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :				
9	17.4.1	One urinal basin with 5 litre white P.V.C. automatic flushing cistern	Each	24	5268.85	126452.4
	17.6	Providing and fixing one piece construction white vitreous china squatting plate with an integral longitudinal flushing pipe, white P.V.C. automatic flushing cistern, with fittings, standard size G.I. / PVC flush pipe for back and front flush with standard spreader pipes with fittings, G.I clamps and C.P. brass coupling complete, including painting of fittings and cutting and making good the walls and floors etc. wherever required :				
10	17.6.1	Single squatting plate with 5 litre P.V.C. automatic flushing cistern	Each	24	7752.6	186062.4

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	17.7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:				
11	17.7.10	Stainless Steel AISI-304(18/8) Round basin 405x355 mm with single 15 mm C.P. brass pillar tap	Each	12	2950.65	35407.8
	17.13	Providing and fixing white vitreous china water closet squatting pan (Indian type) :				
12	17.13.2	Orissa pattern W.C. pan of size 580x440 mm	Each	24	2758.2	66196.8
13	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	12	6119.15	73429.8
14	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	24	1411.15	33867.6
15	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	12	942.15	11305.8
	17.35	Providing and fixing soil, waste and vent pipes :				
	17.35.1	100 mm dia				
16	17.35.1.1	Sand cast iron S&S pipe as per IS: 1729	Metre	320	1018.05	325776
17	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	12	146.3	1755.6
18	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	12	204.7	2456.4
	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.				
19	17.73.1	450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms	Each	12	573.6	6883.2
	18.0	WATER SUPPLY				
	18.4S	PP-R PIPES				
	18.6	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801 UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. - External work				
20	18.6.5	PN - 10 Pipe, 50 mm OD (SDR-11)	Metre	120	568.6	68232
	18.7S	C.P.V.C. PIPES				

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	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge, Concealed work, including cutting chases and making good the wall etc.				
21	18.8.1	15 mm nominal dia Pipes	Metre	240	441.15	105876
22	18.8.2	20 mm nominal dia Pipes	Metre	240	513.75	123300
	18.21	Providing and fixing uplasticised PVC connection pipe with brass unions :				
	18.22	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :				
23	18.22.2	150 mm diameter	Each	12	190.1	2281.2
	18.31S	C.I. SLUICE VALVES/ FIRE HYDRANTS & FIXTURES				
	18.33	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) , i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :				
24	18.33.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	Each	24	10102.5	242460
	18.49S	C.P. BRASS FITTINGS				
	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				
25	18.49.1	15 mm nominal bore	Each	24	434.2	10420.8
	18.54S	PTMT FITTINGS				
	18.54	Providing and fixing PTMT bib cock of approved quality and colour.				
26	18.54.1	15mm nominal bore, 86 mm long, weighing not less than 88 gms	Each	12	109.85	1318.2
	21.0	ALUMINIUM WORK				
	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				
27	21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	1200	433.95	520740

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	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)				
28	21.1.2.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	2400	531.8	1276320
					Total	15681404.24
Item- 23	PROVISION OF PF SHED AT ANARA					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	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	145.45	205.45	29882.7
2	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	40	2161.2	86448
	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 :				
3	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	80	7365.15	589212
4	4.1.5	1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	2.42	6833.4	16536.83
	5.0	REINFORCED CEMENT CONCRETE				
	5.1S	CAST IN SITU				
	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 :				
5	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	4	10185.05	40740.2
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
6	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	175.95	307.95	54183.8
	10.0	STEEL WORK				
7	10.1	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	29042.42	93.05	2702397.18
8	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	1957.58	111.95	219151.08
9	10.19	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.	Kg	1444	88.5	127794

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	11.0	FLOORING				
	11.26S	KOTA STONE FLOORING				
	11.26	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :				
10	11.26.1	25 mm thick	Sqm	384	1706.6	655334.4
	12.0	ROOFING				
	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.				
11	12.41.2	110 mm diameter	Metre	56	319.75	17906
	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				
12	12.42.5.2	110 mm bend	Each	16	132	2112
13	12.50	Providing and fixing precoated 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	1040	671.55	698412
	12.51	Providing and fixing precoated 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 :				
14	12.51.1	Ridges plain (500 - 600mm)	Metre	64	450.6	28838.4
	13.0	FINISHING				
	13.63	Painting with aluminium paint of approved brand and manufacture to give an even shade .				
15	13.63.1	Two or more coats on new work	Sqm	2080	121.45	252616
	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.				
16	15.2.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	cum	4	2007.1	8028.4

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17	15.25	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	Sqm	40	219.75	8790
					Total	5538382.99
Item- 24	Widening and Raising of platform at Madhukunda and RDSO Type PF shed					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	1.0	CARRIAGE OF MATERIALS				
	1.1	By Mechanical Transport including loading,unloading and stacking				
	1.1.2	Earth				
1	1.1.2.5	5km	cum	50	271.45	13572.5
	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.				
2	2.6.1	All kinds of soil	cum	1450	205.45	297902.5
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	1800	368.65	663570
4	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	60	2161.2	129672
	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 :				
5	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	202.65	7365.15	1492547.65
6	4.1.5	1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	105	6833.4	717507
	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.				
7	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	20	8130.65	162613
	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 :				
8	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	35	8364.2	292747
	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 :				

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9	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	41	10185.05	417587.05
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
10	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	293.99	307.95	90534.22
11	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	130	766.55	99651.5
12	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	400	804.25	321700
	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:				
13	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	105	6658.25	699116.25
	6.3	Brick work with common burnt clay machine moulded perforated bricks of class designation 12.5 conforming to IS: 2222 in superstructure above plinth level up to floor five level in cement mortar 1:6 (1 cement : 6 coarse sand) :				
14	6.3.1	With F.P.S.(non modular) bricks	cum	84	8030.6	674570.4
	8.0	CLADDING WORK				
	8.20S	STONE WORK DRY CLADDING				
15	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	20	1063.45	21269
	9.0	WOOD AND P.V.C. WORK				
	9.105S	GYPSUM BOARD PARTITIONS				
16	9.119	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer- in-Charge.	Metre	20	408.25	8165

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	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.				
17	9.120.2	30 mm thick pre laminated PVC door shutters	Sqm	10	2455.1	24551
	10.0	STEEL WORK				
18	10.1	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	7260.61	93.05	675599.76
19	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	489.39	111.95	54787.21
20	10.19	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.	Kg	361	88.5	31948.5
21	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	300	612.25	183675
	11.0	FLOORING				
	11.26S	KOTA STONE FLOORING				
	11.26	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :				
22	11.26.1	25 mm thick	Sqm	96	1706.6	163833.6
	11.41S	VITRIFIED FLOOR TILES				

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	11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm 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., complete.				
23	11.41.2	Size of Tile 600x600 mm	Sqm	50	1416.65	70832.5
	11.55	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge :				
24	11.55.1	Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	Sqm	325	2589.9	841717.5
	12.0	ROOFING				
	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.				
25	12.41.2	110 mm diameter	Metre	14	319.75	4476.5
	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				
26	12.42.5.2	110 mm bend	Each	4	132	528
27	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	260	671.55	174603
	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 :				
28	12.51.1	Ridges plain (500 - 600mm)	Metre	16	450.6	7209.6

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	13.0	FINISHING				
	13.1S	CEMENT PLASTER (IN FINE SAND)				
	13.1	12 mm cement plaster of mix :				
29	13.1.2	1:6 (1 cement: 6 fine sand)	Sqm	800	282	225600
	13.44S	EXTERIOR FINISHING				
	13.47	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:				
30	13.47.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	Sqm	1100	162.35	178585
	13.63	Painting with aluminium paint of approved brand and manufacture to give an even shade .				
31	13.63.1	Two or more coats on new work	Sqm	600	121.45	72870
	14.0	REPAIRS TO BUILDING				
	14.75AS	ROUTINE MAINTENANCE WORK				
	14.80	Providing & fixing White vitreous china water closet squatting pan (Indian type) along with "S" or "P" trap including dismantling of old WC seat and "S" or "P" trap at site complete with all operations including all necessary materials, labour and disposal of dismantled material i/c malba, all complete as per the direction of Engineer-in charge.				
32	14.80.2	Orissa pattern W.C Pan of size 580x440 mm	Each	2	3850.65	7701.3
	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.				
33	15.2.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	cum	11	2007.1	22078.1
34	15.2.2	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	cum	10	1239.6	12396
35	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	5	2928.1	14640.5
	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.				
36	15.7.4	In cement mortar	cum	20	1698.45	33969
37	15.18	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 metres lead.	Kg	20000	4.65	93000
38	15.25	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	Sqm	10	219.75	2197.5
39	15.59	Dismantling of flexible pavement (bituminous courses) by mechanical means and disposal of dismantled material up to a lead of 1 kilometre, as per direction of Engineer-in-charge.	cum	15	347.9	5218.5
	16.0	ROAD WORK				
	16.1S	ROADS				
	16.3	Supplying and stacking at site.				
40	16.3.1	90 mm to 45 mm size stone aggregate	cum	25	1937.6	48440
41	16.3.2	63 mm to 45 mm size stone aggregate	cum	18.75	1624.5	30459.38
42	16.3.3	53 mm to 22.4 mm size stone aggregate	cum	18.75	1837.25	34448.44
43	16.3.10	Moorum	cum	10	888.3	8883

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44	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	62.5	865.8	54112.5
	17.0	SANITARY INSTALLATIONS				
45	17.7B	Providing and fixing wash basin with C.I. brackets, 15 mm PTMT pillar cock, 32 mm PTMT waste coupling of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required. White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm PTMT pillar cock.	Each	2	1404	2808
					Total	9183894.46
Schedule	Schedule B-Execution of Special Item of works					
Item- 1	Spl item for Improvement to traffic circulation area & Beautification of circulating area at PRR,ANR,CNI & BBM					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Turfing / planting, including all lead & lift and watering as required until properly rooted with. Note: Initially payment of only 40% will be made. Balance 60% will be paid after 3 months of maintenance period, only if the turfing is properly rooted on entire turfed area. Turfing with sods, 10cm thick and 20cm square closely laid.	100 Sqm	3000.00	5460.99	163829.70
2	2	Providing and laying 75 mm thick compacted bed of dry brick aggregate of 40 mm thick nominal size including spreading, well ramming, consolidating and grouting with jamuna sand, including finishing smooth etc. complete as per direction of Engineering in charge.	Sqm	150.00	182.41	27361.50
3	3	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	75.00	8646.70	648502.50
4	4	Providing and laying C.C. pavement of mix M-25 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator , vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-incharge. (The panel shuttering work shall be paid for separately). (Note:Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/ recoverable separately).	cum	75.00	8942.87	670715.25
					Total	1510408.95
Item- 2	Special item for Entrance porches at PRR,ANR,CNI& BBM					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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1	1	"Design, Supply, fabrication, delivery and erection of Tensile fabric roofing, including steel support frame work of make TATA / JINDAL or similar wire, ropes, cables chemical fasteners, shackles, rigging screws, clamps, tensioning hardware and final finishing with enamel paint etc complete including cost of materials, labours (Foundation work to be paid separately) Membrane specifications as under : Both side PVDF coat Technical properties (5% variation acceptable) Yarn : PES HT 1100 dtex Weight : 950g/Sqm-28 oz sqyd. Total Thickness : 0.72 mm Width : 267 cm, 105.1 inch. Tensile Strength : 420 / 400 daN / SCM (WRAP *WEFT) Adhesion : 12 daN / SCM Surface Treatment : Formula weldable fluorinated varnish, Light Transmission : 13.50% Flame Ret ardency : MZ P92-507CSFMT 119 ,B1 /DIN4102 Manufacturer's arantee :7 Years (Rate ref.-Khurda Road Division Engineering /etenderestatur-120-2020 /00881870026578 Dated: 05/10/2020) "	Sqm	2000.00	7600.00	15200000.00
2	2	"Supply and fixing of KALZIP/KINGZIP or equivalent Straight / curved self supported secret fix standing ROOFING SYSTEM in 0.9mm Thick 3004 ALUMINIUM ALLOY. The general roofconstruction shall comprise from bottom to top: (1). Top layer 65/400 profile sheeting manufactured from aluminium selfsupported standing seam roof system from aluminium alloy AA 3004 H46 (AMn1Mg1) as specified in BS EN 1396: 2007 minimum material thickness Of (0.9 mm and PVDF2 finish on the exposed surface- Accessories, Fasteners. The material properties shall be as follows: Ultimate tensile strength: minimum 200 NJmm2, 0.2% Proof Stress: min 185 N/mm2. Modulus of elasticity: 70,000 N/mm2. The panels shall be finished with PVDF. The fluorocarbon coating (2-coat system) shall consist Of:- First coat -Inhibitive primer; With a dry film thickness averaging 5-7 m Second coat -Fluorocarbon colour coat, with a minimum dry film thickness Of 20 microns. The inner side of the panels shall be finished with primer coating of 5-7 microns, The roofing system provider shall be certified with a British Board of Agreement and should have both Factory Mutual (FM4471) & UL Certification (UL-90). "	Sqm	1700.00	4924.41	8371497.00
3	3	Providing, supplying, erecting and fixing in position 3mm thick polycarbonate sheets of approved texture and color. Cost to include jointing, sealing with Butul adhesives and takes as per manufacturer's specifications and cover all costs of labour, tools. plants, temporary works all complete.	Sqm	1700.00	2534.83	4309211.00
					Total	27880708.00
Item- 3	Special item for Facade and elevation at PRR,ANR,CNI & BBM					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Mridul work	Sqm	300.00	8631.00	2589300.00
2	2	"model landscaping of fountain (14' dia) flora water castle fountain water pattern-A group of geysers (consisting of 16 nos of geysers) throwing milk lead water into air producing an effect like castle. Pool size required 14 feet dia water effect 10 feet height (centre) 4 feet (out circle) max (approx) pump set 2x7.5 HP three phase submersible mono blockl uminatijon singled fixed colour (Brilliant white preferred) 17 nos of water proof light cable/pzanel board cable for pump set and light up to 10 mtr distance and suitable panel board shall be supplied.[Rate as per Sch F/1 of LOA No & Date :-D /K /T / Dev. Stn. Bldg/Improv. Circul Area/ Esclator/ KUR Stn / PRNanda / 394 dtd. 16.04.2018]"	Each	4.00	183000.00	732000.00

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3	3	Supplying, fitting & fixing of Sand Stone Statues of decorative ornamental carved structure (Debdasi with pot) of 6'-0" height. The rate includes cost of loading, transporting, unloading, placing at the required locations as directed by the Engineer in charge. The rate also includes all lead, lift, tools & plants, machineries, all taxes including GST applicable (Rate as per Agt. No.154 Q dtd. 22.02.2018, item no A/1)	Each	5.00	60000.00	300000.00
4	4	Supply installation and fixing of sand stone carved "Konark Chakra"/local cultural statue including all finishing with bondtite, touch wood polish, fixing over base etc. Complete in all respect including all materials, labour charges, transportation, scaffolding, crane for lifting & fixing etc. Size- 6 ft dia and (similar) based of jharkhand culture.	Each	4.00	413000.00	1652000.00
5	5	"Design, Supply, fabrication, delivery and erection of Tensile fabric roofing, including steel support frame work of make TATA / JINDAL or similar wire, ropes, cables chemical fasteners, shackles, rigging screws, clamps, tensioning hardware and final finishing with enamel paint etc complete including cost of materials, labours (Foundation work to be paid separately) Membrane specifications as under : Both side PVDF coat Technical properties (5% variation acceptable) Yarn : PES HT 1100 dtex Weight : 950g/Sqm-28 oz sqyd. Total Thickness : 0.72 mm Width : 267 cm, 105.1 inch. Tensile Strength : 420 / 400 daN / SCM (WRAP *WEFT) Adhesion : 12 daN / SCM Surface Treatment : Formula weldable fluorinated varnish, Light Transmission : 13.50% Flame Ret ardency : MZ P92-507CSFMT 119 ,B1 /DIN4102 Manufacturer's arantee :7 Years (Rate ref.-Khurda Road Division Engineering /etenderestatekur-120-2020 /00881870026578 Dated: 05/10/2020) "	Sqm	900.00	7600.00	6840000.00
6	6	Providing & fixing Toilet Cubicle (of following standard dimension which includes 600mm door size width) made of heat, bacteria, water, chemical, scratch, impact and anti bacterial resistant 12mm thick solid compact laminate panels tested in approved laboratory. Finish of the compact laminate should be Suede, Raw silk model includes doors, pilasters & intermediate panels finished with approved texture/shade as per the detail drawings & as per IS 2046 (Indian Standard) and as per fire retardant BS-476/97 standard. This also includes providing and fixing in position necessary hardware made out of Stainless steel (Grade 304) as per manufacturers specifications & Architects instructions like (1) Door Knob, (2) Gravity Hinges, (3) Thumb turn lockset with Occupancy indicators. (4) Coat hooks with Door stopper (5) U- Channels, (6) Adjustable foot/pedestal, (7) Top rail (8) Rubber noise deafening tape, (9) Screws & wall Plugs, All. screws will of 304 Grade in stainless steel with satin finish. Al pilasters are supported by stainless steel Bottom Cladding. The base of the stainless steel bottom cladding will be anchored to the floor with a clearance height upto 150mm. The top fitting should consists of SS top rail which will get fixed with plasters. SS wall fixing is used only on the wall which will hold the SS to rail. Toilet Cubicle with standard dimension of 2000-2100mm Height x 1000mm Width x 1550mm Depth, which includes 600mm door size width.	Numbers	4.00	36506.00	146024.00
7	7	Toilet Cubicle I-Shape (Front Partition) with standard dimension Of 2000-2100mm Height x 1000mm Width which includes 600mm door size width.	Numbers	4.00	33829.00	135316.00

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8	8	Providing and fixing Urinal partition made of 12 mm thick compact laminate total height 1195 mm, Depth 450-500mm, Gap from ground 500 to 600 mm (as per drawing) and fixing Toilet UMP (urinal modesty panel) made up of thermosetting resin treated high pressure, self supporting decorative compact laminates with permanently incorporate anti-bacterial agents (under JIS Z2801 :2000 certification) during manufacturing. Compact board should be resistance to water immersion through permissible increase on thickness and mass and board density >1.35kg/cm ³ and fulfilled the criteria of green guard gold certification and manufactured under EN43B2&3:2005 standard. 12mm thick compact board should be Moisture resistant. Impact resistant, termite resistant, Scratch resistant *Weather and climatic shock resistant, Finish of compact laminates should be suede finish which includes door. pilasters and intermediate panels finished with approved texture/shades as per IS2046 and fulfilled the criteria of fire retardant under BS-476/97 and EN438-6 with classification of BSI DO standard, Screw & wall plugs should be approved under the instruction of Engineer-incharge, All screw will of 304 grade in SS with stain finish. All pilasters are supported by SS bottom cladding. Stainless steel L clamp is used to attach the divider to the wall. stainless steel L clamp hardware fittings along with SS 304 screws are used to fix the Urinal partitions on the wall	Numbers	6.00	5001.00	30006.00
9	9	Providing and laying sand blasted finish granite stones in desired colour as per control sample of sizes upto including 1200x600x30mm as per pattern on floor using 5mm thick approved thick bed adhesive as per specification over prepared base on 20mm (average) thick base of cement mortar (1 cement 4 coarse sand) laid and jointed with neat cement slurry mixed With pigment to match the shade of granite stone complete as per specifications and architectural drawings. in external development areas. With Jet Black, Icone Brown, Lakha red or Red Silk, Blue Pearl granite	Sqm	100.00	4707.21	470721.00
10	10	Providing and fixing of Unistone/ Hindustan tiles or equivalent glass reinforced concrete (G.R.C) flooring paving tiles in sizes of 152mm x 152mm /305mm x 305mm. The thickness of the tiles should range between 22 to 25mm, allowing variance of ± 5mm in accordance with IS: 1237-1980. The tiles should be made with M-40 Grade concrete mix design having '43' grade White Portland cement, reinforced with Alkali Resistant glass fiber and the pigmentation should be done with exterior grade synthetic inorganic iron oxide pigments manufactured by 'BAYFERROX (Germany)' or equivalent with high vibration technology. The pigmentation should be homogeneous and in accordance with British standard BS EN 12878:1999. The other additives should be fine washed graded quartz super plasticizers and integrated water proffers agents and others. The top surface of the tiles should be sealed with acrylic lacquer resulting in surface water absorption of tiles less than 1%, and water absorption by 24 hours immersion rmethod less than 8% and shall be laid over 20mm thick cement mortar bed 1:3 (1 cement 3 coarse sand) as specified in the manufacturer's instructions.	Sqm	600.00	1267.41	760445.40
11	11	Providing and laying 75 mm thick compacted bed of dry brick aggregate of 40 mm thick nominal size including spreading, well ramming, consolidating and grouting with jamuna sand, including finishing smooth etc. complete as per direction of Engineerin charge.	Sqm	100.00	182.41	18241.00

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12	12	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	30.00	8646.70	259401.00
13	13	Providing and laying C.C. pavement of mix M-25 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator , vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-incharge. (The panel shuttering work shall be paid for separately). (Note:Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/ recoverable separately).	cum	30.00	8942.87	268286.10
14	14	"Supply and fixing of KALZIP/KINGZIP or equivalent Straight / curved self supported secret fix standing ROOFING SYSTEM in 0.9mm Thick 3004 ALUMINIUM ALLOY. The general roofconstruction shall comprise from bottom to top: (1). Top layer 65/400 profile sheeting manufactured from aluminium selfsupported standing seam roof system from aluminium alloy AA 3004 H46 (AMn1Mg1) as specified in BS EN 1396: 2007 minimum material thickness Of (0.9 mm and PVDF2 finish on the exposed surface- Accessories, Fasteners. The material properties shall be as follows: Ultimate tensile strength: minimum 200 NJmm2, 0.2% Proof Stress: min 185 N/mm2. Modulus of elasticity: 70,000 N/mm2. The panels shall be finished with PVDF. The fluorocarbon coating (2-coat system) shall consist Of:- First coat -Inhibitive primer; With a dry film thickness averaging 5-7 m Second coat -Fluorocarbon colour coat, with a minimum dry film thickness Of 20 microns. The inner side of the panels shall be finished with primer coating of 5-7 microns, The roofing system provider shall be certified with a British Board of Agreement and should have both Factory Mutual (FM4471) & UL Certification (UL-90). "	Sqm	500.00	4924.41	2462205.00
15	15	Providing, supplying, erecting and fixing in position 3mm thick polycarbonate sheets of approved texture and color. Cost to include jointing, sealing with Butul adhesives and takes as per manufacturer's specifications and cover all costs of labour, tools. plants, temporary works all complete.	Sqm	500.00	2534.83	1267415.00
16	16	External texture paint	Sqm	200.00	425.68	85136.00
17	17	VE Panel	Sqm	300.00	1367.00	410100.00
					Total	18426596.50
Item- 4	Special item for Improvement of PF Surfacing at PRR,ANR,CNI & BBM					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**ADRA DIVISION-ENGG/SOUTH EASTERN RLY
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1	1	Providing and fixing flamed finish Sadarahalli grey or equivalent granite stone (bull-nosed) of size 1200x600x60 mm at platform edge level using 5mm thick approved thick bed adhesive as per specification over prepared base on 20mm (average) thick base of cement mortar in 1:4 (1 cement 4 total aggregate- sand and 10mm single sized aggregate) using 43 grade cement, water reducing admixture as per ISO 9103: 1999 and jointing with white cement with matching colour pigment all complete in leveling course laid to proper slopes over screed base including, base preparation including movement joint in screed as per specification with 10mm thick compressible filler to edge of screed with two parts polysulphide sealant to top edge as per approved drawing and directions of engineer-in-charge. Provision for cutting around PSG pedestals and incorporating inserts shall be included.	Sqm	2000.00	4562.69	9125380.00
2	2	Extra for Jet Black, Icone Brown, Lakha red or Red Silk, Blue pearl ranite	Sqm	800.00	1520.89	1216712.00
3	3	Providing and laying 30mm thick pre-polished granite slab of sizes upto and including : 1200X600 mm on floor using 5 mm thick approved thick bed adhesive as per specification over prepared base on 20mm (average) thick base of cement mortar 1:4 (1 Cement : 4 total aggregates - coarse sand and 10mm single sized aggregates) using 43 grade cement, water reducing admixture as per ISO 9103: 1999 and jointing with white cement with matching colour pigment all complete (Colour of granite as approved by Engineer) in leveling course laid to proper slopes over concrete base including base preparation, movement joint in screed as per specification with 10 mm thick compressible filler to edge of screed/ blockwork junction with two paris polysulphide sealant to top edge, drainage gullies as per approved section, curing, testing etc. all complete as per specifications and relevant drawings.	Sqm	2550.00	3548.76	9049338.00
4	4	Extra for Jet Black, Icone Brown, Lakha red or Red Silk, Blue pearl ranite	Sqm	1225.00	1013.93	1242064.25
5	5	Extra for Flamed Finish	Sqm	650.00	150.37	97740.50
6	6	Providing and laying 30mm thick prepolished with 25%-35% quantity flamed as per pattern Granite Stone flooring in treads and landings (including bull nosing, rounding the nose and making groove) of steps of approved colour, size and pattern. (sample of granite stone shall be approved by Engineer-incharge) over 20mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with neat cement slurry mixed with pigment to match the shade of granite stone complete as per specifications and architectural drawings.	Sqm	555.00	3548.77	1969567.35
7	7	Extra for Jet Black, Icone Brown, Lakha red or Red Silk, Blue pearl ranite	Sqm	192.00	506.97	97338.24
8	8	Providing and laying 18mm thick mirror polished Granite Stone in Risers of steps of approved colour, size and pattern, (sample of granite stone shall be approved by Engineer-in-charge) over 12 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand) and jointed with neat cement slurry mixed with pigment to match the shade of granite stone complete as per specifications and relevant drawings.	Sqm	192.00	2281.35	438019.20
9	9	Extra for Jet Black, Icone Brown, Lakha red or Red Silk, Blue Pearl ranite	Sqm	192.00	506.97	97338.24

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10	10	Providing and laying 30mm thick mirror polished granite stone work of upto and including sizes of 1200mm X 600mm of approved colour/ pattern with 4mm groove all around at all levels for wall linings/ columns/ skirtings (vener work) by mechanical arrangement with SS cramps/ brackets. anchor bolts, 6 mm vertical SS pins of approved make and inserts as per drawings and specifications.(The cost of making necessary grooves all around stone pieces, chamfering of corner edges and polishing, SS cramps/ brackets, anchor bolts, 6 mm vertical SS pins etc., all are inclusive in rate.)	Sqm	250.00	4816.17	1204042.50
11	11	Extra for Jet Black, Icone Brown, Lakha red or Red Silk, Blue Pearl ranite	Sqm	196.00	506.97	99366.12
12	12	Providing & Fixing Polished Granite Coping of Jet Black or any other dark granite stone, bullnosed over 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) with joint treated with white cement mixed with matching pigment including Rubbing, Curing , Moulding & polishing to edge to give high gloss finish etc. complete. 30 mm thick	Sqm	115.00	3802.24	437257.60
13	13	Providing and Laying of Foam Concrete under Raised Floor as / of densit 1200k /cum	cum	11.00	4182.46	46007.06
					Total	25120171.06
Item- 5	Special item for Improvement to interior,Waiting halls etc at PRR,ANR,CNI & BBM					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	P&F Wall Panelling made out of 50 mm x 25 mm thick hard wood framing.....	Square Foot	1100.00	1750.00	1925000.00
2	2	Beautification of building by weather proof wall painting.....	Square Foot	3500.00	83.81	293335.00
3	3	Mridul tiles.....	Sqm	100.00	10331.14	1033114.00
4	4	Modular toilet	Each	4.00	57702.00	230808.00
5	5	Modular bench	Each	15.00	10000.00	150000.00
6	6	"Supplying and application of heritage surface texture in granite finishing including all lead lift taxes etc complete as per instruction of Engineer-in-charge at site. Rate taken from Agrt. No- Works/SSE/(W)/PRR/31//20/2 Dt-03.02.2012 + 737.88 + 4% =767.40 + 55%, Escalation @ 5% per year i.e. 1189.47 sqm"	Sqm	500.00	1189.47	594735.00
7	7	Providing & Fixing 300mm wide SS Grating of length as per architectural drawing with 3mm thick 304 Grade SS pressed plate with 6mm wide slits @ 15mm c/c with 35mm X 35mm X 5mm SS grade 304 tube section welded all around edges and at suitable interval for support. flushed with Floor finish including providing & fixing necessary MS angle frame etc. complete as per architectural drawing (for payment purposes only SS item shall be measured).	Kg	1700.00	570.34	969578.00
8	8	Providing & installing Fixed glazed wall assembly with specified fixing & finish using of 2 sheets 6mm thick toughened glass with nominal gap silicon sealant joint. Glass shall be clear, toughened and laminated with 1.52mm thick polyvinyl butyral layer, Glass held with SS patch fittings - all complete as per relevant architectural drawings and specification with cut out & holes. (ticket offices, Station Control Room, etc.)	Sqm	550.00	7604.49	4182469.50

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9	9	"Providing & Fixing of Glass Reinforced Concrete (G.R.C) Jali 40mm thick in approved size, pattern, design, thickness and color to be fixed on/between RCC/Block work Column or Structural Steel work with 'Dry fixing' method with Stainless Steel (SS - 304) 'L' shaped Clamps, dash fasteners and pins including anchoring, lifting, scaffolding etc. complete as per architectural drawing and manufacture specification. The Screens should be made from '53 grade' White Portland Cement manufactured by 'JK Cement' or equivalent, Quartz, Fine Silica Sand, Alkali Resistant Glass Fiber manufactured by 'Saint Gobain' or equivalent, Super Plasticizers manufactured by 'BASF' or equivalent, Polymers manufactured by 'BASF' or equivalent and U.V resistant Synthetic inorganic pigments should be used for pigmentation manufactured by 'BAYFERROX (Germany)' or equivalent. The material casting should take place in Synthetic Rubber / FRP Mould manufactured by 'Reckli' or equivalent. (All appropriate supporting structure steel work shall be paid extra as per DSR item no 10.25/10.26) "	Sqm	1100.00	3551.68	3906848.00
10	10	Providing and fixing acoustic insulation of ceiling at Platform and Concourse levels with resin bonded Fibre Glass Wool confirming to IS:8193. (Twigalnsul 1500/50 mm or equivalent) density 24 kg/cum., 50mm thick wrapped in black glass cloth and wire mesh, fixed in position on the soffit of slab by fasteners etc complete as per drawings and specification and the direction of Engineer-in-Charge.	Sqm	4000.00	367.55	1470200.00
11	11	Providing and fixing of 6mm thick premium GRIHA rated lacquered glass - AIS Decor from Asahi India Glass Ltd or equivalent of approved colour, fixed with compatible neutral grade silicon/Tape/studs on a perfectly levelled 12mm thick water proof marine plywood / MDF / Mineral fibre board which is mounted on RCC wall/any other structure. Lacquered glass must be made industrially (using curtain coating process); opaque (if viewed against a support wall), uniformly coated with PU lacquer (45 +/- 5 micron thick coating or more); panel to panel colour consistency (measured by photo spectrometer); highly durable (passes hardness test for minimum 220 oscillations); humidity resistance (conforms to BS EN 1036 1999 or equivalent) ; environmentally friendly having Low VOC (no lead, no arsenic, no copper, no formaldehyde), low VOC content <100g/l. Silicone used should not react with lacquer coating (compatible neutral cure silicon) & should be used as per Glass suppliers application guidelines.	Sqm	130.00	5666.10	736593.00
12	12	Providing and fixing 12mm thick counter tops for TOM/ SCR/ EFO/ Wash Rooms with Wash Basins troughs or column cladding of solid Acrylic material over 12mm external grade ply/cement board with all necessary framework, fasteners etc including making provisions tot fixing fittings etc complete.	Sqm	400.00	3551.68	1420672.00
13	13	Filling the gap in between aluminium frame & adjacent RCC/Brick/Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of En ineer-in-char e com lete. U to 5mm de th and 5 mm width	Metre	150.00	82.02	12303.00

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14	14	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & double action 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	60.00	4591.57	275494.20
					Total	17201149.70
Item- 6	Special item for VIP LOUNGE at PRR,ANR,CNI & BBM					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Providing and fixing 200x200mm baffle ceiling (200mm Width & 200mm Height) system comprising of closed box shaped profiles-Metal baffle shall be made out of 0.7-0.9 mm thick electro galvanized steel material in lengths of up to 2400mm. The Coil should be stove enameled on a continuous application for pre-treatment. The coils to go through 4 stages of pretreatment, three times oven baked through conversion coating, priming and finish coat ensuring superior adhesion, high corrosion resistance and good colour stability. The coils to be painted on both sides after degreasing. Inside surface to have a primer of 5 microns and a coat of natural colour of 5 microns, exposed surface to have a primer of 5 microns, binder Of 5 microns and topcoat of approved colour of 15 microns. Baffle Ceiling shall be mounted on slotted galvanized steel grid profile of minimum 2mm thickness in a module of 225mm. Baffle grid shall be suspended and supported by means of minimum 6mm dia threaded suspenders at a distance of 150mm from the edge and 1200mm maximum spacing. Baffle fixing brackets shall be used to keep the ceiling in correct place for the levelling purpose. Metal baffles shall be coil coated in desired colour. Baffle ceiling system shall be installed in compliances with manufactures technical installation brochure and manual. At accessories like end caps, column rings etc are included wherever re uired.	Sqm	2500.00	3802.25	9505625.00
2	2	Providing and fixing acoustic insulation of ceiling at Platform and Concourse levels with resin bonded Fibre Glass Wool confirming to IS:8193. (Twigalnsul 1500/50 mm or equivalent} density 24 kg/cum., 50mm thick wrapped in black glass cloth and wire mesh, fixed in position on the soffit of slab by fasteners etc complete as per drawings and specification and the direction of Engineer-in-Charge.	Sqm	500.00	367.55	183775.00
3	3	Filling the gap in between aluminium frame & adjacent RCC/Brick/Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of En ineer-in-char e com lete. U to 5mm de th and 5 mm width	Metre	100.00	82.02	8202.00
4	4	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & double action 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	20.00	4591.57	91831.40

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5	5	Providing and fixing of 6mm thick premium GRIHA rated lacquered glass - AIS Decor from Asahi India Glass Ltd or equivalent of approved colour, fixed with compatible neutral grade silicon/Tape/studs on a perfectly levelled 12mm thick water proof marine plywood / MDF / Mineral fibre board which is mounted on RCC wall/any other structure. Lacquered glass must be made industrially (using curtain coating process); opaque (if viewed against a support wall), uniformly coated with PU lacquer (45 +/- 5 micron thick coating or more); panel to panel colour consistency (measured by photo spectrometer); highly durable (passes hardness test for minimum 220 oscillations); humidity resistance (conforms to BS EN 1036 1999 or equivalent) ; environmentally friendly having Low VOC (no lead, no arsenic, no copper, no formaldehyde), low VOC content <100g/l. Silicone used should not react with lacquer coating (compatible neutral cure silicon) & should be used as per Glass suppliers application guidelines.	Sqm	50.00	5666.10	283305.00
6	6	Providing and fixing 12mm thick counter tops for TOM/ SCR/ EFO/ Wash Rooms with Wash Basins troughs or column cladding of solid Acrylic material over 12mm external grade ply/cement board with all necessary framework, fasteners etc including making provisions tot fixing fittings etc complete.	Sqm	100.00	8871.91	887191.00
					Total	10959929.40
Item- 7	Special item for Horticulture at PRR,ANR,CNI & BBM					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Cycus Revoluta of Leaves 35-40 in cement pots of size 45 cm	Each	550.00	1279.97	703983.50
					Total	703983.50
Item- 8	Spl item for ENTRANCE PORCHES AT JOC,MDKD AND BURN					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	"Design, Supply, fabrication, delivery and erection of Tensile fabric roofing, including steel support frame work of make TATA / JINDAL or similar wire, ropes, cables chemical fasteners, shackles, rigging screws, clamps, tensioning hardware and final finishing with enamel paint etc complete including cost of materials, labours (Foundation work to be paid separately) Membrane specifications as under : Both side PVDF coat Technical properties (5% variation acceptable) Yarn : PES HT 1100 dtex Weight : 950g/Sqm-28 oz sqyd. Total Thickness : 0.72 mm Width : 267 cm, 105.1 inch. Tensile Strength : 420 / 400 daN / SCM (WRAP *WEFT) Adhesion : 12 daN / SCM Surface Treatment : Formula weldable fluorinated varnish, Light Transmission : 13.50% Flame Ret ardency : MZ P92-507CSFMT 119 ,B1 /DIN4102 Manufacturer's arantee :7 Years (Rate ref.-Khurda Road Division Engineering /etenderestatekur-120-2020 /00881870026578 Dated: 05/10/2020) "	Sqm	800.00	7600.00	6080000.00

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2	2	"Supply and fixing of KALZIP/KINGZIP or equivalent Straight / curved self supported secret fix standing ROOFING SYSTEM in 0.9mm Thick 3004 ALUMINIUM ALLOY. The general roofconstruction shall comprise from bottom to top: (1). Top layer 65/400 profile sheeting manufactured from aluminium selfsupported standing seam roof system from aluminium alloy AA 3004 H46 (AMn1Mg1) as specified in BS EN 1396: 2007 minimum material thickness Of (0.9 mm and PVDF2 finish on the exposed surface- Accessories, Fasteners. The material properties shall be as follows: Ultimate tensile strength: minimum 200 N/mm ² , 0.2% Proof Stress: min 185 N/mm ² . Modulus of elasticity: 70,000 N/mm ² . The panels shall be finished with PVDF. The fluorocarbon coating (2-coat system) shall consist Of:- First coat -Inhibitive primer; With a dry film thickness averaging 5-7 m Second coat -Fluorocarbon colour coat, with a minimum dry film thickness Of 20 microns. The inner side of the panels shall be finished with primer coating of 5-7 microns, The roofing system provider shall be certified with a British Board of Agreement and should have both Factory Mutual (FM4471) & UL Certification (UL-90)."	Sqm	500.00	4924.41	2462205.00
3	3	Providing, supplying, erecting and fixing in position 3mm thick polycarbonate sheets of approved texture and color. Cost to include jointing, sealing with Butul adhesives and takes as per manufacturer's specifications and cover all costs of labour, tools. plants, temporary works all complete.	Sqm	500.00	2534.83	1267415.00
					Total	9809620.00
Item- 9	Special item for platform surfacing at JOC,MDKD & BURN					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Providing and fixing flamed finish Sadarahalli grey or equivalent granite stone (bull-nosed) of size 1200x600x60 mm at platform edge level using 5mm thick approved thick bed adhesive as per specification over prepared base on 20mm (average) thick base of cement mortar in 1:4 (1 cement 4 total aggregate- sand and 10mm single sized aggregate) using 43 grade cement, water reducing admixture as per ISO 9103: 1999 and jointing with white cement with matching colour pigment all complete in leveling course laid to proper slopes over screed base including, base preparation including movement joint in screed as per specification with 10mm thick compressible filler to edge of screed with two parts polysulphide sealant to top edge as per approved drawing and directions of engineer-in-charge. Provision for cutting around PSG pedestals and incorporating inserts shall be included.	Sqm	1500.00	4562.69	6844035.00
2	2	Extra for Jet Black, Icone Brown, Lakha red or Red Silk, Blue pearl ranite	Sqm	550.00	1520.89	836489.50

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3	3	Providing and laying 30mm thick pre-polished granite slab of sizes upto and including : 1200X600 mm on floor using 5 mm thick approved thick bed adhesive as per specification over prepared base on 20mm (average) thick base of cement mortar 1:4 (1 Cement : 4 total aggregates - coarse sand and 10mm single sized aggregates) using 43 grade cement, water reducing admixture as per ISO 9103: 1999 and jointing with white cement with matching colour pigment all complete (Colour of granite as approved by Engineer) in leveling course laid to proper slopes over concrete base including base preparation, movement joint in screed as per specification with 10 mm thick compressible filler to edge of screed/ blockwork junction with two paris polysulphide sealent to top edge, drainage gullies as per approved section, curing, testing etc. all complete as per specifications and relevant drawings.	Sqm	2900.00	3548.76	10291404.00
4	4	Extra for Jet Black, Icone Brown, Lakha red or Red Silk, Blue pearl ranite	Sqm	625.00	1013.92	633700.00
5	5	Extra for Flamed Finish	Sqm	650.00	150.37	97740.50
6	6	Providing and laying 30mm thick prepolished with 25%-35% quantity flamed as per pattern Granite Stone flooring in treads and landings (including bull nosing, rounding the nose and making groove) of steps of approved colour, size and pattern. (sample of granite stone shall be approved by Engineer-incharge) over 20mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with neat cement slurry mixed with pigment to match the shade of granite stone complete as per specifications and architectural drawings.	Sqm	500.00	3548.77	1774385.00
7	7	Extra for Jet Black, Icone Brown, Lakha red or Red Silk, Blue pearl ranite	Sqm	224.00	506.97	113561.28
8	8	Providing and laying 18mm thick mirror polished Granite Stone in Risers of steps of approved colour, size and pattern, (sample of granite stone shall be approved by Engineer-in-charge) over 12 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand) and jointed with neat cement slurry mixed with pigment to match the shade of granite stone complete as per specifications and relevant drawings.	Sqm	160.00	2281.35	365016.00
9	9	Extra for Jet Black, Icone Brown, Lakha red or Red Silk, Blue Pearl ranite	Sqm	96.00	506.97	48669.12
10	10	Providing and laying 30mm thick mirror polished granite stone work of upto and including sizes of 1200mm X 600mm of approved colour/ pattern with 4mm groove all around at all levels for wall linings/ columns/ skirtings (vener work) by mechanical arrangement with SS cramps/ brackets. anchor bolts, 6 mm vertical SS pins of approved make and inserts as per drawings and specifications.(The cost of making necessary grooves all around stone pieces, chamfering of corner edges and polishing, SS cramps/ brackets, anchor bolts, 6 mm vertical SS pins etc., all are inclusive in rate.)	Sqm	500.00	4816.17	2408085.00
11	11	Extra for Jet Black, Icone Brown, Lakha red or Red Silk, Blue Pearl ranite	Sqm	200.00	506.97	101394.00
12	12	Providing & Fixing Polished Granite Coping of Jet Black or any other dark granite stone, bullnosed over 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) with joint treated with white cement mixed with matching pigment including Rubbing, Curing , Moulding & polishing to edge to give high gloss finish etc. complete. 30 mm thick	Sqm	105.00	3802.24	399235.20
13	13	Providing and Laying of Foam Concrete under Raised Floor as / of densit 1200k /cum	cum	7.00	4182.46	29277.22

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14	14	Precast SS water booth (Stainless Steel Sink fixed on precast Base). The rate includes applicable GST rates.	Each	11.00	58410.00	642510.00
					Total	24585501.82
Item- 10	Special item for Improvement to Facade & Elevation at JOC,MDKD & BURN					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	"model landscaping of fountain (14' dia) flora water castle fountain water pattern-A group of geysers (consisting of 16 nos of geysers) throwing milk lead water into air producing an effect like castle. Pool size required 14 feet dia water effect 10 feet height (centre) 4 feet (out circle) max (approx) pump set 2x7.5 HP three phase submersible mono blockl uminatijon singled fixed colour (Brilliant white preferred) 17 nos of water proof light cable/pzanel board cable for pump set and light up to 10 mtr distance and suitable panel board shall be supplied.[Rate as per Sch F/1 of LOA No & Date :-D /K /T / Dev. Stn. Bldg/Improv. Circul Area/ Esclator/ KUR Stn / PRNanda / 394 dtd. 16.04.2018]"	Each	3.00	183000.00	549000.00
2	2	Supplying, fitting & fixing of Sand Stone Statues of decorative ornamental carved structure (Debdasi with pot) of 6'-0" height. The rate includes cost of loading, transporting, unloading, placing at the required locations as directed by the Engineer in charge. The rate also includes all lead, lift, tools & plants, machineries, all taxes including GST applicable (Rate as per Agt. No.154 Q dtd. 22.02.2018, item no A/1)	Each	5.00	60000.00	300000.00
3	3	Supply installation and fixing of sand stone carved "Konark Chakra"/local cultural statue including all finishing with bondtite, touch wood polish, fixing over base etc. Complete in all respect including all materials, labour charges, transportation, scaffolding, crane for lifting & fixing etc. Size- 6 ft dia and (similar) based of jharkhand culture.	Each	3.00	413000.00	1239000.00
4	4	"Design, Supply, fabrication, delivery and erection of Tensile fabric roofing, including steel support frame work of make TATA / JINDAL or similar wire, ropes, cables chemical fasteners, shackles, rigging screws, clamps, tensioning hardware and final finishing with enamel paint etc complete including cost of materials, labours (Foundation work to be paid separately) Membrane specifications as under : Both side PVDF coat Technical properties (5% variation acceptable) Yarn : PES HT 1100 dtex Weight : 950g/Sqm-28 oz sqyd. Total Thickness : 0.72 mm Width : 267 cm, 105.1 inch. Tensile Strength : 420 / 400 daN / SCM (WRAP *WEFT) Adhesion : 12 daN / SCM Surface Treatment : Formula weldable fluorinated varnish, Light Transmission : 13.50% Flame Ret ardency : MZ P92-507CSFMT 119 ,B1 /DIN4102 Manufacturer's arantee :7 Years (Rate ref.-Khurda Road Division Engineering /etenderestatekur-120-2020 /00881870026578 Dated: 05/10/2020) "	Sqm	800.00	7600.00	6080000.00

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5	5	Providing & fixing Toilet Cubicle (of following standard dimension which includes 600mm door size width) made of heat, bacteria, water, chemical, scratch, impact and anti bacterial resistant 12mm thick solid compact laminate panels tested in approved laboratory. Finish of the compact laminate should be Suede, Raw silk model includes doors, pilasters & intermediate panels finished with approved texture/shade as per the detail drawings & as per IS 2046 (Indian Standard) and as per fire retardant BS-476/97 standard. This also includes providing and fixing in position necessary hardware made out of Stainless steel (Grade 304) as per manufacturers specifications & Architects instructions like (1) Door Knob, (2) Gravity Hinges, (3) Thumb turn lockset with Occupancy indicators. (4) Coat hooks with Door stopper (5) U- Channels, (6) Adjustable foot/pedestal, (7) Top rail (8) Rubber noise deafening tape, (9) Screws & wall Plugs, All. screws will of 304 Grade in stainless steel with satin finish. All pilasters are supported by stainless steel Bottom Cladding. The base of the stainless steel bottom cladding will be anchored to the floor with a clearance height upto 150mm. The top fitting should consists of SS top rail which will get fixed with plasters. SS wall fixing is used only on the wall which will hold the SS to rail. Toilet Cubicle with standard dimension of 2000-2100mm Height x 1000mm Width x 1550mm Depth, which includes 600mm door size width.	Numbers	8.00	36506.37	292050.96
6	6	Toilet Cubicle I-Shape (Front Partition) with standard dimension Of 2000-2100mm Height x 1000mm Width which includes 600mm door size width.	Numbers	8.00	33829.25	270634.00
7	7	Providing and fixing Urinal partition made of 12 mm thick compact laminate total height 1195 mm, Depth 450-500mm, Gap from ground 500 to 600 mm (as per drawing) and fixing Toilet UMP (urinal modesty panel) made up of thermosetting resign treated high pressure, self supporting decorative compact laminates with permanently incorporate anti-bacterial agents (under JIS Z2801 :2000 certification) during manufacturing. Compact board should be resistance to water immersion through permissible increase on thickness and mass and board density >1.35kg/cm ³ and fulfilled the criteria of green guard gold certification and manufactured under EN43B2&3:2005 standard. 12mm thick compact board should be Moisture resistant. Impact resistant, termite resistant, Scratch resistant *Weather and climatic shock resistant, Finish of compact laminates should be suede finish which includes door. pilasters and intermediate panels finished with approved texture/shades as per IS2046 and fulfilled the criteria of fire retardant under BS-476/97 and EN438-6 with classification of BSI DO standard, Screw & wall plugs should be approved under the instruction of Engineer-incharge, All screw will of 304 grade in SS with stain finish. All pilasters are supported by SS bottom cladding. Stainless steel L clamp is used to attach the divider to the wall. stainless steel L clamp hardware fittings along with SS 304 screws are used to fix the Urinal partitions on the wall	Numbers	12.00	5001.37	60016.44

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8	8	Providing and laying sand blasted finish granite stones in desired colour as per control sample of sizes upto including 1200x600x30mm as per pattern on floor using 5mm thick approved thick bed adhesive as per specification over prepared base on 20mm (average) thick base of cement mortar (1 cement 4 coarse sand) laid and jointed with neat cement slurry mixed With pigment to match the shade of granite stone complete as per specifications and architectural drawings. in external development areas. With Jet Black, Icone Brown, Lakha red or Red Silk, Blue Pearl granite	Sqm	500.00	4707.21	2353605.00
9	9	Providing and fixing of Unistone/ Hindustan tiles or equivalent glass reinforced concrete (G.R.C) flooring paving tiles in sizes of 152mm x 152mm /305mm x 305mm. The thickness of the tiles should range between 22 to 25mm, allowing variance of ± 5mm in accordance with IS: 1237-1980. The tiles should be made with M-40 Grade concrete mix design having '43' grade White Portland cement, reinforced with Alkali Resistant glass fiber and the pigmentation should be done with exterior grade synthetic inorganic iron oxide pigments manufactured by 'BAYFERROX (Germany)' or equivalent with high vibration technology. The pigmentation should be homogeneous and in accordance with British standard BS EN 12878:1999. The other additives should be fine washed graded quartz super plasticizers and integrated water proffers agents and others. The top surface of the tiles should be sealed with acrylic lacquer resulting in surface water absorption of tiles less than 1%, and water absorption by 24 hours immersion method less than 8% and shall be laid over 20mm thick cement mortar bed 1:3 (1 cement 3 coarse sand) as specified in the manufacturer's instructions.	Sqm	850.00	1267.41	1077298.50
10	10	Providing and laying 75 mm thick compacted bed of dry brick aggregate of 40 mm thick nominal size including spreading, well ramming, consolidating and grouting with jamuna sand, including finishing smooth etc. complete as per direction of Engineer in charge.	Sqm	250.00	182.41	45602.50
11	11	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	80.00	8646.70	691736.00
12	12	Providing and laying C.C. pavement of mix M-25 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator , vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-incharge. (The panel shuttering work shall be paid for separately). (Note:Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/ recoverable separately).	cum	80.00	8942.87	715429.60

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13	13	"Supply and fixing of KALZIP/KINGZIP or equivalent Straight / curved self supported secret fix standing ROOFING SYSTEM in 0.9mm Thick 3004 ALUMINIUM ALLOY. The general roofconstruction shall comprise from bottom to top: (1). Top layer 65/400 profile sheeting manufactured from aluminium selfsupported standing seam roof system from aluminium alloy AA 3004 H46 (AMn1Mg1) as specified in BS EN 1396: 2007 minimum material thickness Of (0.9 mm and PVDF2 finish on the exposed surface- Accessories, Fasteners. The material properties shall be as follows: Ultimate tensile strength: minimum 200 N/mm ² , 0.2% Proof Stress: min 185 N/mm ² . Modulus of elasticity: 70,000 N/mm ² . The panels shall be finished with PVDF. The fluorocarbon coating (2-coat system) shall consist Of:- First coat -Inhibitive primer; With a dry film thickness averaging 5-7 m Second coat -Fluorocarbon colour coat, with a minimum dry film thickness Of 20 microns. The inner side of the panels shall be finished with primer coating of 5-7 microns, The roofing system provider shall be certified with a British Board of Agreement and should have both Factory Mutual (FM4471) & UL Certification (UL-90). "	Sqm	600.00	4924.41	2954646.00
14	14	Providing, supplying, erecting and fixing in position 3mm thick polycarbonate sheets of approved texture and color. Cost to include jointing, sealing with Butul adhesives and takes as per manufacturer's specifications and cover all costs of labour, tools. plants, temporary works all complete.	Sqm	600.00	2534.83	1520898.00
15	15	External texture paint	Sqm	450.00	425.68	191556.00
16	16	VE Panel	Sqm	350.00	1367.00	478450.00
17	17	Supply & fixing of minimum 1.2mm thick vitreous Enamel panel (Fahrenheit Make) and maximum size length of 1800mm x 100mm (Maximum length 3000mm X 1400mm), with the enamel coating of ground coat 70um cover coat 80um, total 180um depended on colour. The spray will be of dry powder electrostatic adsorption. The panel will be puffed with 15mm Aluminium Honeycomb for excellent rigidity and sound proofing, Immune to corrosion and backing with 0.5mm electro galvanised steel with moisture resistant coating behind the rigidity support backing. Adhesive will of Epoxy resin glue and will be sealed with Dow Corning 995 weather silicone sealant. The panel will be fixed on the frame work as back support (Digital Print). Note: All colours are not made by dry powder electrostatic absorption; white or light grey colour can be complete powder enamelled. Suppose if you choose red colour, we need to make the panels in white colour by powder enamelling first, then we have to make the white panel red by wet enamelling (along with back frame structure).	Sqm	75.00	22232.00	1667400.00
18	18	Mridul work	Sqm	100.00	8631.00	863100.00
					Total	21350423.00
Item- 11	Special item for Improvement of interior, Waiting halls etc.at JOC,MDKD & BURN					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Wall panelling	Square Foot	700.00	1750.00	1225000.00
2	2	Beautification of Staion by weather proof wall painting depicting Bengal folk art & Jharkhand folk art over walls at stations. Before painting the wall should be thoroughly cleaned and painted with suitable weather proof agent. The rate includes all taxes and the work is to be executed as per direction of Engineer-in charge.	Square Foot	2300.00	83.81	192763.00

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3	3	Providing and fixing acoustic insulation of ceiling at Platform and Concourse levels with resin bonded Fibre Glass Wool confirming to IS:8193. (Twigalnsul 1500/50 mm or equivalent) density 24 kg/cum., 50mm thick wrapped in black glass cloth and wire mesh, fixed in position on the soffit of slab by fasteners etc complete as per drawings and specification and the direction of Engineer-in-Charge.	Sqm	500.00	367.55	183775.00
4	4	Providing & Fixing 300mm wide SS Grating of length as per architectural drawing with 3mm thick 304 Grade SS pressed plate with 6mm wide slits @ 15mm c/c with 35mm X 35mm X 5mm SS grade 304 tube section welded all around edges and at suitable interval for support. flushed with Floor finish including providing & fixing necessary MS angle frame etc. complete as per architectural drawing (for payment purposes only SS item shall be measured).	Kg	700.00	570.34	399238.00
5	5	Providing & installing Fixed glazed wall assembly with specified fixing & finish using of 2 sheets 6mm thick toughened glass with nominal gap silicon sealant joint. Glass shall be clear, toughened and laminated with 1.52mm thick polyvinyl butyral layer, Glass held with SS patch fittings - all complete as per relevant architectural drawings and specification with cut out & holes. (ticket offices, Station Control Room, etc.)	Sqm	375.00	7604.48	2851680.00
6	6	Providing and fixing of 6mm thick premium GRIHA rated lacquered glass - AIS Decor from Asahi India Glass Ltd or equivalent of approved colour, fixed with compatible neutral grade silicon/Tape/studs on a perfectly levelled 12mm thick water proof marine plywood / MDF / Mineral fibre board which is mounted on RCC wall/any other structure. Lacquered glass must be made industrially (using curtain coating process); opaque (if viewed against a support wall), uniformly coated with PU lacquer (45 +/- 5 micron thick coating or more); panel to panel colour consistency (measured by photo spectrometer); highly durable (passes hardness test for minimum 220 oscillations); humidity resistance (conforms to BS EN 1036 1999 or equivalent) ; environmentally friendly having Low VOC (no lead, no arsenic, no copper, no formaldehyde), low VOC content <100g/l. Silicone used should not react with lacquer coating (compatible neutral cure silicon) & should be used as per Glass suppliers application guidelines.	Sqm	30.00	5666.10	169983.00
7	7	Providing and fixing 12mm thick counter tops for TOM/ SCR/ EFO/ Wash Rooms with Wash Basins troughs or column cladding of solid Acrylic material over 12mm external grade ply/cement board with all necessary framework, fasteners etc including making provisions tot fixing fittings etc complete.	Sqm	50.00	8871.91	443595.50

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8	8	"Providing & Fixing of Glass Reinforced Concrete (G.R.C) Jali 40mm thick in approved size, pattern, design, thickness and color to be fixed on/between RCC/Block work Column or Structural Steel work with 'Dry fixing' method with Stainless Steel (SS - 304) 'L' shaped Clamps, dash fasteners and pins including anchoring, lifting, scaffolding etc. complete as per architectural drawing and manufacture specification. The Screens should be made from '53 grade' White Portland Cement manufactured by 'JK Cement' or equivalent, Quartz, Fine Silica Sand, Alkali Resistant Glass Fiber manufactured by 'Saint Gobain' or equivalent, Super Plasticizers manufactured by 'BASF' or equivalent, Polymers manufactured by 'BASF' or equivalent and U.V resistant Synthetic inorganic pigments should be used for pigmentation manufactured by 'BAYFERROX (Germany)' or equivalent. The material casting should take place in Synthetic Rubber / FRP Mould manufactured by 'Reckli' or equivalent. (All appropriate supporting structure steel work shall be paid extra as per DSR item no 10.25/10.26) "	Sqm	600.00	3551.68	2131008.00
9	9	Filling the gap in between aluminium frame & adjacent RCC/Brick/Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge. U to 5mm depth and 5 mm width	Metre	50.00	82.02	4101.00
10	10	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & double action 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	20.00	4591.57	91831.40
11	11	Mridul tiles	Sqm	200.00	10331.14	2066228.00
12	12	Modular toilet	Each	8.00	57702.00	461616.00
13	13	Modular bench	Each	20.00	10000.00	200000.00
14	14	"Supplying and application of heritage surface texture in granite finishing including all lead lift taxes etc complete as per instruction of Engineer-in-charge at site. Rate taken from Agrt. No- Works/SSE/(W)/PRR/31//20/2 Dt-03.02.2012 + 737.88 + 4% =767.40 + 55%, Escalation @ 5% per year i.e. 1189.47 sqm"	Sqm	700.00	1189.47	832629.00
					Total	11253447.90
Item- 12	Special item for VIP Lounge Renovation at JOC,MDKD & BURN					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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1	1	Providing and fixing 200x200mm baffle ceiling (200mm Width & 200mm Height) system comprising of closed box shaped profiles-Metal baffle shall be made out of 0.7-0.9 mm thick electro galvanized steel material in lengths of up to 2400mm. The Coil should be stove enameled on a continuous application for pre-treatment. The coils to go through 4 stages of pretreatment, three times oven baked through conversion coating, priming and finish coat ensuring superior adhesion, high corrosion resistance and good colour stability. The coils to be painted on both sides after degreasing. Inside surface to have a primer of 5 microns and a coat of natural colour of 5 microns, exposed surface to have a primer of 5 microns, binder Of 5 microns and topcoat of approved colour of 15 microns. Baffle Ceiling shall be mounted on slotted galvanized steel grid profile of minimum 2mm thickness in a module of 225mm. Baffle grid shall be suspended and supported by means of minimum 6mm dia threaded suspenders at a distance of 150mm from the edge and 1200mm maximum spacing. Baffle fixing brackets shall be used to keep the ceiling in correct place for the levelling purpose. Metal baffles shall be coil coated in desired colour. Baffle ceiling system shall be installed in compliances with manufactures technical installation brochure and manual. At accessories like end caps, column rings etc are included wherever re uired.	Sqm	1100.00	3802.25	4182475.00
2	2	Providing and fixing acoustic insulation of ceiling at Platform and Concourse levels with resin bonded Fibre Glass Wool confirming to IS:8193. (Twigalnsul 1500/50 mm or equivalent) density 24 kg/cum., 50mm thick wrapped in black glass cloth and wire mesh, fixed in position on the soffit of slab by fasteners etc complete as per drawings and specification and the direction of Engineer-in-Charge.	Sqm	400.00	367.55	147020.00
3	3	Filling the gap in between aluminium frame & adjacent RCC/Brick/Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of En ineer-in-char e com lete. U to 5mm de th and 5 mm width	Metre	100.00	82.02	8202.00
4	4	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & double action hydraulic floor spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-incharge (Door handle, lock and stopper etc.to be paid separately).	Sqm	40.00	4591.57	183662.80

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5	5	Providing and fixing of 6mm thick premium GRIHA rated lacquered glass - AIS Decor from Asahi India Glass Ltd or equivalent of approved colour, fixed with compatible neutral grade silicon/Tape/studs on a perfectly levelled 12mm thick water proof marine plywood / MDF / Mineral fibre board which is mounted on RCC wall/any other structure. Lacquered glass must be made industrially (using curtain coating process); opaque (if viewed against a support wall), uniformly coated with PU lacquer (45 +/- 5 micron thick coating or more); panel to panel colour consistency (measured by photo spectrometer); highly durable (passes hardness test for minimum 220 oscillations); humidity resistance (conforms to BS EN 1036 1999 or equivalent) ; environmentally friendly having Low VOC (no lead, no arsenic, no copper, no formaldehyde), low VOC content <100g/l. Silicone used should not react with lacquer coating (compatible neutral cure silicon) & should be used as per Glass suppliers application guidelines.	Sqm	100.00	5666.10	566610.00
6	6	Providing and fixing 12mm thick counter tops for TOM/ SCR/ EFO/ Wash Rooms with Wash Basins troughs or column cladding of solid Acrylic material over 12mm external grade ply/cement board with all necessary framework, fasteners etc including making provisions tot fixing fittings etc complete.	Sqm	200.00	8871.90	1774380.00
					Total	6862349.80
Item- 13	Special item for Divyangjan at JOC,MDKD & BURN					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Float glass panes of nominal thickness 4 mm (weight not less than 10 kg/sqm)	Sqm	600.00	309.00	185400.00
2	2	Poly propylene- Random - Co - Polymer (PPR) pipes PN-10 (SDR 11) - 110 mm Outer dia	Metre	600.00	890.00	534000.00
3	3	Supplying prefabricated Knock down railing system of MATTE FINISH of height (900 to 1 100 mm) SS railing as per design comprising of 38/50mm OD Stainless steel Grade 304, 3.15mm thick, 25mm dia jointing pin, SS Spider/ patch fittings, SS base plate, Pipe adjuster M 16X200mm SS fasteners for fixing railing in floor/staircase by cutting hole of required dia covering with SS cover plate complete in all respect with 12mm thick toughened glass and fixed with SS brackets and hinges and making good the flooring as per Specifications and Architectural Drawings and of approved manufacturer.	RM	500.00	12420.66	6210330.00
4	4	"Providing and Fixing of anticorrosive high-grade AISI SS 316 Anti-Skid Stainless Steel Strip Tactile Ground Surface Indicators (TGSIs) (directional) to provide the vision impaired with a uniform system of tactile cues of approx. Size 280 X 35x5 mm thick sheet by drilling in stone and filling with epoxy. "	Each	26100.00	281.11	7336971.00

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5	5	Providing & fixing Toilet Cubicle (of following standard dimension which includes 600mm door size width) made of heat, bacteria, water, chemical, scratch, impact and anti bacterial resistant 12mm thick solid compact laminate panels tested in approved laboratory. Finish of the compact laminate should be Suede, Raw silk model includes doors, pilasters & intermediate panels finished with approved texture/shade as per the detail drawings & as per IS 2046 (Indian Standard) and as per fire retardant BS-476/97 standard. This also includes providing and fixing in position necessary hardware made out of Stainless steel (Grade 304) as per manufacturers specifications & Architects instructions like (1) Door Knob, (2) Gravity Hinges, (3) Thumb turn lockset with Occupancy indicators. (4) Coat hooks with Door stopper (5) U- Channels, (6) Adjustable foot/pedestal, (7) Top rail (8) Rubber noise deafening tape, (9) Screws & wall Plugs, All. screws will of 304 Grade in stainless steel with satin finish. All pilasters are supported by stainless steel Bottom Cladding. The base of the stainless steel bottom cladding will be anchored to the floor with a clearance height upto 150mm. The top fitting should consists of SS top rail which will get fixed with plasters. SS wall fixing is used only on the wall which will hold the SS to rail. Toilet Cubicle with standard dimension of 2000-2100mm Height x 1000mm Width x 1550mm Depth, which includes 600mm door size width.	Numbers	12.00	36506.37	438076.44
6	6	Toilet Cubicle I-Shape (Front Partition) with standard dimension Of 2000-2100mm Height x 1000mm Width which includes 600mm door size width.	Numbers	12.00	33829.25	405951.00
7	7	Providing and fixing Urinal partition made of 12 mm thick compact laminate total height 1195 mm, Depth 450-500mm, Gap from ground 500 to 600 mm (as per drawing) and fixing Toilet UMP (urinal modesty panel) made up of thermosetting resign treated high pressure, self supporting decorative compact laminates with permanently incorporate anti-bacterial agents (under JIS Z2801 :2000 certification) during manufacturing. Compact board should be resistance to water immersion through permissible increase on thickness and mass and board density >1.35kg/cm ³ and fulfilled the criteria of green guard gold certification and manufactured under EN43B2&3:2005 standard. 12mm thick compact board should be Moisture resistant. Impact resistant, termite resistant, Scratch resistant *Weather and climatic shock resistant, Finish of compact laminates should be suede finish which includes door. pilasters and intermediate panels finished with approved texture/shades as per IS2046 and fulfilled the criteria of fire retardant under BS-476/97 and EN438-6 with classification of BSI DO standard, Screw & wall plugs should be approved under the instruction of Engineer-incharge, All screw will of 304 grade in SS with stain finish. All pilasters are supported by SS bottom cladding. Stainless steel L clamp is used to attach the divider to the wall. stainless steel L clamp hardware fittings along with SS 304 screws are used to fix the Urinal partitions on the wall	Numbers	18.00	5001.37	90024.66

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8	8	Providing and laying 30mm thick mirror polished granite stone work of upto and including sizes of 1200mm X 600mm of approved colour/ pattern with 4mm groove all around at all levels for wall linings/ columns/ skirtings (veneer work) by mechanical arrangement with SS cramps/ brackets. anchor bolts, 6 mm vertical SS pins of approved make and inserts as per drawings and specifications.(The cost of making necessary grooves all around stone pieces, chamfering of corner edges and polishing, SS cramps/ brackets, anchor bolts, 6 mm vertical SS pins etc., all are inclusive in rate.)	Sqm	490.00	4816.17	2359923.30
9	9	Extra for Jet Black, Icone Brown, Lakha red or Red Silk, Blue Pearl ranite	Sqm	200.00	506.97	101394.00
					Total	17662070.40
Item- 14	Special item for Divyangjan at PRR,ANR,CNI & BBM					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supplying prefabricated Knock down railing system of MATTE FINISH of height (900 to 1 100 mm) SS railing as per design comprising of 38/50mm OD Stainless steel Grade 304, 3.15mm thick, 25mm dia jointing pin, SS Spider/ patch fittings, SS base plate, Pipe adjuster M 16X200mm SS fasteners for fixing railing in floor/staircase by cutting hole of required dia covering with SS cover plate complete in all respect with 12mm thick toughened glass and fixed with SS brackets and hinges and making good the flooring as per Specifications and Architectural Drawings and of approved manufacturer.	RM	800.00	12420.66	9936528.00
2	2	"Providing and Fixing of anticorrosive high-grade AISI SS 316 Anti-Skid Stainless Steel Strip Tactile Ground Surface Indicators (TGSIs) (directional) to provide the vision impaired with a uniform system of tactile cues of approx. Size 280 X 35x5 mm thick sheet by drilling in stone and filling with epoxy.	Each	3100.00	281.10	871410.00
3	3	Providing & fixing Toilet Cubicle (of following standard dimension which includes 600mm door size width) made of heat, bacteria, water, chemical, scratch, impact and anti bacterial resistant 12mm thick solid compact laminate panels tested in approved laboratory. Finish of the compact laminate should be Suede, Raw silk model includes doors, pilasters & intermediate panels finished with approved texture/shade as per the detail drawings & as per IS 2046 (Indian Standard) and as per fire retardant BS-476/97 standard. This also includes providing and fixing in position necessary hardware made out of Stainless steel (Grade 304) as per manufacturers specifications & Architects instructions like (1) Door Knob, (2) Gravity Hinges, (3) Thumb turn lockset with Occupancy indicators. (4) Coat hooks with Door stopper (5) U- Channels, (6) Adjustable foot/pedestal, (7) Top rail (8) Rubber noise deafening tape, (9) Screws & wall Plugs, All. screws will of 304 Grade in stainless steel with satin finish. Al pilasters are supported by stainless steel Bottom Cladding. The base of the stainless steel bottom cladding will be anchored to the floor with a clearance height upto 150mm. The top fitting should consists of SS top rail which will get fixed with plasters. SS wall fixing is used only on the wall which will hold the SS to rail. Toilet Cubicle with standard dimension of 2000-2100mm Height x 1000mm Width x 1550mm Depth, which includes 600mm door size width.	Numbers	16.00	36506.37	584101.92
4	4	Toilet Cubicle I-Shape (Front Partition) with standard dimension Of 2000-2100mm Height x 1000mm Width which includes 600mm door size width.	Numbers	16.00	33829.24	541267.84

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5	5	Providing and fixing Urinal partition made of 12 mm thick compact laminate total height 1195 mm, Depth 450-500mm, Gap from ground 500 to 600 mm (as per drawing) and fixing Toilet UMP (urinal modesty panel) made up of thermosetting resin treated high pressure, self supporting decorative compact laminates with permanently incorporate anti-bacterial agents (under JIS Z2801 :2000 certification) during manufacturing. Compact board should be resistance to water immersion through permissible increase on thickness and mass and board density >1.35kg/cm ³ and fulfilled the criteria of green guard gold certification and manufactured under EN43B2&3:2005 standard. 12mm thick compact board should be Moisture resistant. Impact resistant, termite resistant, Scratch resistant *Weather and climatic shock resistant, Finish of compact laminates should be suede finish which includes door. pilasters and intermediate panels finished with approved texture/shades as per IS2046 and fulfilled the criteria of fire retardant under BS-476/97 and EN438-6 with classification of BSI DO standard, Screw & wall plugs should be approved under the instruction of Engineer-incharge, All screw will of 304 grade in SS with stain finish. All pilasters are supported by SS bottom cladding. Stainless steel L clamp is used to attach the divider to the wall. stainless steel L clamp hardware fittings along with SS 304 screws are used to fix the Urinal partitions on the wall	Numbers	24.00	5001.40	120033.60
6	6	Providing and laying 30mm thick mirror polished granite stone work of upto and including sizes of 1200mm X 600mm of approved colour/ pattern with 4mm groove all around at all levels for wall linings/ columns/ skirtings (veneer work) by mechanical arrangement with SS cramps/ brackets. anchor bolts, 6 mm vertical SS pins of approved make and inserts as per drawings and specifications.(The cost of making necessary grooves all around stone pieces, chamfering of corner edges and polishing, SS cramps/ brackets, anchor bolts, 6 mm vertical SS pins etc., all are inclusive in rate.)	Sqm	565.00	4816.17	2721136.05
7	7	Extra for Jet Black, Icone Brown, Lakha red or Red Silk, Blue Pearl ranite	Sqm	275.00	506.96	139414.00
8	8	Float glass panes of nominal thickness 4 mm (weight not less than 10 kg/sqm)	Sqm	800.00	309.00	247200.00
9	9	Poly propylene- Random - Co - Polymer (PPR) pipes PN-10 (SDR 11) - 110 mm Outer dia	Metre	800.00	890.00	712000.00
					Total	15873091.41
Item- 15	Special item for Horticulture at JOC,MDKD & BURN					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Cycus Revoluta of Leaves 35-40 in cement pots of size 45 cm	Each	600.00	1279.97	767982.00
					Total	767982.00
Item- 16	Special item for Improvement to Traffic circulation area & Beautification of circulating area at JOC,MDKD & BURN					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Hireing and running charges of tipper	Day	5.00	3750.00	18750.00
2	2	Hireing and running charges of loader	Day	5.00	6000.00	30000.00
3	3	Hydrolic excavator of 1 CUM bucket	Hour	50.00	800.00	40000.00
4	4	Turfing / planting, including all lead & lift and watering as required until properly rooted with. Note: Initially payment of only 40% will be made. Balance 60% will be paid after 3 months of maintenance period, only if the turfing is properly rooted on entire turfed area. Turfing with sods, 10cm thick and 20cm square closely laid.	100 Sqm	1000.00	5460.99	54609.90

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5	5	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	25.00	8646.70	216167.50
6	6	Providing and laying C.C. pavement of mix M-25 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator , vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-incharge. (The panel shuttering work shall be paid for separately). (Note:Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/ recoverable separately).	cum	25.00	8942.87	223571.75
					Total	583099.15
Schedule	Schedule C-Supply of Reinforcement Steel covered Under CPWD DSR-2021-Ver-2					
Item- 1	Supply of Reinforcement steel at JOC,MDKD & BURN					
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	16221.25	89.65	1454235.06
					Total	1454235.06
Item- 2	Supply of Reinforcement steel at PRR,ANR,CNI & BBM					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	5.0	REINFORCED CEMENT CONCRETE				
	5.22S	STEEL REINFORCEMENT				
	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
1	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	20180	89.65	1809137
					Total	1809137.00
Schedule	Schedule D-Execution of work covered under CPWD HORTICULTURE-2020					
Item- 1	Horticulture work at JOC, MDKD & BURN					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	2.0	HORTICULTURE AND LANDSCAPING				
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	300	515.6	154680
2	2.6	Uprooting weeds from the trenched area after 10 to 15 days of its flooding with water including disposal of uprooted vegetation.	Sqm	1400	4.9	6860
3	2.9	Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge	cum	320	36.55	11696

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	2.10	Grassing with selection No. 1 / Doob grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn, free from weeds and fit for mowing including supplying good earth, if needed (the grass and good earth shall be paid for separately).				
4	2.10.1	In rows 5 cm apart in both directions	Sqm	1450	17.7	25665
5	2.33	Providing and laying Neelgiri/Mexican grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with tools wooden (Dhurmos) and then rolling the surface with light roller make the surface smoothen and light watering with sprinkler and maintenance for 30 days or more till the grass establish properly, as per direction of officer-in-charge	Sqm	3500	214.4	750400
	3.0	FOLIAGE AND SHADE LOVING PLANTS				
6	3.21	Providing and displaying of Areca Palm having ht. 1.80 m to 2.10 m with 8 to 10 suckers, well developed, fresh and healthy with lush green foliage in 30 cm size of Earthen pot/Plastic pot & as per direction of the officer-in-charge.	Each	550	349.55	192252.5
	5.0	ORNAMENTAL PLANTS				
7	5.5	Providing and Displaying Adenium Obesum grafted well developed with fresh & healthy 30 to 60 cm ht. in 25 cm size Earthen Pot/ Plastic Pot as per direction of the officer-in-charge.	Each	300	287	86100
8	5.28	Providing and Displaying Ficus Starlight with fresh, healthy and attractive foliage 45 to 60 cm spread 75 to 90 cm ht., specimen bushy ,in 35 cm Cement Pot as per direction of the officer-in-charge.	Each	280	861	241080
	7.0	TREE PLANTS				
9	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	300	180	54000
					Total	1522733.50
Item- 2	Horticulture at PRR, ANR, CNI & BBM					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	2.0	HORTICULTURE AND LANDSCAPING				
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	450	515.6	232020
2	2.6	Uprooting weeds from the trenched area after 10 to 15 days of its flooding with water including disposal of uprooted vegetation.	Sqm	2000	4.9	9800
3	2.9	Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge	cum	400	36.55	14620
	2.10	Grassing with selection No. 1 / Doob grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn, free from weeds and fit for mowing including supplying good earth, if needed (the grass and good earth shall be paid for separately).				
4	2.10.1	In rows 5 cm apart in both directions	Sqm	1800	17.7	31860
5	2.33	Providing and laying Neelgiri/Mexican grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with tools wooden (Dhurmos) and then rolling the surface with light roller make the surface smoothen and light watering with sprinkler and maintenance for 30 days or more till the grass establish properly, as per direction of officer-in-charge	Sqm	7000	214.4	1500800

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	3.0	FOLIAGE AND SHADE LOVING PLANTS				
6	3.21	Providing and displaying of Areca Palm having ht. 1.80 m to 2.10 m with 8 to 10 suckers, well developed, fresh and healthy with lush green foliage in 30 cm size of Earthen pot/Plastic pot & as per direction of the officer-in-charge.	Each	550	349.55	192252.5
	5.0	ORNAMENTAL PLANTS				
7	5.5	Providing and Displaying Adenium Obesum grafted well developed with fresh & healthy 30 to 60 cm ht. in 25 cm size Earthen Pot/ Plastic Pot as per direction of the officer-in-charge.	Each	500	287	143500
8	5.28	Providing and Displaying Ficus Starlight with fresh, healthy and attractive foliage 45 to 60 cm spread 75 to 90 cm ht., specimen bushy ,in 35 cm Cement Pot as per direction of the officer-in-charge.	Each	500	861	430500
	7.0	TREE PLANTS				
9	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	400	180	72000
					Total	2627352.50

4. ELIGIBILITY CONDITIONS

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

Special Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
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1	<p>Bid Capacity: The tender/technical bid will be evaluated based on bid capacity formula detailed as Annexure-VI of GCC 2022 with up to date correction slip of GCC. The tenderer will be qualified only if its available bid capacity is equal to or more than the total bid value of the present tender. The available bid capacity shall be calculated as under: Available Bid Capacity = $[A \times N \times 2] - 0.33 \times N \times B$ Where, A = Maximum value of construction works executed and payment received in any one of the previous three financial years or the current financial year (up to date of inviting tender), taking into account the completed as well as works in progress. N= Number of years prescribed for completion of work for which bids has been invited. B= Existing commitments and balance amount of ongoing works with tenderer as per the prescribed proforma of Railway for statement of all works in progress and also the works which are awarded to tenderer but yet not started upto the date of inviting of tender. Note: (a) The Tenderer(s) shall furnish the details of - (i) Maximum value of construction works executed and payment received in any one of the previous three financial years or the current financial year (up to date of inviting tender) for calculating A, and (ii) Existing commitments and balance amount of ongoing works with tenderer as per the prescribed proforma of Railway for statement of all works in progress and also the works which are awarded to tenderer but yet not started upto the date of inviting of tender for calculating B. In case of no works in hand, a 'NIL' statement should be furnished. The submitted details for (i) and (ii) above should be duly verified by Chartered Accountant. (b) In case if a bidder is JV, the tenderer(s) must furnish the details of (i) Maximum value of construction works executed and payment received in any one of the previous three financial years or the current financial year (up to date of inviting tender) by each member of JV for calculating A, and (ii) Existing commitments and balance amount of ongoing works with each member of JV either in individual capacity or as a member of other JV as per the prescribed proforma of Railway for statement of all works in progress and also the works which are awarded to each member of JV either in individual capacity or as a member of other JV but yet not started upto the date of inviting of tender for calculating B. In case of no works in hand, a 'NIL' statement should be furnished. The submitted details for (i) and (ii) above should be duly verified by Chartered Accountant. (c) Value of a completed work/work in progress/work awarded but yet not started for a Member in an earlier JV shall be reckoned only to the extent of the concerned member's share in that JV for the purpose of satisfying his/her compliance to the above mentioned bid capacity in the tender under consideration. (d) The arithmetic sum of individual "bid capacity" of all the members shall be taken as JV's "bid capacity". (e) In case, the tenderer/s failed to submit the above statement along with offer, their/his offer shall be considered as incomplete and will be rejected summarily. (f) The available bid capacity of tenderer shall be assessed based on the details submitted by the tenderer. In case, the available bid capacity is lesser than estimated cost of work put to tender, his offer shall not be considered even if he has been found eligible in other eligibility criteria/tender requirement.</p>	No	No	Allowed (Mandatory)
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Submission of Document Verification Certificate

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	<p>Please submit a certificate in the prescribed format (please download the format from the link given below) for verification / confirmation of the documents submitted for compliance of eligibility / qualifying criteria. Non submission of the certificate, or submission of certificate either not properly filled in, or in a format other than the prescribed format shall lead to summary rejection of your offer. (Click here to download the Format of Self Certificatio</p>	No	No	Allowed (Mandatory)

Standard Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
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**ADRA DIVISION-ENGG/SOUTH EASTERN RLY
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1	<p>(Technical Eligibility Criteria: (a) 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. (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 fulfillment of technical eligibility criteria for different components. (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. (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 Contractor 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.</p>	No	No	Allowed (Mandatory)
1.1	<p>However, if required in tender documents by way of Special Conditions, a formal agreement duly notarised, legally enforceable in the court of law, shall be executed by the main contractor with the subcontractor for the component(s) of work proposed to be executed by the subcontractor(s), and shall be submitted along with the offer for considering subletting of that scope of work towards fulfilment of technical eligibility. Such subcontractor must fulfill technical eligibility criteria as follows: The subcontractor shall have successfully completed at least one work similar to work proposed for subcontract, costing not less than 35% value of work to be subletted, in last 5 years, ending last day of month previous to the one in which tender is invited through a works contract. Note: for subletting of work costing up to Rs 50 lakh, no previous work experience of subcontractor shall be asked for by the Railway. In case after award of contract or during execution of work it becomes necessary for contractor to change subcontractor, the same shall be done with subcontractor(s) fulfilling the requirements as per clause 7 of the Standard General Conditions of Contract, with prior approval of Chief Engineer in writing. Note for Technical Eligibility Criteria: Work experience certificate from private individual shall not be considered. However, in addition to work experience certificates issued by any Govt. Organisation, work experience certificate issued by Public listed company having average annual turnover of Rs 500 crore and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, incorporated/registered at least 5 years prior to the date of closing of tender, shall also be considered provided the work experience certificate has been issued by a person authorized by the Public listed company to issue such certificates. In case tenderer submits work experience certificate issued by public listed company, the tenderer shall also submit along with work experience certificate, the relevant copy of work order, bill of quantities, bill wise details of payment received duly certified by Chartered Accountant, TDS certificates for all payments received and copy of final/last bill paid by company in support of above work experience certificate.</p>	No	No	Not Allowed
1.1.1	<p>Credentials if submitted in foreign currency shall be converted into Indian currency i.e., Indian Rupee as under: The conversion rate of US Dollars into Rupees shall be the daily representative exchange rates published by the Reserve Bank of India or entity authorized by RBI to do so for the relevant date or immediately previous date for which rates have been published. Where, relevant date shall be as on the last day of month previous to the one in which tender is invited. In case of any other currency, the same shall first be converted to US Dollars as on the last day of month previous to the one in which tender is invited, and the amount so derived in US Dollars shall be converted into Rupees at the aforesaid rate. The conversion rate of such currencies shall be the daily representative exchange rates published by the International Monetary Fund for the relevant date or immediately previous date for which rates have been published.</p>	No	No	Not Allowed

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1.2	<p>[Explanation for Eligibility Criteria: 1. Substantially Completed Work means an ongoing work in which payment equal to or more than 90% of the present contract value (excluding the payment made for adjustment of Price variation (PVC), if any) has been made to the contractor in that ongoing contract and no proceedings of termination of contract on Contractor's default has been initiated. The credential certificate in this regard should have been issued not prior to 60 days of date of invitation of present tender. 2. In case a work is started prior to 07 (seven) years, ending last day of month previous to the one in which tender is invited, but completed in last 07 (seven) years, ending last day of month previous to the one in which tender is invited, the completed work shall be considered for fulfillment of credentials. 3. If a work is physically completed and completion certificate to this extent is issued by the concerned organization but final bill is pending, such work shall be considered for fulfillment of credentials. 4. In case of completed work, the value of final bill (gross amount) including the PVC amount (if paid) shall be considered as the completion cost of work. In case final bill is pending, only the total gross amount already paid including the PVC amount (if paid) shall be considered as the completion cost of work. In case of substantially completed work, the total gross amount already paid including the PVC amount (if paid), as mentioned in the certificate, shall be considered as the cost of substantially completed work. 5. If a bidder has successfully completed a work as subcontractor and the work experience certificate has been issued for such work to the subcontractor by a Govt. Organization or public listed company as defined in Note for Item 10.1 Para 10 of the Tender Form (Second Sheet) of GCC April - 2022, the same shall be considered for the purpose of fulfillment of credentials.</p>	No	No	Not Allowed
1.2.1	<p>6. In case a work is considered similar in nature for fulfillment of technical credentials, the overall cost including the PVC amount (if paid) of that completed work or substantially completed work, shall be considered and no separate evaluation for each component of that work shall be made to decide eligibility. 7. In case of newly formed partnership firm, the credentials of individual partners from previous propriety firm(s) or dissolved previous partnership firm(s) or split previous partnership firm(s), shall be considered only to the extent of their share in previous entity on the date of dissolution /split and their share in newly formed partnership firm. For example, a partner A had 30% share in previous entity and his share in present partnership firm is 20%. In the present tender under consideration, the credentials of partner A will be considered to the extent of 0.3*0.2*value of the work done in the previous entity. For this purpose, the tenderer shall submit along with his bid all the relevant documents which include copy of previous partnership deed(s), dissolution deed(s) and proof of surrender of PAN No.(s) in case of dissolution of partnership firm(s) etc. 8. In case of existing partnership firm, if any one or more partners quit the partnership firm, the credentials of remaining partnership firm shall be re-worked out i.e., the quitting partner(s) shall take away his credentials to the extent of his share on the date of quitting the partnership firm(e.g. in a partnership firm of partners A, B & C having share 30%, 30% & 40% respectively and credentials of Rs 10 crore; in case partner C quits the firm, the credentials of this partnership firm shall remain as Rs 6 crore). For this purpose, the tenderer shall submit along with his bid all the relevant documents which include copy of previous partnership deed(s), dissolution deed(s) and proof of surrender of PAN No.(s) in case of dissolution of partnership firm(s) etc</p>	No	No	Not Allowed
1.2.2	<p>9. In case of existing partnership firm if any new partner(s) joins the firm without any modification in the name and PAN/TAN no. of the firm, the credentials of partnership firm shall get enhanced to the extent of credentials of newly added partner(s) on the same principles as mentioned in item 6 above. For this purpose, the tenderer shall submit along with his bid all the relevant documents which include copy of previous partnership deeds, dissolution/splitting deeds and proof of surrender of PAN No.(s) in case of dissolution of partnership firm etc. 10. Any partner in a partnership firm cannot use or claim his credentials in any other firm without leaving the partnership firm i.e., In a partnership firm of A&B partners, A or B partner cannot use credentials of partnership firm of A&B partners in any other partnership firm or propriety firm without leaving partnership firm of A&B partners. 11. In case a partner in a partnership firm is replaced due to succession as per succession law, the proportion of credentials of the previous partner will be passed on to the successor. 12. If the percentage share among partners of a partnership firm is changed, but the partners remain the same, the credentials of the firm before such modification in the share will continue to be considered for the firm as it is without any change in their value. Further, in case a partner of partnership firm retires without taking away any credentials from the firm, the credentials of partnership firm shall remain the same as it is without any change in their value. 13. In a partnership firm "AB" of A&B partners, in case A also works as propriety firm "P" or partner in some other partnership firm "AX", credentials of A in propriety firm "P" or in other partnership firm "AX" earned after the date of becoming a partner of the firm AB shall not be added in partnership firm AB. 14. In case a tenderer is LLP, the credentials of tenderer shall be worked out on above lines similar to a partnership firm. 15. In case company A is merged with company B, then company B would get the credentials of company A also.]</p>	No	No	Not Allowed
1.3	Defination of Similar Work :- Any civil engineering work.	No	No	Not Allowed

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Standard Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Financial Eligibility Criteria: The tenderer must have minimum average annual contractual turnover of V/N or 'V' whichever is less; 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.	No	No	Allowed (Mandatory)

5. COMPLIANCE

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

Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Please enter the percentage of local content in the material being offered. Please enter 0 for fully imported items, and 100 for fully indigenous items. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in the tender conditions.	No	Yes	Allowed (Optional)
2	The tenderer has to opt for taking payment through letter of credit (LC) as per Railway Board's letter no. 2018/CE-I/CT/9 dated 4.6.18.	Yes	Yes	Not Allowed
3	Tenderers are required to upload copy of Permanent Account Number, GST registration	Yes	Yes	Allowed (Mandatory)
4	Tenderes are required to upload ESI & EPF regsitration certificate	Yes	Yes	Allowed (Optional)
5	Tenderers are required to furnish a valid and functional email ID and mobile no. to which communication can be done by the Railway Administration	Yes	Yes	Allowed (Optional)

General Instructions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Drawings for the Work: The Drawing for the work can be seen in the office of the DRM(Engg)/S.E. Railway/Adra Railway at any time during the office hours. The drawings are only for the guidance of Tenderer(s). Detailed working drawings (if required) based generally on the drawing mentioned above, will be given by the Engineer or his representative from time to time	No	No	Not Allowed
2	1. Rights of the Railway to deal with Tender: The authority for the acceptance of the tender will rest with the Railway. It shall not be obligatory on the said authority to accept the lowest tender or any other tender, and tenderer(s) shall neither demand any explanation for the cause of rejection of his/ their tender nor the Railway to assign reasons for declining to consider or reject any particular tender or tenders. 2. If the tenderer(s) deliberately gives / give wrong information in his / their tender or creates / create circumstances for the acceptance of his / their tender, the Railway reserves the right to reject such tender at any stage. 3. If any partner(s) of a partnership firm expires after the submission of its tender or after the acceptance of its tender, the Railway shall deem such tender as cancelled/contract as terminated under clause 61 of the Standard General Conditions of Contract, unless the firm retains its character as per partnership agreement. If a sole proprietor expires after the submission of tender or after the acceptance of tender, the Railway shall deem such tender as cancelled / contract as terminated under clause 61 of the Standard General Conditions of Contract.	No	No	Not Allowed

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3	Should a tenderer find the discrepancies in, or omissions from the drawings or any of the tender forms or should be in doubt as to their meaning, he should at once notify the authority inviting tenders who may issue a corrigendum. It shall be understood that every endeavor has been made to avoid any error which can materially affect the basis of the tender and the successful tenders shall take upon himself and provide for the risk of any error which may subsequently be discovered and shall make no subsequent claim on account thereof.	No	No	Not Allowed
4	Before submitting a tender, the tenderer will be deemed to have satisfied himself by actual inspection of the site and locality of the works, that all conditions liable to be encountered during the execution of the works are taken into account and that the rates he entered in the tender form are adequate and all inclusive to accord with the provisions in clause-37 of the General Conditions of Contract for the completion of work to the entire satisfaction of the engineer.	No	No	Not Allowed
5	All these conditions and specifications should carefully be studied by the tenderer / tenderers before submitting his/their tender. He/they should in his/their own interest be well acquainted with the site of work.	No	No	Not Allowed
6	Bid Security: The tenderer shall be required to submit the Bid Security with the tender for the due performance with the stipulation to keep the offer open till such date as specified in the tender, under the conditions of tender. The Bid Security shall be as under: Value of the Work Bid Security (I) For works estimated to cost up to 1 crore- 2% of the estimated cost of Value of the Work (II) For works estimated to cost more than 1 crore- 2 lakh plus ½% (half percent) of the excess of the estimated cost of work beyond 1 crore subject to a maximum of 1 crore Note: (i) The Bid Security shall be rounded off to the nearest 100. This Bid Security shall be applicable for all modes of tendering. (ii) Any firm recognized by Department of Industrial Policy and Promotion (DIPP) as 'Startups' shall be exempted from payment of Bid Security detailed above. (iii) Labour Cooperative Societies shall submit only 50% of above Bid Security detailed above. (b) It shall be understood that the tender documents have been issued to the tenderer and the tenderer is permitted to tender in consideration of stipulation on his part, that after submitting his tender he will not resale from his offer or modify the terms and conditions thereof in a manner not acceptable to the Engineer. Should the tenderer fail to observe or comply with the said stipulation, the aforesaid amount shall be liable to be forfeited to the Railway. (c) If his tender is accepted, this Bid Security mentioned in sub para (a) above will be retained as part security for the due and faithful fulfillment of the contract in terms of Clause 16 of the Standard General Conditions of Contract. The Bid Security of other Tenderers shall, save as herein before provided, be returned to them, but the Railway shall not be responsible for any loss or depreciation that may happen thereto while in their possession, nor be liable to pay interest thereon.	No	No	Not Allowed
7	In case, submission of Bid Security in the form of Bank Guarantee, following shall be ensured:i. A scanned copy of the Bank Guarantee shall be uploaded on e-Procurement Portal (IREPS) while applying to the tender.ii. The original Bank Guarantee should be delivered in person to the official nominated as indicated in the tender document within 5 working days of deadline of submission of bids.iii. Non submission of scanned copy of Bank Guarantee with the bid on e-tendering portal(IREPS) and/or non submission of original Bank Guarantee within the specified period shall lead to summary rejection of bid. iv. The Tender Security shall remain valid for a period of 90 days beyond the validity period for the Tender.v. The details of the BG, physically submitted should match with the details available in the scanned copy and the data entered during bid submission time, failing which the bid will be rejected vi. The Bank Guarantee shall be placed in an envelope, which shall be sealed. The envelope shall clearly bear the identification "Bid for the ***** Project" and shall clearly indicate the name and address of the Bidder. In addition, the Bid Due Date should be indicated on the right hand top corner of the envelope. vii. The envelope shall be addressed to the officer and address as mentioned in the tender document. viii. If the envelope is not sealed and marked as instructed above, the Railway assumes no responsibility for the misplacement or premature opening of the contents of the Bid submitted and consequent losses, if any, suffered by the Bidder.	No	No	Not Allowed

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8	<p>26A.Deployment of Qualified Engineers at Work Sites by the Contractor: 26A.1The Contractor shall also employ qualified Graduate Engineer(s) or equivalent, or qualified Diploma Engineer(s),as prescribed in the tender documents. 26A.2 In case the Contractor fails to employ the Engineer, as aforesaid in Para 26A.1, he shall be liable to pay liquidated damages at the rates, as prescribed in the tender documents. 26A.3 No. of qualified Engineers required to be deployed by the Contractor for various activities contained in the works contract shall be specified in the tender documents as 'Special Condition of Contract'. a.Cost of work Rs.200 Lakhs and above- One Graduate Engineer. b.Cost of work more than Rs.25 Lakhs but less than Rs.200 Lakhs-One Diploma Holder Engineer. Note:- Track related contractual works of values as specified in para-b, individuals having Diploma in Railway Engineerig awarded by IPWE- India shall also be considered as qualified Diploma Holder Engineers and contractors for track contract works can employ such individuals at their worksite on Indian Railway vide Rly. Bds letter No. 2012-CE-I-CT-O-20, Dt- 12.07.2013. In case the contractor fails to employ the Qualified Engineer, as aforesaid in para above, he or him in terms of provisions of clause 26A.2 to the General Conditions of Contract, shall be liable to pay an amount of Rs.40,000 and Rs.25,000 for each month or part thereof for the default period for the provisions as mentioned in para-a and b above respectively</p>	No	No	Not Allowed
9	<p>Security Deposit: The Security Deposit shall be 5% of the contract value. The Bid Security submitted by the Contractor with his tender will be retained/encashed by the Railways as part of security for the due and faithful fulfillment of the contract by the Contractor. Provided further that, if Contractor submits the Cash or Term Deposit Receipt issued from a Scheduled commercial bank of India or irrevocable Bank Guarantee Bond from a Scheduled commercial bank of India, either towards the Full Security Depositor the Part Security Deposit equal to or more than Bid Security, the Railway shall return the Bid Security, to the Contractor. Balance of Security Deposit may be deposited by the Contractor in cash or Term Deposit Receipt issued from Scheduled commercial bank of India or irrevocable Bank Guarantee bond issued from Scheduled commercial bank of India, or may be recovered at the rate of 6% of the bill amount till the full Security Deposit is recovered. Provided also that in case of defaulting Contractor, the Railway may retain any amount due for payment to the Contractor on the pending "on account bills" so that the amounts so retained (including amount guaranteed through Performance Guarantee) may not exceed 10% of the total value of the contract. The Irrevocable Bank Guarantee submitted towards Security deposit shall be initially valid up to the stipulated date of Maintenance period plus 60 days and shall be extended from time to time, depending upon extension of contract granted in terms of Clause 17A and 17B of the Standard General Conditions of Contract. Note: Security Deposit deposited in cash by the Contractor or recovered from the running bills of a Contractor or submitted by contractor as Term Deposit Receipt(s) can be refunded/returned to the contractor, in lieu of irrevocable Bank Guarantee bond issued from scheduled commercial bank of India, to be submitted by him, for an amount equal to or more than the already available Security Deposit, provided however that, in a contract of value less than Rs. 50 Crore, such refund/ return of the already available Security Deposit is permitted up to two times and in a contract of value equal to or more than Rs. 50 Crore, such refund / return of the already available Security Deposit is permitted up to three times</p>	No	No	Not Allowed
10	<p>(i) Refund of Security Deposit: Security Deposit mentioned in sub clause (1) above shall be returned to the Contractor along with or after, the following: (a) Final Payment of the Contract as per clause 51.(1)of GCC 2022 and (b) Execution of Final Supplementary Agreement or Certification by Engineer that Railway has No Claim on Contractor and (c) Maintenance Certificate issued, on expiry of the maintenance period as per clause 50.(1)of GCC 2022, in case applicable. (ii) Forfeiture of Security Deposit: Whenever the contract is rescinded as a whole under clause 62 (1) of GCC 2022 of these conditions, the Security Deposit already with railways under the contract shall be forfeited. However, in case the contract is rescinded in part or parts under clause 62 (1) of these conditions, the Security Deposit shall not be forfeited. (iii) No interest shall be payable upon the Bid Security and Security Deposit or amounts payable to the Contractor under the Contract, but Government Securities deposited in terms of Sub-Clause 16.(4) (b) of this clause will be payable with interest accrued thereon.</p>	No	No	Not Allowed

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11	<p>Performance Guarantee: The procedure for obtaining Performance Guarantee is outlined below: (a) The successful bidder shall have to submit a Performance Guarantee (PG) within 21 (Twenty one) days from the date of issue of Letter of Acceptance (LOA). Extension of time for submission of PG beyond 21 (Twenty one) days and upto 60 days from the date of issue of LOA may be given by the Authority who is competent to sign the contract agreement. However, a penal interest of 12% per annum shall be charged for the delay beyond 21(Twenty one) days, i.e. from 22ndday after the date of issue of LOA. Further, if the 60thday happens to be a declared holiday in the concerned office of the Railway, submission of PG can be accepted on the next working day. In all other cases, if the Contractor fails to submit the requisite PG even after 60 days from the date of issue of LOA, the contract is liable to be terminated. In case contract is terminated railway shall be entitled to forfeit Bid Security and other dues payable to the contractor against that particular contract, subject to maximum of PG amount. In case a tenderer has not submitted Bid Security on the strength of their registration as a Startup recognized by Department of Industrial Policy and Promotion (DIPP) under Ministry of Commerce and Industry, DIPP shall be informed to this effect. The failed Contractor shall be debarred from participating in re-tender for that work. (b) The successful bidder shall submit the Performance Guarantee (PG) in any of the following forms, amounting to 5% of the original contract value:- (i) A deposit of Cash; (ii)Irrevocable Bank Guarantee; (iii) Government Securities including State Loan Bonds at 5% below the market value; (iv) Pay Orders and Demand Drafts tendered by any Scheduled Commercial Bank of India; (v) Guarantee Bonds executed or Deposits Receipts tendered by any Scheduled Commercial Bank of India; (vi) Deposit in the Post Office Saving Bank; (vii) Deposit in the National Savings Certificates; (viii) Twelve years National Defence Certificates; (ix) Ten years Defence Deposits; (x) National Defence Bonds and (xi) Unit Trust Certificates at 5% below market value or at the face value whichever is less. Also, FDR in favour of FA&CAO (free from any encumbrance) may be accepted.</p>	No	No	Not Allowed
12	<p>(c) The Performance Guarantee shall be submitted by the successful bidder after the Letter of Acceptance (LOA) has been issued, but before signing of the contract agreement. This P.G. shall be initially valid upto the stipulated date of completion plus 60 days beyond that. In case, the time for completion of work gets extended, the Contractor shall get the validity of P.G. extended to cover such extended time for completion of work plus 60 days. (d) The value of PG to be submitted by the Contractor is based on original contract value and shall not change due to subsequent variation(s) in the original contract value. (e) The Performance Guarantee (PG) shall be released after physical completion of the work based on 'Completion Certificate' issued by the competent authority stating that the Contractor has completed the work in all respects satisfactorily. (f) Whenever the contract is rescinded, the Performance Guarantee already submitted for the contract shall be encashed. (g) The Engineer shall not make a claim under the Performance Guarantee except for amounts to which the President of India is entitled under the contract (not withstanding and/or without prejudice to any other provisions in the contract agreement) in the event of: (i) Failure by the Contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer may claim the full amount of the Performance Guarantee. (ii) Failure by the Contractor to pay President of India any amount due, either as agreed by the Contractor or determined under any of the Clauses/Conditions of the Agreement, within 30 days of the service of notice to this effect by Engineer. (iii) The Contract being determined or rescinded under clause 62 of these conditions.</p>	No	No	Not Allowed

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13	<p>1. Powers of Modification to Contract: The Engineer on behalf of the Railway shall be entitled by order in writing to enlarge or extend, diminish or reduce the works or make any alterations in their design, character position, site, quantities, dimensions or in the method of their execution or in the combination and use of materials for the execution thereof or to order any additional work to be done or any works not to be done and the Contractor will not be entitled, to any compensation for any increase/reduction in the quantities of work but will be paid only for the actual amount of work done and for approved materials supplied against a specific order (2)(i) Unless otherwise specified in the special conditions of the contract, the accepted variation in quantity of each individual item of the contract would be upto 25% of the quantity originally contracted, except in case of foundation work (in which no variation limit shall apply). However, the rates for the increased quantities shall be as per sub- para (iii) below. (ii) The Contractor shall be bound to carry out the work at the agreed rates and shall not be entitled to any claim or any compensation whatsoever upto the limit of 25% variation in quantity of individual item of works. (iii) In case an increase in quantity of an individual item by more than 25% of the agreement quantity is considered unavoidable, then same shall be executed at following rates (a)Quantities operated in excess of 125% but upto 140% of the agreement quantity of the concerned item, shall be paid at 98% of the rate awarded for that item in that particular tender; (b)Quantities operated in excess of 140% but upto 150% of the agreement quantity of the concerned item shall be paid at 96% of the rate awarded for that item in that particular tender; (c)Variation in quantities of individual items beyond 150% will be avoided and would be permitted only in exceptional unavoidable circumstances and shall be paid at 96% of the rate awarded for that item in that particular tender</p>	No	No	Not Allowed
14	<p>(d)Variation to quantities of Minor Value Item: The limit for varying quantities for minor value items shall be 100% (as against 25% prescribed for other items). A minor value item for this purpose is defined as an item whose original agreement value is less than 1 % of the total original agreement value. d.(i) Quantities operated upto and including 100% of the agreement quantity of the concerned minor value item, shall be paid at the rate awarded for that item in that particular tender; d.(ii)Quantities operated in excess of 100% but upto 200% of the agreement quantity of the concerned minor value item, shall be paid at 98% of the rate awarded for that item in that particular tender; d.(iii) Variation in quantities of individual minor value item beyond 200% will be avoided and would be permitted only in exceptional unavoidable circumstances and shall be paid at 96% of the rate awarded for that item in that particular tender.</p>	No	No	Not Allowed
15	<p>(iv) In case of earthwork, the variation limit of 25% shall apply to the gross quantity of earthwork items and variation in the quantities of individual classifications of soil shall not be subject to this limit. (v) As far as Standard Schedule of Rates (SSOR) items are concerned, the variation limit of 25% would apply to the value of SSOR schedule(s) as a whole and not on individual SSOR items. However, in case of Non Standard Schedule of Rates (SSOR) items, the limit of 25% would apply on the individual items irrespective of the manner of quoting the rate (single percentage rate or individual item rate).</p>	No	No	Not Allowed
16	<p>General Conditions of Contract 2022 shall be applicable for all the tenders and contracts of railways for execution of works as defined in GFR 2017.</p>	No	No	Not Allowed

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17	Order of Precedence of Documents: In a tender/contract, in case of any difference, contradiction, discrepancy, with regard to conditions of tender/contract, specifications, drawings, bill of quantities etc., forming part of the tender/contract, the following shall be the order of precedence: i.Letter of Award ii.Schedule of Items, Rates & Quantities iii.Special Conditions of Contract iv.Technical Specifications as given in tender documents v.Drawings vi.Indian Railways Standard General Conditions of Contract updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents. vii.CPWD Specifications 2019 Vol I & II updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents, if applicable in the contract. viii.Indian Railways Unified Standard Specification (IRUSS-2019) updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents, if applicable in the contract. ix.Indian Railways Unified Standard Specifications (Works and Material) 2010 updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents, if applicable in the contract. x.IR Specifications/Guidelines updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents. xi. Relevant B.I.S. Codes updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents.	No	No	Not Allowed
18	Right of Railway to Deal with Tenders: The Railway reserves the right of not to invite tenders for any of Railway work or works or to invite open or limited tenders and when tenders are called to accept a tender in whole or in part or reject any tender or all tenders without assigning reasons for any such action. In case if tender is accepted in part by Railway administration, Letter of Acceptance shall be issued as counter offer to the Tenderer, which shall be subject to acceptance by the Tenderer	No	No	Not Allowed
19	Date of inviting tender shall be the date of publishing tender notice on IREPS website if tender is published on website or the date of publication in newspaper in case tender is not published on website.	No	No	Not Allowed
20	Omissions & Discrepancies: Should a tenderer find discrepancies in or omissions from the drawings or any of the Tender Forms or should he be in doubt as to their meaning, he should at once notify the authority inviting tenders. The tender inviting authority may, if deemed necessary, clarify the same to all tenderers. It shall be understood that every endeavour has been made to avoid any error which can materially affect the basis of tender and successful tenderer shall take upon himself and provide for the risk of any error which may subsequently be discovered and shall make no subsequent claim on account thereof.	No	No	Not Allowed
21	Provisions of Contract Labour (Regulation and Abolition) Act, 1970, Provisions of Employees Provident Fund and Miscellaneous Provisions Act, 1952, Provisions of "The Building and Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996" and "The Building and Other Construction Workers' Welfare Cess Act, 1996", shall be binding to the tenderer.	No	No	Not Allowed
22	Restrictions on the Employment of Retired Engineers of Railway Services Within One Year of their Retirement: The Contractor shall not, if he is a retired Government Engineer of Gazetted rank, himself engage in or employ or associate a retired Government Engineer of Gazetted rank, who has not completed one year from the date of retirement, in connection with this contract in any manner whatsoever without obtaining prior permission of the President and if the Contractor is found to have contravened this provision it will constitute a breach of contract and administration will be entitled to terminate the contract and forfeit his Performance Guarantee as well as Security Deposit	No	No	Not Allowed

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23	<p>Care in Submission of Tenders: (a) (i)Before submitting a tender, the tenderer will be deemed to have satisfied himself by actual inspection of the site and locality of the works, that all conditions liable to be encountered during the execution of the works are taken into account and that the rates he enters in the tender forms are adequate and all inclusive to accord with the provisions in Clause-37 of the Standard General Conditions of Contract for the completion of works to the entire satisfaction of the Engineer. (a)(ii)Tenderers will examine the various provisions of The Central Goods and Services Tax Act, 2017(CGST)/ Integrated Goods and Services Tax Act, 2017(IGST)/ Union Territory Goods and Services Tax Act, 2017(UTGST)/ respective state's State Goods and Services Tax Act (SGST) also, as notified by Central/State Govt.& as amended from time to time and applicable taxes before bidding. Tenderers will ensure that full benefit of Input Tax Credit (ITC) likely to be availed by them is duly considered while quoting rates. (a)(iii)The successful tenderer who is liable to be registered under CGST/IGST/UTGST/SGST Act shall submit GSTIN along with other details required under CGST/IGST/UTGST/SGST Act to railway immediately after the award of contract, without which no payment shall be released to the Contractor. The Contractor shall be responsible for deposition of applicable GST to the concerned authority. (a)(iv)Incase the successful tenderer is not liable to be registered under CGST/IGST/UTGST/SGST Act, the railway shall deduct the applicable GST from his/their bills under reverse charge mechanism (RCM) and deposit the same to the concerned authority. (b)When work is tendered for by a firm or company, the tender shall be signed by the individual legally authorized to enter into commitments on their behalf. (c)The Railway will not be bound by any power of attorney granted by the tenderer or by changes in the composition of the firm made subsequent to the execution of the contract. It may, however, recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the Contractor.</p>	No	No	Not Allowed
24	<p>Execution of Contract Document: The Tenderer whose tender is accepted shall be required to appear in person at the office of General Manager/General Manager (Construction), Chief Administrative Officer (Construction), Divisional Railway Manager or concerned Engineer, as the case may be, or if tenderer is a firm or corporation, a duly authorized representative shall appear (there would be no need for appear in person if agreement is signed digitally) and execute the contract agreement within seven days of notice from Railways that the Contract Agreement is ready. Failure to do so shall constitute a breach of the agreement affected by the acceptance of the tender. The Contract Agreement shall be entered into by Railway only after submission of valid Performance Guarantee by the Contractor. In such cases the Railway may determine that such tenderer has abandoned the contract and there upon his tender and acceptance thereof shall be treated as cancelled and the Railway shall be entitled to forfeit the full amount of the Bid Security and other dues payable to the Contractor under this contract. The failed Contractor shall be debarred from participating in the re-tender for that work.</p>	No	No	Not Allowed

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25	<p>18. Participation of Partnership Firms in works tenders: 18.1 The Partnership Firms participating in the tender should be legally valid under the provisions of the Indian Partnership Act. 18.2 The partnership firm should have been in existence or should have been formed prior to submission of tender. Partnership firm should have either been registered with the Registrar or the partnership deed should have been notarized as per the Indian Partnership Act, prior to submission of tender. 18.3 Separate identity / name should be given to the partnership firm. The partnership firm should have PAN / TAN number in its own name and PAN / TAN number in the name of any of the constituent partners shall not be considered. The valid constituents of the firm shall be called partners. 18.4 Once the tender has been submitted, the constitution of the firm shall not normally be allowed to be modified / altered / terminated during the validity of the tender as well as the currency of the contract except when modification becomes inevitable due to succession laws etc., in which case prior permission should be taken from Railway and in any case the minimum eligibility criteria should not get vitiated. The re-constitution of firm in such cases should be followed by a notary certified Supplementary Deed. The approval for change of constitution of the firm, in any case, shall be at the sole discretion of the Railways and the tenderer shall have no claims what-so-ever. Any change in the constitution of Partnership firm after submission of tender shall be with the consent of all partners and with the signatures of all partners as that in the Partnership Deed. Failure to observe this requirement shall render the offer invalid and full Bid Security shall be forfeited. If any Partner/s withdraws from the firm after submission of the tender and before the award of the contract, the offer shall be rejected and Bid Security of the tenderer will be forfeited. If any new partner joins the firm after submission of tender but prior to award of contract, his / her credentials shall not qualify for consideration towards eligibility criteria either individually or in proportion to his share in the previous firm. In case the tenderer fails to inform Railway beforehand about any such changes / modification in the constitution which is inevitable due to succession laws etc. and the contract is awarded to such firm, then it will be considered a breach of the contract conditions liable for determination of the contract under Clause 62 of the Standard General Conditions of Contract.</p>	No	No	Not Allowed
26	<p>5 A partner of the firm shall not be permitted to participate either in his individual capacity or as a partner of any other firm in the same tender. 6 The tender form shall be submitted only in the name of partnership firm. The Bid Security shall be submitted by partnership firm. The Bid Security submitted in the name of any individual partner or in the name of authorized partner (s) shall not be considered. 7 On issue of Letter of Acceptance (LOA) to the partnership firm, all the guarantees like Performance Guarantee, Guarantee for various Advances to the Contractor shall be submitted only in the name of the partnership firm and no splitting of guarantees among the partners shall be acceptable. 8 On issue of Letter of Acceptance (LOA), contract agreement with partnership firm shall be executed in the name of the firm only and not in the name of any individual partner. 9 In case the Letter of Acceptance (LOA) is issued to a partnership firm, the following undertakings shall be furnished by all the partners through a notarized affidavit, before signing of contract agreement. (a) Joint and several liabilities: The partners of the firm to which the Letter of Acceptance (LOA) is issued, shall be jointly and severally liable to the Railway for execution of the contract in accordance with General and Special Conditions of the Contract. The partners shall also be liable jointly and severally for the loss, damages caused to the Railway during the course of execution of the contract or due to nonexecution of the contract or part thereof. (b) Duration of the partnership deed and partnership firm agreement: The partnership deed/partnership firm agreement shall normally not be modified/altered/ terminated during the currency of contract and the maintenance period after the work is completed as contemplated in the conditions of the contract. Any change carried out by partners in the constitution of the firm without permission of Railway, shall constitute a breach of the contract, liable for determination of the contract under Clause 62 of the Standard General Conditions of Contract. (c) Governing laws: The partnership firm agreement shall in all respect be governed by and interpreted in accordance with the Indian laws. (d) No partner of the firm shall have the right to assign or transfer the interest right or liability in the contract without the written consent of the other partner/s and that of the Railway.</p>	No	No	Not Allowed

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27	Base Month: The Base Month for 'Price Variation Clause' shall be taken as the one month prior to closing of tender, unless otherwise stated elsewhere. The quarter for applicability of PVC shall commence from the month following the Base month. The Price Variation shall be based on the average Price Index of the quarter under consideration.	No	No	Not Allowed
28	Provided that if the Contractor commences work or incurs any expenditure in regard thereto before the rates as determined and agreed upon as lastly hereuntofore-mentioned, then and in such a case the Contractor shall only be entitled to be paid in respect of the work carried out or expenditure incurred by him prior to the date of determination of the rates as aforesaid according to the rates as shall be fixed by the Engineer. However, if the Contractor is not satisfied with the decision of the Engineer in this respect, he may appeal to the Chief Engineer within 30 days of getting the decision of the Engineer, supported by analysis of the rates claimed. The Chief Engineer's decision after hearing both the parties in the matter would be final and binding on the Contractor and the Railway.	No	No	Not Allowed
29	Multiple L-1 :- In case of more than one L-1 bidders, tender may be awarded to tenderer having higher Bid Capacity. In case Bid Capacity is also the same, tenderer having done more value of similar work in last three previous financial years and the current financial year upto the date of opening of the tender, may be selected for the award. Instructions with respect to Bid Capacity will follow. (Railway Board Letter No.2017/Trans/01/Policy New Delhi, dated. 08.02.2018)	No	No	Not Allowed
30	For settlements of disputes, Arbitration and Conciliation Act 1996 and provision made in relevant clauses of GCC 2022 with up-to-date correction slip will be binding.	No	No	Not Allowed
31	Provisions of Contract Labour (Regulation and Abolition) Act, 1970, Provisions of Employees Provident Fund and Miscellaneous Provisions Act, 1952, Provisions of "The Building and Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996" and "The Building and Other Construction Workers' Welfare Cess Act, 1996", shall be binding to the tenderer	No	No	Not Allowed
32	Price Variation Clause (PVC) shall be applicable only in tender having advertised value above Rs. 2 Crores. Provided further that, in a contract where PVC is applicable, following shall be outside the purview of price adjustments (i.e. shall be excluded from the gross value of the work for the purpose of price variation) : a) Materials supplied by Railway to the Contractors, either free or at fixed rate; b) Any extra item(s) included in subsequent variation falling outside the purview of the Bill(s) of Quantities of tender, under clause 39. (1) (b) of these Standard General Conditions, unless applicability of PVC and 'Base Month' has been specially agreed, while fixing the rates of such extra item(s).	No	No	Not Allowed

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33	<p>Rates for Extra Item(s) of Works: (a) Standard Schedule of Rates (SSOR) Items: Any item of work carried out by the Contractor on the instructions of the Engineer which is not included in the accepted Bill(s) of Quantities but figures in the Standard Schedule of Rates (SSOR), shall be executed at the rates set forth in the "Standard Schedule of Rates (SSOR)" modified by the tender percentage as accepted in the contract for that chapter of Standard Schedule of Rates (SSOR). For item(s) not covered in this sub clause, the rate shall be decided as agreed upon between the Engineer and the Contractor before the execution of such items of work as per sub clause (b). (b) Other Items: For any item of work to be carried out by the Contractor but not included in the accepted Bill(s) of Quantities and also not covered under sub clause (a) above, the Contractor shall be bound to notify the Engineer at least seven days before the necessity arises for the execution of such items of works that the accepted Bill(s) of Quantities does not include rate or rates for such extra work involved. The rates payable for such items shall be decided at the meeting to be held between the Engineer and Contractor, in as short a period as possible after the need for the special item has come to the notice. In case the Contractor fails to attend the meeting after being notified to do so or in the event of no settlement being arrived at, the Railway shall be entitled to execute the extra works by other means and the Contractor shall have no claim for loss or damage that may result from such procedure. The assessment of rates for extra item(s) shall be arrived at based on the prevailing market rates of labour, machinery & materials and by taking guidance from the following documents in order of priority: i. Analysis of Rates for "Delhi Schedule of Rates issued by CPWD (DSR)" (ii) Analysis of Rates for "Unified Standard Schedule of Rates of Indian Railways (USSOR)" iii. Market Analysis</p>	No	No	Not Allowed
34	<p>Participation of Joint Venture (JV) in Works Tender: This para shall be applicable for works tenders wherein tender documents provide for the same. 1.1 Separate identity/name shall be given to the Joint Venture. 1.2 Number of members in a JV shall not be more than three, if the work involves only one department (say Civil or S&T or Electrical or Mechanical) and shall not be more than five, if the work involves more than one Department. One of the members of the JV shall be its Lead Member who shall have a majority (at least 51%) share of interest in the JV. The other members shall have a share of not less than 20% each in case of JV with upto three members and not less than 10% each in case of JV with more than three members. In case of JV with foreign member(s), the Lead Member has to be an Indian firm/company with a minimum share of 51%. 1.3 A member of JV shall not be permitted to participate either in individual capacity or as a member of another JV in the same tender. 1.4 The tender form shall be purchased and submitted only in the name of the JV and not in the name of any constituent member. The tender form can however be submitted by JV or any of its constituent member or any person authorized by JV through Power of Attorney to submit tender. 1.5 Bid Security shall be submitted by JV or authorized person of JV either as : (i) Cash through e-payment gateway or as mentioned in tender document, or (ii) Bank Guarantee bond either in the name of JV, or in the name of all members of JV as per MOU irrespective of their share in the JV if the JV has not been constituted legally till the date of submission of tender. 1.6 A copy of Memorandum of Understanding (MoU) duly executed by the JV members on a stamp paper, shall be submitted by the JV alongwith the tender. The complete details of the members of the JV, their share and responsibility in the JV etc. particularly with reference to financial, technical and other obligations shall be furnished in the MoU. 1.7 Once the tender is submitted, the MoU shall not normally be modified / altered / terminated during the validity of the tender. In case the tenderer fails to observe/comply with this stipulation, the full Bid Security shall be liable to be forfeited. 1.8 Approval for change of constitution of JV shall be at the sole discretion of the Railway. The constitution of the JV shall not normally be allowed to be modified after submission of the bid by the JV, except when modification becomes inevitable due to succession laws etc., provided further that there is no change in qualification of minimum eligibility criteria by JV after change of composition. However, the Lead Member shall continue to be the Lead Member of the JV. Failure to observe this requirement would render the offer invalid.</p>	No	No	Not Allowed

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35	<p>1.9 Similarly, after the contract is awarded, the constitution of JV shall not be normally allowed to be altered during the currency of contract except when modification become inevitable due to succession laws etc. and minimum eligibility criteria should not get vitiated. Failure to observe this stipulation shall be deemed to be breach of contract with all consequential penal action as per contract conditions. 1.10 On award of contract to a JV, a single Performance Guarantee shall be submitted by the JV as per tender conditions. All the Guarantees like Performance Guarantee, Bank Guarantee for Mobilization Advance, Machinery Advance etc. shall be accepted only in the name of the JV and no splitting of guarantees amongst the members of the JV shall be permitted.</p>	No	No	Not Allowed
36	<p>1. On issue of LOA (Letter of Acceptance), the JV entity to whom the work has been awarded, with the same shareholding pattern as was declared in the MOU/JV Agreement submitted alongwith the tender, shall be got registered before the Registrar of the Companies under 'The Companies Act - 2013' (in case JV entity is to be registered as Company) or before the Registrar/Sub-Registrar under the 'The Indian Partnership Act, 1932' (in case JV entity is to be registered as Partnership Firm) or under 'The LLP Act 2008' (in case JV entity is to be registered as LLP). A separate PAN shall be obtained for this entity. The documents pertaining to this entity including its PAN shall be furnished to the Railways before signing the contract agreement for the work. In case the tenderer fails to observe/comply with this stipulation within 60 days of issue of LOA, contract is liable to be terminated. In case contract is terminated railway shall be entitled to forfeit the full amount of the Bid Security and other dues payable to the Contractor under this contract. The entity so registered, in the registered documents, shall have, inter-alia, following Clauses: 1.1 Joint and Several Liability - Members of the entity to which the contract is awarded, shall be jointly and severally liable to the Railway for execution of the project in accordance with General and Special Conditions of Contract. The members of the entity shall also be liable jointly and severally for the loss, damages caused to the Railways during the course of execution of the contract or due to non-execution of the contract or part thereof. 1.2 Duration of the Registered Entity - It shall be valid during the entire currency of the contract including the period of extension, if any and the maintenance period after the work is completed. 1.3 Governing Laws - The Registered Entity shall in all respect be governed by and interpreted in accordance with Indian Laws.</p>	No	No	Not Allowed
37	<p>1.12 Authorized Member - Joint Venture members in the JV MoU shall authorize one of the members on behalf of the Joint Venture to deal with the tender, sign the agreement or enter into contract in respect of the said tender, to receive payment, to witness joint measurement of work done, to sign measurement books and similar such action in respect of the said tender/contract. All notices/correspondences with respect to the contract would be sent only to this authorized member of the JV. 1.13 No member of the Joint Venture shall have the right to assign or transfer the interest right or liability in the contract without the written consent of the other members and that of the Railway in respect of the said tender/contract.</p>	No	No	Not Allowed

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38	<p>1.14 Documents to be enclosed by the JV alongwith the tender: 17.14.1 In case one or more of the members of the JV is/are partnership firm(s), following documents shall be submitted: (i) A notarized copy of the Partnership Deed or a copy of the Partnership deed registered with the Registrar. (ii) A copy of consent of all the partners or individual authorized by partnership firm, to enter into the Joint Venture Agreement on a stamp paper, (iii) A notarized or registered copy of Power of Attorney in favour of the individual to sign the MOU/JV Agreement on behalf of the partnership firm and create liability against the firm. GCC April 2022 23 (iv) An undertaking by all partners of the partnership firm that they are not blacklisted or debarred by Railways or any other Ministry / Department of the Govt. of India from participation in tenders / contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP in which they were / are partners/members. Any Concealment / wrong information in regard to above shall make the bid ineligible or the contract shall be determined under Clause 62 of the Standard General Conditions of Contract. 17.14.2 In case one or more members is/are Proprietary Firm or HUF, the following documents shall be enclosed: (i) A copy of notarized affidavit on Stamp Paper declaring that his Concern is a proprietary Concern and he is sole proprietor of the Concern OR he who is signing the affidavit on behalf of HUF is in the position of 'Karta' of Hindu Undivided Family (HUF) and he has the authority, power and consent given by other members to act on behalf of HUF. 17.14.3 In case one or more members of the JV is/are companies, the following documents shall be submitted: (i) A copy of resolutions of the Directors of the Company, permitting the company to enter into a JV agreement, (ii) The copies of MOA (Memorandum of Association) / AOA (Articles of Association) of the company (iii) A copy of Certificate of Incorporation (iv) A copy of Authorization/copy of Power of Attorney issued by the Company (backed by the resolution of Board of Directors) in favour of the individual, to sign the tender, sign MOU/JV Agreement on behalf of the company and create liability against the company 17.14.4 In case one or more members of the JV is/are LLP firm/s, the following documents shall be submitted: (i) A copy of LLP Agreement (ii) A copy of Certificate of Incorporation of LLP (iii) A copy of resolution passed by partners of LLP firm, permitting the Firm to enter into a JV agreement (iv) A copy of Authorization /copy of Power of Attorney issued by the LLP firm (backed by resolution passed by the Partners) in favour of the individual, to sign the tender and/or sign the MOU/ JV agreement on behalf of the LLP and create liability against the LLP. (v) An undertaking by all partners of the LLP that they are not blacklisted or debarred by Railways or any other Ministry / Department of the Govt. of India from participation in tenders / contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP or JV in which they were / are partners/members. Any Concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the Standard General Conditions of Contract.</p>	No	No	Not Allowed
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39	<p>14.5 In case one or more members of the JV is/are Society/s or Trust/s, the following documents shall be submitted: (i) A copy of Certificate of Registration (ii) A copy of Memorandum of Association of Society/Trust Deed (iii) A copy of Rules & Regulations of the Society (iv) A copy of Power of Attorney, in favour of the individual to sign the tender documents and create liability against the Society/Trust. 17.15 Credentials & Qualifying Criteria: Technical, financial eligibility and Bid capacity of the JV shall be adjudged based on satisfactory fulfillment of the following criteria: 17.15.1 Technical Eligibility Criteria ('a' or 'b' mentioned hereunder): (a) For Works without composite components The technical eligibility for the work as per para 10.1 of GCC 2022, shall be satisfied by either the 'JV in its own name & style' or 'Lead member of the JV'. Each other (non-lead) member(s) of JV, who is/ are not satisfying the technical eligibility for the work as per para 10.1 of GCC 2022, shall have technical capacity of minimum 10% of the cost of work i.e., each non-lead member of JV member must have satisfactorily completed or substantially completed during the last 07 (seven) years, ending last day of month previous to the one in which tender is invited, one similar single work for a minimum of 10% of advertised value of the tender. (b) For works with composite components The technical eligibility for major component of work as per para 10.1 of GCC 2022, shall be satisfied by either the 'JV in its own name & style' or 'Lead member of the JV' and technical eligibility for other component(s) of work as per para 10.1 of GCC 2022, shall be satisfied by either the 'JV in its own name & style' or 'any member of the JV'. Each other (non-lead)member(s) of JV, who is/ are not satisfying the technical eligibility for any component of the work as per para 10.1 of GCC 2022, shall have technical capacity of minimum 10% of the cost of any component of work mentioned in technical eligibility criteria. i.e., each other (nonlead) member of must have satisfactorily completed or substantially completed during the last 07 (seven) years, ending last day of month previous to the one in which tender is invited, one similar single work for a minimum of 10% of cost of any component of work mentioned in technical eligibility criteria. Note for Para 17.15.1: a) The Major component of the work for this purpose shall be the component of work having highest value. In cases where value of two or more component of work is same, any one work can be classified as Major component of work. b) Value of a completed work done by a Member in an earlier JV shall be reckoned only to the extent of the concerned member's share in that JV for the purpose of satisfying his/her compliance to the above mentioned technical eligibility criteria in the tender under consideration. .</p>	No	No	Not Allowed
40	<p>Financial Eligibility Criteria The JV shall satisfy the requirement of "Financial Eligibility" mentioned in standard financial criteria above. "financial capacity" of the lead member of JV shall not be less than 51% of the financial eligibility criteria mentioned above. The arithmetic sum of individual "financial capacity" of all the members shall be taken as JV's "financial capacity" to satisfy this requirement. Note: Contractual payment received by a Member in an earlier JV shall be reckoned only to the extent of the concerned member's share in that JV for the purpose of satisfying compliance of the above mentioned financial eligibility criteria in the tender under consideration.</p>	No	No	Not Allowed

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41	<p>Technical Eligibility Criteria ('a' or 'b' mentioned hereunder): (a) For Works without composite components The technical eligibility for the work as per para 10.1 of GCC 2022, shall be satisfied by either the 'JV in its own name & style' or 'Lead member of the JV'. Each other (non-lead) member(s) of JV, who is/ are not satisfying the technical eligibility for the work as per para 10.1 of GCC 2022, shall have technical capacity of minimum 10% of the cost of work i.e., each non-lead member of JV member must have satisfactorily completed or substantially completed during the last 07 (seven) years, ending last day of month previous to the one in which tender is invited, one similar single work for a minimum of 10% of advertised value of the tender. (b) For works with composite components The technical eligibility for major component of work as per para 10.1 of GCC 2022, shall be satisfied by either the 'JV in its own name & style' or 'Lead member of the JV' and technical eligibility for other component(s) of work as per para 10.1 of GCC 2022, shall be satisfied by either the 'JV in its own name & style' or 'any member of the JV'. Each other (non-lead)member(s) of JV, who is/ are not satisfying the technical eligibility for any component of the work as per para 10.1 of GCC 2022, shall have technical capacity of minimum 10% of the cost of any component of work mentioned in technical eligibility criteria. i.e., each other (nonlead) member of must have satisfactorily completed or substantially completed during the last 07 (seven) years, ending last day of month previous to the one in which tender is invited, one similar single work for a minimum of 10% of cost of any component of work mentioned in technical eligibility criteria. Note for Para 17.15.1: a) The Major component of the work for this purpose shall be the component of work having highest value. In cases where value of two or more component of work is same, any one work can be classified as Major component of work. b) Value of a completed work done by a Member in an earlier JV shall be reckoned only to the extent of the concerned member's share in that JV for the purpose of satisfying his/her compliance to the above mentioned technical eligibility criteria in the tender under consideration. .</p>	No	No	Not Allowed
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Special Conditions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	IS-456-2000 Indian standard code of practice for plain and reinforced concrete,IS: 1199 Method of sampling and analysis of concrete,IS: 516 Method of test for strength of concrete,Standard Specification for structural steel/standard quality-Fifth revision,IS: 226 Specification for structural steel/Standard quality-Fifth revision,IS 2062-1984 Specifications for Weldable structural steel,IS: 383-1970 Code of practice for fine and coarse aggregate,IS: 800 Code of practice for use of structural steel in general building construction-revised 8th print April 1977 incorporating amendments No.1 and 2,IS:432-Pt. I-Code of practice for mild steel and medium tensile steel bars,IS:1785-Plain and hard drawn steel wire for pre stressed concrete/latest addition,IS:1786 Code of practice for high strength deformed steel bars and wires for concrete reinforcement,IS:269 for ordinary Portland cement,IS:8112/IS:12269 High strength OPC 43 and 53 grade respectively	No	No	Not Allowed
2	Reinforcement: Reinforcement Steel to be used in the work shall be of high yield strength deformed bars cold twisted or hot rolled or re-bars or TMT produced from SAIL , TISCO , IISCO , RINL,JINDAL only. Reinforcement steel should confirm to IS: 1786 Testing of reinforcement steel shall be done for physical properties batch wise	No	No	Not Allowed
3	Cement: Only OPC and PPC shall be used for design mix concrete. Cement 53/43 Grade shall be confirmed to IS-12269, IS: 8112 and PSC as per IS 455 respectively. Cement testing shall be done batch wise for physical properties. Cement should be supplied from reputed manufacturer i.e. ACC, Grasim, Ultratech, Ambuja, Lafarge, JAYPEE,Konark cement conforming to relevant IS code as per directed by site Engineer. Other brand of OPC such as Bharat Cement Brand and Nuvoco Cement Brand conforming to relevant IS code as per directed by site Engineer.	No	No	Not Allowed
4	Work in all stations will be executed simultaneously with separate plant and machinery and manpower No extra payment will be made for the same.	No	No	Not Allowed
5	An appropriate site office for Railway officials who will supervise/inspect the work in progress as and when necessary with adequate furniture and fixtures. No extra payment will be made in this regard.	No	No	Not Allowed

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6	An advance configuration computer with internet facility along with printer and an AUTOCAD operator will be provided by contractor till the completion of the work. No extra payment will be made in this regard.	No	No	Not Allowed
7	The agency has to provide one no. light road vehicle for inspecting official and other officials/site engineer to attend the work site and back as and when required to accelerate and smoothen the day to day progress of work during the currency of contract. If agency fails to provide the vehicle a sum of Rupees equivalent to market rate per month to be deducted from their bills.	No	No	Not Allowed
8	tenderer has to start the work in separate station simultaneously with separate man power and plant and machinery and no extra payment will be made for the same..	No	No	Not Allowed
9	The quoted rate should include all the prevailing taxes and levies including GST.	No	No	Not Allowed
10	Termination of Contract-effect of non performance by the Contractor within the validity- In normal circumstances, the Contractor has to seek extension of time of completion of Contract and Railway may extend considering the merit and relevant clause of GCC 2022. However, in the event the contractor has not sought for extension and the Railway has not taken necessary action for terminating the same within the validity period (Such a situation should be rare and the reasons for this to be recorded), a notice claiming damages also for the failure on the part of the Contractor should be issued to the Contractor who has not sought/is willing to seek extension even after the expiry of the date of completion, and the Contract has ceased to exist with effect from the date of expiry, original or extended as the case may be.	No	No	Not Allowed
11	Unless specifically mentioned in the schedule of rates all materials required for execution of work will be supplied by the contractor free of cost as per standard specifications and approved by the Engineer-in-charge.	No	No	Not Allowed
12	All works are to be done as per programme fixed by the Engineer-in-charge or his authorised representative and as per their direction only.	No	No	Not Allowed
13	All materials to be supplied by the contractor should be got approved by the Engineer-in-charge before use in the work.	No	No	Not Allowed
14	All the scrap and released materials to be returned to the Railway as per instructions given by the Engineer in - charge or his authorized representative at their nominated places after completion of the work.	No	No	Not Allowed
15	No compensation towards any accident what s o ever will be paid by the Railway.	No	No	Not Allowed
16	The Railway will not be responsible for compensation towards contractors idle labour in case traffic block cannot be arranged to the contractor as per programme due to unforeseen reasons.	No	No	Not Allowed
17	Contractor shall not start any work without the presence of the IOW or PWI at site. In case the contractors representative starts any work in absence of IOW or PWI, it shall be treated as unauthorised and illegal tampering with the track and shall be liable for action.	No	No	Not Allowed
18	In case contractor fails to return the unused and excess materials issued to them and released materials, the cost of such materials will be deducted from the contractors dues at the rate of 2xPurchase cost 5 percent freight.Purchase cost for released materials should be taken as prevailing market rate.	No	No	Not Allowed
19	All the works which are to be done under traffic block, in electrified territory, contractor will have to take all precautions for safety of track and running trains as well as safety of his labour in terms of Indian Railways P.Way manual.	No	No	Not Allowed
20	The Contractor with the help of his Engineer or Diploma holder , as the case be , shall make necessary Drawings, sketches, plotting, peg markings etc. as desired by the Engineer-in-charge. No extra cost shall be claimed on this account.	No	No	Not Allowed

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21	In case damage is caused to OFC/Quad cable/signalling cable during execution of the work, the contractor is liable to pay a penalty for damaging the cable. Penalty shall not be levied in case of the following: (i) Detailed cable route plan not provided by concerned department or cable is not protected as per laid down procedures. (ii) The alignment of the cable does not tally with the information provided to the contractor (iii) The cable depth is found to be less than 800 mm from normal ground level. (iv) No representative of S&T department/Rail Tel was available at site guarding the cables on the fixed pre determined date and time. Penalty to be imposed for damages to cable shall be as under: (a) Only Quad cable or Signalling cable ----- Rs. 1.0 Lakh per location (b) Only OFC ----- Rs. 1.25 Lakh per location (c) Both OFC & Quad ----- Rs. 1.5 Lakh per location (d) Electrical Cable ----- Rs. 1.0 Lakh per location (Copy of JPO is also attached in Documents Tab which is binding and should be followed in spirit)	No	No	Not Allowed
22	The work will be executed under supervision of Railway Engineer- in charge or his authorized representative at site.	No	No	Not Allowed
23	The agency should depute a trained and certified supervisor duly certified by AEN.	No	No	Not Allowed
24	The Contractor should be make available all the necessary tools, plants and equipment for execution of the above work at site during execution of work.	No	No	Not Allowed
25	The vehicles and equipment of contractors can be drafted by Railway Administration in case of Accidents or Natural calamities involving human lives, and payment in respect of that would be made by operating the item as a non scheduled item.	No	No	Not Allowed
26	1. General conditions of contract 2022,CPWD Specifications 2019 Vol I & II, Indian Railways Unified Standard Specification (IRUSS-2019), updated with correction slips and Indian Railway Unified Standard Specifications Works Materials ,Indian Railways Unified Standard Specifications (Works and Material) 2010, IR Specifications/Guidelines, Relevant B.I.S. Codes updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents, shall be binding to the instant tender as per the order of precedence defined in Para 1.01, Part-I of GCC 2022. 2. The work should be executed in the workmen like manner to the satisfaction of the Engineer-in-charge. The contractor will be primarily responsible for the safety of traffic that moved on the opened up track not without the presence of the Railway supervisory staff at site. In the event of any accident at the work spot, a departmental enquiry will be held by the Railway. If it is established that accident occurred wholly or partially due to any act tantamount into negligence on the part of the contractor he shall be render him liable for all damages and also legal prosecution if loss of life is involved. 3. The responsibility of safe running of track at work site rests entirely with all departmental supervisory staff. No contractor should be permitted to carry out any activity affecting the safety of track without presence of an Engg. supervisory staff of appropriate level. No work should be executed by the contractor without authorization being available. 4. The agency should depute a trained and certified supervisor duly certified by AEN.	No	No	Not Allowed
27	The presence of contractors operators or supervisor at each work site, P.Way or Civil Or Bridge, is must for proper supervision of work. It is advisable to depute Railways retired P.Way superisory staff or works supervisory staff or bridge supervisory staff as the case may be for this purpose, who are already trained in such works. However, if the contractor intends to engage any supervisor from outside for P.way work he must get trained in the Divisional Training school of the Division, for which the contractor has to pay the charges as per the rate decided by railway board time to time. After successfull completion of the training, a certificate of competency shall be issued by the Divisional Training school at the mimimum level of AEN.Only such outside operators or supervisors of contractor who have been trained in the Division Training school and possess a competency certificate, shall be permitted to supervise the work at the work site. Retired supervisors of Railway need not required to be trained. Similarly for any Civil or Bridge work which has the potential to cause unsafe condition for moving traffic, if any outside supervisor is engaged by the contractor, he shall be got trained in similar manner for such Civil or Bridge work in the Divisional Training School and obtain a competency certificate before he is permtted to supervise the work at work site.	No	No	Not Allowed

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28	For works of public nature contractor shall fix an information board containing information related to work order at prominent place free of cost. The content of such board, its fixing location, size and type of material etc. shall be as approved by Engineer- in Charge. The board shall be maintained by contractor during the currency of work order. If contractor fail to fix the information board for nominated work orders, a token penalty as deemed suitable as per GCC may be imposed by Enginner in charge.	No	No	Not Allowed
29	Unless otherwise specified in the schedule of items, the rate quoted by the tenderer includes:- a. All labour, tools, plant, equipment and machinery etc. b. All lead, lift, ascent, descent, jungle clearance and making approach roads etc. c. Loading, unloading, handling, re-handling and transportation of Railway materials from Railway depot to site of work and vice-a-versa. d.All royalty, octroi and other necessary taxes on materials and products.	No	No	Not Allowed
30	Tenderer or contractor will have to execute the work taking necessary precautions for safety of works,Passenger,traffic etc.	No	No	Not Allowed
31	Codes: The following Codes of Practice latest revised with up to date corrections shall be followed:	No	No	Not Allowed
31.1	Wherever any reference to Code, Specifications etc., is made in this tender document, it shall be taken as a reference to the latest version thereof including all amendments and corrections etc. However, where these specifications do not cover full details relevant Indian Standard Specification shall be followed. Decision of the Chief Engineer shall be final in this regard.	No	No	Not Allowed
32	The quantities specified in the tender schedule are only approximate and liable to vary.	No	No	Not Allowed
33	The items covered under USSOR-2010 and the items covered under section-Z of SOR-2001 are tentative and approximate and these are considered for evaluation of DV only. However the items covered under USSOR -2010 and under section-Z of SOR -2001 may be altered within the scope of work as per instruction of Engineer- in Charge according to site requirement if required. Decision of Engineer in Charge in this regard will be final and binding to all.	No	No	Not Allowed
34	Contractor shall not start any work without the presence of the IOW or PWI at site. In case the contractors representative starts any work in absence of IOW or PWI, it shall be treated as unauthorised and illegal tampering with the track and shall be liable for action.	No	No	Not Allowed
35	All the works which are to be done under traffic block, in electrified territory, contractor will have to take all precautions for safety of track and running trains as well as safety of his labour in terms of Indian Railways P.Way manual.	No	No	Not Allowed
36	For works of public nature contractor shall fix an information board containing information related to work order at prominent place free of cost. The content of such board, its fixing location, size and type of material etc. shall be as approved by Engineer- in Charge. The board shall be maintained by contractor during the currency of work order. If contractor fail to fix the information board for nominated work orders, a token penalty as deemed suitable as per GCC may be imposed by Enginner in charge.	No	No	Not Allowed
37	17. Unless specified otherwise, the rate accepted are inclusive of all lead, lift, loading, unloading,handling, sales tax and all other charges and taxes liveable by the Govt. from time to time. 18. In case of any accident, the contractor shall be liable to pay for the damages to the extent he is responsible on the basis of the report of enquiry committee. 19. Supply of materials should be well in advance from the date of execution of all works as per requirement given by AEN/IOW in-charge Railway in charge of work at site. 20. No payment will be made for wastage/surplus materials. 21. Schedule of dimension as specified in the drawing must be followed strictly any change should not be made without written permission of competent authority. 22. Contractor should take all precaution for safety of his/ their labour. The Railway will not entertain any claim towards accident whatsoever of the labour engaged by the contractor.	No	No	Not Allowed

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38	23 Note for cement:- i. Payment of cement will be made as per standard consumption according to S.E.Rly. Unified Standard Schedule of Rates Works Materials , 2010 or actual Consumption as per design mix. ii. Test certificate for cement used will be produced which should conform to IS specification and the same should be submitted by the contractor. iii. Cement to be supplied should not be more than two months old from the date of Manufacture. iv. The contractor must submit vouchers of purchase of cement and it should be purchased by contractor from authorized source only. v. The empty cement bag after consumption of cement, shall be deposited to the concerned IOW s stores failing which a flat penalty @Rs.3/- per bag shall be recovered from contractor s bills.	No	No	Not Allowed
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Technical-Compliances

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	List of Plant & Machinery available on hand and proposed to be inducted and hired for the tendered work.	No	No	Allowed (Optional)
2	The list of personnel / organization on hand and proposed to be engaged for the tendered work.	No	No	Allowed (Optional)
3	The tenderer whether sole proprietor / a company or a partnership firm / joint venture (JV) / registered society / registered trust / HUF / LLP etc if they want to act through agent or individual partner(s), should submit along with the tender, a copy of power of attorney duly stamped and authenticated by a Notary Public or by Magistrate in favour of the specific person whether he/they be partner(s) of the firm or any other person, specifically authorizing him/them to sign the tender, submit the tender and further to deal with the Tender/ Contract up to the stage of signing the agreement except in case where such specific person is authorized for above purposes through a provision made in the partnership deed / Memorandum of Understanding / Article of Association /Board resolution, failing which tender shall be summarily rejected. A separate power of attorney duly stamped and authenticated by a Notary Public or by Magistrate in favour of the specific person whether he/they be partner(s) of the firm or any other person, shall be submitted after award of work, specifically authorizing him/them to deal with all other contractual activities subsequent to signing of agreement, if required. Note: A Power of Attorney executed and issued overseas, the document will also have to be legalized by the Indian Embassy and notarized in the jurisdiction where the Power of Attorney is being issued. However, the Power of Attorney provided by Bidders from countries that have signed the Hague Legislation Convention 1961 are not required to be legalized by the Indian Embassy if it carries a conforming Appostille certificate. (Power of attorney to be submitted mandatorily if the condition is applicable)	No	No	Allowed (Optional)

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4	<p>Employment/Partnership etc. of Retired Railway Employees: (a) Should a tenderer i) be a retired Engineer of the gazetted rank or any other gazetted officer working before his retirement, whether in the executive or administrative capacity or whether holding a pensionable post or not, in the Engineering or any other department of any of the railways owned and administered by the President of India for the time being, OR ii) being partnership firm / joint venture (JV) / registered society / registered trust etc have as one of its partners/members a retired Engineer of the gazetted rank or any other gazetted officer working before his retirement, ORiii) being an incorporated company have any such retired Engineer of the gazetted rank or any other gazetted officer working before his retirement as one of its directorsAND in case where such Engineer or officer had not retired from government service at least 1 year prior to the date of submission of the tender THEN the tenderer will give full information as to the date of retirement of such Engineer or gazetted officer from the said service and as to whether permission for taking such contract, or if the Contractor be a partnership firm or an incorporated company, to become a partner or director as the case may be, has been obtained by the tenderer or the Engineer or officer, as the case may be from the President of India or any officer, duly authorized by him in this behalf, shall be clearly stated in writing at the time of submitting the tender. b) In case, upon successful award of contract, should a tenderer depute for execution of the works under or to deal matters related with this contract, any retired Engineer of gazetted rank or retired gazetted officer working before his retirement in the Engineering or any other department of any of the railways owned and administered by the President of India for the time being, and now in his employment, then the tenderer will ensure that retired Engineer or retired gazetted officer had retired from government service at least 1 year prior to the date of his employment with tenderer and in case he had retired from service within a year then he possesses the requisite permission from the President of India or any officer, duly authorized by him in this behalf, to get associated with the tenderer. c) Should a tenderer or Contractor being an individual, have member(s) of his family or in the case of partnership firm/company / joint venture (JV) / registered society / registered trust etc. one or more of his partner(s)/shareholder(s) or member(s) of the family of partner(s)/shareholder(s) having share of more than 1%in the tendering entity employed in gazetted capacity in the Engineering or any other department of the railway, then the tenderer at the time of submission of tender, will inform the authority inviting tenders the details of such persons. Note: -If information as required as per 16.a), b), c) above has not been furnished, contract is liable to be dealt in accordance with provision of clause 62 of the Standard General Condition of contract.</p>	No	No	Allowed (Optional)
5	<p>The tenderer should submit a copy of certificate 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 certificate to be submitted by the bidder is enclosed as Annexure-V of GCC 2022. Non submission of a copy of certificate by the bidder shall result in summarily rejection of his/their bid. It shall be mandatorily incumbent upon the tenderer to identify, state and submit the supporting documents duly self attested / digitally signed by which they/he are/is qualifying the Qualifying Criteria mentioned in the Tender Document.</p>	No	No	Allowed (Mandatory)
5.1	<p>In addition to annexure -V, In case of other than Company/Proprietary firm, Annexure-V(A) of GCC 2022 (GCC-2022 Correction Slip 2) shall also be submitted by the each member of a partnership Firm/Joint Venture (JV)/Hindu Undivided Family (HUF)/ Limited Liability Partnership (LLP) etc. as the case may be. Non submission of above certificate(s) by the bidder shall result in summarily rejection of his/their bid.</p>	No	No	Allowed (Mandatory)
6	<p>(i) The tenderer shall clearly specify whether the tender is submitted on his own (Proprietary Firm) or on behalf of a Partnership Firm / Company / Joint Venture (JV) / Registered Society / Registered Trust / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc. The tenderer(s) shall enclose the attested copies of the constitution of their concern, and copy of PAN Card along with their tender. Tender Documents in such cases are to be signed by such persons as may be legally competent to sign them on behalf of the firm, company, association, trust or society, as the case may be.</p>	No	No	Allowed (Optional)
7	<p>Sole Proprietorship Firm: (i) All documents in terms of Para 10 of the Tender Form (Second Sheet) of GCC 2022</p>	No	No	Allowed (Optional)

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8	The tenderer shall clearly specify that the tender is submitted on behalf of a partnership firm. The following documents shall be submitted by the partnership firm, with the tender: (i) A notarized copy of the Partnership Deed or a copy of the Partnership deed registered with the Registrar. (ii) A notarized or registered copy of Power of Attorney in favour of the individual to tender for the work, sign the agreement etc. and create liability against the firm. (iii) An undertaking by all partners of the partnership firm that they are not blacklisted or debarred by Railways or any other Ministry / Department of the Govt. of India from participation in tenders / contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP in which they were / are partners/members. Any Concealment / wrong information in regard to above shall make the bid ineligible or the contract shall be determined under Clause 62 of the Standard General Conditions of Contract. (iv) All other documents in terms of Para 10 of the Tender Form (Second Sheet) of GCC 2022.	No	No	Allowed (Optional)
9	HUF: (i) A copy of notarized affidavit on Stamp Paper declaring that he who is submitting the tender on behalf of HUF is in the position of 'Karta' of Hindu Undivided Family (HUF) and he has the authority, power and consent given by other members to act on behalf of HUF. (ii) All other documents in terms of Para 10 of the Tender Form (Second Sheet) of GCC 2022.	No	No	Allowed (Optional)
10	In case one or more members is/are Proprietary Firm or HUF, the following documents shall be enclosed: (i) A copy of notarized affidavit on Stamp Paper declaring that his Concern is a proprietary Concern and he is sole proprietor of the Concern OR he who is signing the affidavit on behalf of HUF is in the position of 'Karta' of Hindu Undivided Family (HUF) and he has the authority, power and consent given by other members to act on behalf of HUF.	No	No	Allowed (Optional)
11	Company registered under Companies Act 2013: ((i) The copies of MOA (Memorandum of Association) / AOA (Articles of Association) of the company (ii) A copy of Certificate of Incorporation (iii) A copy of Authorization/Power of Attorney issued by the Company (backed by the resolution of Board of Directors) in favour of the individual to sign the tender on behalf of the company and create liability against the company. (iv) All other documents in terms Para 10 of the Tender Form (Second Sheet) of GCC 2022.	No	No	Allowed (Optional)
12	LLP (Limited Liability Partnership): LLP (Limited Liability Partnership): (i) A copy of LLP Agreement (ii) A copy of Certificate of Incorporation (iii) A copy of Power of Attorney/Authorization issued by the LLP in favour of the individual to sign the tender on behalf of the LLP and create liability against the LLP. (iv) An undertaking by all partners of the LLP that they are not blacklisted or debarred by Railways or any other Ministry / Department of the Govt. of India from participation in tenders / contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP or JV in which they were / are partners/members. Concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the Standard General Conditions of Contract. (v) All other documents in terms of Para 10 of the Tender Form (Second Sheet) of GCC 2022.	No	No	Allowed (Optional)
13	Registered Society & Registered Trust: Registered Society & Registered Trust: (i) A copy of Certificate of Registration (ii) A copy of Memorandum of Association of Society/Trust Deed (iii) A copy of Power of Attorney in favour of the individual to sign the tender documents and create liability against the Society/Trust. (iv) A copy of Rules & Regulations of the Society (v) All other documents in terms of Para 10 of the Tender Form (Second Sheet) of GCC 2022	No	No	Allowed (Optional)
14	If it is NOT mentioned in the submitted tender that tender is being submitted on behalf of a Sole Proprietorship firm / Partnership firm / Joint Venture / Registered Company etc., then the tender shall be treated as having been submitted by the individual who has signed the tender.	No	No	Allowed (Optional)
15	After opening of the tender, any document pertaining to the constitution of Sole Proprietorship Firm / Partnership Firm / Registered Company/ Registered Trust / Registered Society / HUF/LLP etc. shall be neither asked nor considered, if submitted. Further, no suo moto cognizance of any document available in public domain (i.e., on internet etc.) or in Railway's record/office files etc. will be taken for consideration of the tender, if no such mention is available in tender offer submitted.	No	No	Allowed (Optional)

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16	Joint Venture (JV): All documents as mentioned in para 17 of the Tender Form (Second Sheet) in case of JV this documents is required to be uploaded mandatorily..	No	No	Allowed (Optional)
17	ALTHOUGH, UNDERTAKING/DECLARATION REGARDING BLACKLISTED OR DEBARRED BY RAILWAY OR OTHER MINISTRY DEPARTMENT OF GOVT OF INDIA FROM PARTICIPATION IN TENDER ON THE DATE OF OPENING OF THE TENDER EITHER IN INDIVIDUAL CAPASITY OR AS A MEMBER OF THE PARTNERSHIP FIRM OR JV ETC IS KEPT OPTIONAL IN RESPECTIVE COLUMN BUT THE SAME IS REQUIRED TO SUBMIT BEFORE EXECUTION OF AGREEMENT CONCEALMENT/WRONG INFORMATION IN THE REGARD ABOVE SHALL MAKE THE CONTRACT LIABLE FOR DETERMINATION UNDER 62 CLAUSE OF GCC 2022	No	No	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 read the various conditions to tender attached hereto and agree to abide by the said conditions. I/We also agree to keep this tender open for acceptance for a period of 60 days (90 days for two packet system) from the date fixed for opening the same and in default thereof, I/We will be liable for forfeiture of my/our "Bid Security". I/We offer to do the work for S.E Railway, at the rates quoted in the attached schedule and hereby bind myself/ourselves to complete the work in all respects within Stipulated period mentioned in NIT Header from the date of issue of letter of acceptance of the tender	No	No	Not Allowed
3	I/We will not resile from my/our offer or modify the terms and conditions thereof in a manner not acceptable to the SE Railway during a period of 60 days (90 days for two packet system)from the date of opening of the tender,subject to the period being extended further if required, by mutual agreement from time to time.	No	No	Not Allowed
4	Full value of the bid security shall stand forfeited without prejudice to any other right or remedies in case my/our Tender is accepted and if: (a)I/We do not submit the Performance Guarantee within the time specified in the Tender document; (b)I/We do not execute the contract documents within seven days after receipt of notice issued by the Railway that such documents are ready; and (c)I/We do not commence the work within fifteen days after receipt of orders to that effect.	No	No	Not Allowed
5	I/We also hereby agree to abide by General conditions of contract 2022,CPWD Specifications 2019 Vol I & II, Indian Railways Unified Standard Specification (IRUSS-2019), updated with correction slips and Indian Railway Unified Standard Specifications Works Materials ,Indian Railways Unified Standard Specifications (Works and Material) 2010, IR Specifications/Guidelines, Relevant B.I.S. Codes updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents, as per the order of precedence defined in Para 1.01, Part-I of GCC 2022.	No	No	Not Allowed
6	Until a formal agreement is prepared and executed, acceptance of this tender shall constitute a binding contract between us subject to modifications, as may be mutually agreed to between us and indicated in the letter of acceptance of my/our offer for this work.	No	No	Not Allowed
7	I/We agree to keep this tender open for acceptance for a period of 60 days (90 days for two packet system) from the date fixed for opening the same, subject to the period being extended further if required, by mutual agreement from time to time.	No	No	Not Allowed
8	Provisions of Make in India Policy 2017 issued by Govt. of India, as amended from time to time, shall be followed for consideration of tenders	No	No	Not Allowed
9	Provisions of Contract Labour (Regulation and Abolition) Act, 1970, Provisions of Employees Provident Fund and Miscellaneous Provisions Act, 1952, Provisions of "The Building and Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996" and "The Building and Other Construction Workers' Welfare Cess Act, 1996", shall be binding to the tenderer	No	No	Not Allowed

6. Documents attached with tender

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S.No.	Document Name	Document Description
1	2018_CE-I_CT_9Date04_06_2018.pdf	Letter of Credit condition
2	SpecialConditions_Contract_17102018.pdf	Updation Labour data shramikkalyan
3	JPOcabledamage.pdf	JPO Cable damage
4	GCCACS.pdf	Advance Correction Slip No1 of GCC
5	Annexure-I-III.pdf	ANNEXURE
6	Annexure-IVVIIIIIX-1-41.pdf	ANNEXURE
7	ANNEXUREVIAforBIDSECURITY.pdf	Annexure
8	ANNEXUREVIBforFINANCIALCRITERIA.pdf	Annexure
9	GCC_April-2022_2022_CE-I_CT_GCC-2022_POLICY_27.04.22.pdf	GCC 2022
10	ASC-2GCC-2022.pdf	ACS2 2022

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: PREM PRAKASH KUMAR

Designation : Sr.DEN/Co/Adra