

**DYCE-C-II-JP-ENGINEERING/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: NWRSCSWM-JPCIVIL514110102

Closing Date/Time: 15/07/2024 15:00

By **CE/C/II/JP** acting for and on behalf of The President of India invites E-Tenders against Tender No **NWRSCSWM-JPCIVIL514110102** Closing Date/Time 15/07/2024 15:00 Hrs. Bidders will be able to submit their original/revised bids upto closing date and time only. Manual offers are not allowed against this tender, and any such manual offer received shall be ignored.

1. NIT HEADER

Name of Work	T. No. NWR/SC/SWM-JP/Doubling/Civil-514110102 - Earthwork in filling/cutting in formation, Blanketing, construction of Station Building including electrical and S&T structures, Passenger / Goods Platforms, Platform shelter, Foot Over Bridges, Passenger Amenities work, S&T structures, staff quarters, LHS / RUBs, Minor Bridges, Retaining walls, Toe wall, Pitching work and all other ancillary works between Jaipur - Chaksu stations from Km.131.27 to Km 87.60 in connection with Jaipur -SawaiMadhopur Doubling project.		
Bidding type	Two Stage Reverse Auction		
Tender Type	Open	Bidding System	Two Packet System
Tender Closing Date Time	15/07/2024 15:00	Date Time Of Uploading Tender	21/06/2024 18:09
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	1622066114.91	Tendering Section	CHOS/C/JP
Bidding Style	Single Rate for Tender	Bidding Unit	Above/Below/Par
Earnest Money (Rs.)	8260300.00	Validity of Offer (Days)	90
Tender Doc. Cost (Rs.)	0.00	Period of Completion	24 Months
Contract Type	Works	Contract Category	Expenditure
Bidding Start Date	01/07/2024	Are Joint Venture (JV) firms allowed to bid	Yes
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Capital (Works)
Auto Elimination rules applicable	Yes	Minimum Decrement (%)	.1
Initial Cooling Off Period (HH:MM)	04:00	Subsequent Cooling Off Period (HH:MM)	00:30

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule A-IRUSSOR-2021							1065817891.28	
1	Please see Item Breakup for details.				891049013.45	(-) 14.37	763005270.22	
	Description:- Bridge Work A2							
2	Please see Item Breakup for details.				353629126.54	(-) 14.37	302812621.06	
	Description:- Earth Work-A1							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule B-DSR-21							484356426.94	
1	Please see Item Breakup for details.				781220043.45	(-) 38.00	484356426.94	
	Description:- DSR-2021							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule C- DSR-2020 Horticulure							1941006.10	
1	Please see Item Breakup for details.				3130655.00	(-) 38.00	1941006.10	
	Description:- DSR-2020 Horticulture							

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S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule D-Non Schedule Item							67323677.79	
1	NS1	310.00	cum	4069.00	1261390.00	AT Par	1261390.00	
	Description:- Casting, transporting and launching of precast reinforced concrete slabs in M-25 design mix for RCC boxes including launching during traffic block or without traffic block etc. as per approved drawings & design with contractor's own materials such as sand, water, 6mm to 20mm well graded machine crushed stone aggregate, admixtures etc. including machine mixing of all gradients, placing, mechanical vibrating, curing etc. and providing shuttering, centering, formwork and handling, transporting to bridge sites including loading & unloading and launching including supplying, laying and levelling of required layer of sand underneath RCC slab as per approved drawing with contractor's own labour and equipments, all lead, lift, royalties, taxes etc. complete in all respect except cost of reinforcement & cement which will be paid separately under relevant USSOR items.							
2	NS2	1469.00	cum	5249.00	7710781.00	AT Par	7710781.00	
	Description:- Casting and transporting precast reinforced cement concrete boxes and U-Type/L-Type retaining wall segments in M30/35 design mix near LHS site with machine batched, machine mixed and machine vibrated design mix concrete, including the cost of centering, shuttering, finishing, admixture, if required, as per IS: 9103 to retard setting of concrete/improve workability without impairing strength and durability as per direction of Engineer-in-charge. Only machine mixed and automatic weigh batched concrete/ concrete produced by Fiori shall be used during entire work. The concrete shall be placed with the help of mechanical means only. Rates are inclusive of all the materials, labour, transporting to bridge sites including loading & unloading with contractor's own labour and equipments .curing, machinery, tools, plants, taxes etc. complete in all respect except cost of reinforcement & cement which will be paid separately under relevant USSOR items.							
3	Please see Item Breakup for details.				15326598.00	AT Par	15326598.00	
	Description:- Placement of precast reinforced cement concrete components (RCC box/U-Type/L-Type segments of retaining walls) with the help of suitable capacity road crane at desired location during traffic block of short duration with all contractor's labour, tools, material, cranes, machinery preparation of surface including cost of filling of joints by epoxy mortar, cutting of lifting hooks by gas cutting, all lead, lift, taxes etc complete in all respect.							
4	NS4	1018.00	Each	1416.00	1441488.00	AT Par	1441488.00	
	Description:- Providing and fixing along the railway track Boundary pillars in M-25 grade RCC and M-10 grade base concrete as per Railway drawings with contractor's own cement, steel, aggregate, water, tools and plants, equipments, consumables, laborers etc., inclusive of all lift & lead, taxes, royalties etc. complete as per special conditions of contract and as directed by Engineer-in-charge. Note:- Deduction will be made @ Rs. 171.04 Each quantity, if painting and lettering is not done.							
5	NS5	75.00	cum	2558.00	191850.00	AT Par	191850.00	
	Description:- Supplying & shrouding of pea gravel 2mm to 4mm size for tube well assembly according to Rly. specifications based on ISI specification of tube well.							
6	NS6	25.00	cum	5506.00	137650.00	AT Par	137650.00	
	Description:- Casting, supplying, transporting and launching pre-cast reinforced concrete in M25/M-30/M-35/M-40 design mix in ballast retainers etc. as per Railway drawings & Specifications, with Contractor's own materials such as sand, water, 6mm to 20mm well graded machine crushed stone aggregate etc. including machine mixing of all gradients, placing, mechanical vibrating, curing etc. and providing, erecting and dismantling of staging, shuttering, centering, formwork and providing AC/GI pipes of approved size for weep holes / drain pipes at spacing as decided by the Engineer in charge and handling, transporting to bridge sites including loading & unloading with contractor's own labour and equipments and placing in position including launching all lead, lift, royalties, taxes etc. complete as per instructions of Engineer in charge. Note - (i) The payment of Steel Reinforcement and Cement will be made separately in relevant item. (ii) The rates also includes fixing of Ballast Retainers etc., if required with epoxy resin or similar material and royalties, Taxes etc. complete as per instructions of Engineer in charge.							
7	NS7	9347.00	Each	1075.00	10048025.00	AT Par	10048025.00	
	Description:- Manufacturing, supplying & fixing of pr-fabricated RCC coping stone of size 530mm x1125mm x100mm thick as per top face designed and approved by site Engineer with M-30 grade RCC with 8 mm dia. tor steel at 150mm c/both ways and manufactured by vibro compaction process using jointless FRP/GRP steel moulds of required size,shape & design. The item includes cost of cement, reinforcement, transportation etc. (Note :Under layer of cement mortar to be laid as per site conditions & should be paid for separately)							
8	NS8	500000.00	Litre	17.18	8590000.00	AT Par	8590000.00	

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	Description:- Construction of design mix RCC M-30 over head tank of 225000 / 125000 litres capacity each with 20 metre high staging including inspection stairs with contractor's own drawing and design approved by Railway, with contractors own materials, labours, tools and plants, machinery etc. complete. The rate includes the cost of construction of RCC tank with staging as per contractor's own design and drawing, conducting soil investigations required for design and drawing, submission and approval of design and drawing, testing etc. complete. The rate also includes the cost of all materials such as cement, sand, aggregates, water, steel reinforcement, shuttering, scaffolding etc. and all lead, lift etc. complete. Nothing extra will be paid for this item.						
9	NS9	53.00	Each	16493.00	874129.00	AT Par	874129.00
	Description:- Constructing of RCC chatterry on Face wall /corner over roof/Pillars as per approved plan with contractors own material and labour complete as per following specification cement conc. base 60x60x13cm with 4 pillars of 13x13x 90cm with 15cm wide projected standing chajja around the pillars, with a Gumati of 45cm height from top of dome. The total height of upto Gumti is 1.35m.						
10	NS10	25000.00	cum	14.30	357500.00	AT Par	357500.00
	Description:- Extra for mechanical compaction of earth/blanketing material filled in embankment with contractor rollers of suitable capacity, type and size to achieve specified density as per specification, testing as per IS codes incl. cost of water, T&P consumable material and all labour as a complete job. The work is to be executed as per Latest edition of Guidelines for Earthwork in Railway Projects issued by RDSO, Lucknow						
11	NS11	3463.00	cum	953.40	3301624.20	AT Par	3301624.20
	Description:- Providing dry stone pitching of 150 mm to 200 mm thickness with contractor's own stone of minimum size 150 mm in all directions and minimum surface area 300 sqcm closely packed, firmly bedded and filling all interstices with small stone driven tight with rammer/hammer. Rates are inclusive of cost for labour, tools & plants and all royalties, taxes etc as payable.						
12	NS12	50.00	Each	9804.00	490200.00	AT Par	490200.00
	Description:- Supplying, erecting and fixing precast concrete reinforced bench with back rest. Bench shall consist of 2 nos. L shaped base support in natural cement colour of thickness 100 mm, back height 1000 mm, front height 450 mm, base width 620 mm and 5 nos. reinforced concrete planks in red colour and size of 1500 x 100 x 50mm and 1 no. reinforced concrete plank of 150 x 200 x 50mm; manufactured by using M-30 grade concrete & reinforced suitably; all parts to be joined with galvanised nuts and bolts of suitable size. All bolts to be sealed after assembly. Complete job to be done as per directions of Engineer Incharge.						
13	NS13	17163.00	cum	-912.47	-15660722.61	AT Par	-15660722.61
	Description:- Deduction from DSR item no. 7.1.1 and 7.2.1 for work done with railway stone etc.						
14	NS14	900.00	cum	5941.00	5346900.00	AT Par	5346900.00
	Description:- Casting, transporting and launching of precast RCC duct & connecting chamber for cable laying in M-25 design mix (with minimum cement content of 330Kg/Cum) during traffic block or without traffic block etc. as per approved drawing with contractors own materials such as cement, sand, water, 6 to 20mm well graded machine crushed stone aggregate, admixture etc. including machine mixing of all gradients, placing, mechanical vibrating, curing etc. and handling, transporting to work sites including centering & shuttering, loading, unloading & launching as per approved drawing with contractor's own labour & equipment's, all lead, lift, royalties, taxes etc. complete in all respect except cost of reinforcement which will be paid separately under relevant DSR-2021 items.Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. Incase the cement content in design mix is more than 1.10 times of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.						
15	NS15	100.00	Sqm	1121.00	112100.00	AT Par	112100.00
	Description:- Painting of Murals, pictures, curving of different size & shape duly coloured on smooth wall surface/plywood surface with paint & oil painting with different shapes on the wall to give ethnic-etho local art/architecture to station building as a complete job as directed by Engineer-in-charge or his representative including all labour & material such as paints, brushes, tool & plant etc. Nothing shall be paid extra on any account.						
16	NS16	345.00	MT	-3910.00	-1348950.00	AT Par	-1348950.00
	Description:- Deduct for using steel conforming to Quality "A" instead of Quality "B0" of Grade designation E250 as per IS:2062 in item no. 041011.						
17	NS17	345.00	MT	239.36	82579.20	AT Par	82579.20
	Description:- Extra over item no 041010, if the launching of girder of FOB is to be executed under traffic or power block.Note:- 1. Payment under this item to be paid for only members to be launched under traffic or power block.2. 100% test check by XEN/AXEN/Const concerned is compulsory.						
18	NS18	4.00	Set	272697.00	1090788.00	AT Par	1090788.00
	Description:- Supply, installation, testing and commissioning of lifting barrier (for level crossing gate)Drawing no. SA- 7974/M (Adv.)Alt-3 with Gate lamps, levers with lever locks, boom locals arrangement and winch to Drg. No. SA-8132DC (Adv.) complete 10 metresto spec. no. IRS-S-1078. Both side of level crossing (1 set =02 Barriers.). (Use this NS Item only when a Temporary LC is required to be commissioned before construction of LHS)						
	NS19	1733.00	cum	9956.00	17253748.00	AT Par	17253748.00

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19	<p>Description:- Providing, hoisting and fixing in position M30 grade Reinforced Cement Concrete in precast standard platform wall section as per Railway,s approved drawing including RCC work as per approved mix design with coarse sand and stone aggregate of 20mm and down gauge in all work including setting in cement mortar 1 :3 (1 cement: 3 coarse sand), compaction of concrete by electric / mechanical vibrator, providing and using admixture in recommended proportion as per IS-456 & IS 9103, concrete bridge code applicable as per approved mix design complying with minimum cement content, maximum water cement ratio and slump as specified produced by RMC plant/ automatic computerized batching plant and placed preferably using concrete, pump including designing of concrete mix, finishing the exposed surface of concrete, curing of concrete as required in IRS-CBC/IS codes as applicable, including all lead by transit mixer (crossing of stream, nallahs, Railway tracks, Level crossings or any other obstruction such as traffic jam whatsoever) including cost of cantering, shuttering, lift pumping, ascend, descend, loading, unloading, handing, wastages 1f any, cost of safety works and safety precautions with all labour, arrangements for cold weather and hot weather concrete as applicable, taxes and royalty etc, as a complete job as per specification and as per directions of engineer in charge. Nothing extra will be. paid in any account. The rate will also include cost of OPC cement and admixture (Plasticiser, shuttering, super plasticizer of retarder etc.) as per approved mix design. Payment of reinforcement steel including cutting, straightening, hooking, bending, binding, placing keeping and maintaining in position including cost of binding wire will be arrange by contractor and payment will be made separately under relevant item of USSOR 2021.</p>						
20	NS20	6000.00	Sqm	1786.00	10716000.00	AT Par	10716000.00
	<p>Description:- Supplying and fixing Galvanised Steel / Galvalume self supporting sheet in roofing made from Mild steel having thicknessminimum0.80 BMT (Base Metal Thickness) having coating of Zinc /Aluminium + Zinc including cutting to size and shape including fixing. The rates shall includes all cost of materials, taxes, labour, tools, plants, fixture etc. complete andfixing as per direction of Engineer In Charge at site Note:- (1)Contractor will have to be submit the design of the roofing duly proof checked from Govt. Engg College / II T / NIT for approval of the Railway. Roofing shall be provided only after getting it approved from the Railway. (2) In design, CBE,NWR drawingNo. CBE- 1017/RUB/2018/Roof Covering/R1and CBE-1017/RUB/2018/Roof Covering/Sheet No. 1 may be refer for guidance purpose.</p>						

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule E-Schedule-E							2627112.80	
1	NSE1	712.00	Numbers	352.00	250624.00	AT Par	250624.00	
	<p>Description:- Recessed/Surface conduit wiring system-Supply of material and wiring of LP/TP/FP/Exhaust fan/ Bell point with single core multistrend copper conductor size 1.5 Sq.mm in PVC conduit pipe with 5/6 Amp modular type switch/ceiling rose/batten holder etc. As per specification.</p>							
2	NSE2	278.00	Numbers	222.00	61716.00	AT Par	61716.00	
	<p>Description:- Supply and fixing 5/6A plug, modular 5-pin 230V including modular switch and with modular board and wiring with 2.5 sqmm PVC CU cable as per specification.</p>							
3	NSE3	248.00	Numbers	228.00	56544.00	AT Par	56544.00	
	<p>Description:- Supply and fixing 15/16A plug, modular 5-pin 230V including modular switch and with modular board and wiring with 04.0 sqmm PVC CU cable as per specification.</p>							
4	NSE4	110.00	Numbers	93.00	10230.00	AT Par	10230.00	
	<p>Description:- Supply and fixing 2 module modular switch board plate for fixing of modular switches -plug with sheet metal box of good quality concealed fixing of MS/PVC as per site engineer.</p>							
5	NSE5	156.00	Numbers	187.00	29172.00	AT Par	29172.00	
	<p>Description:- Supply and fixing 6 module modular switch board plate for fixing of modular switches -plug with sheet metal box of good quality concealed fixing of MS/PVC as per site engineer.</p>							
6	NSE6	120.00	Numbers	243.00	29160.00	AT Par	29160.00	
	<p>Description:- Supply and fixing 8 module modular switch board plate for fixing of modular switches -plug with sheet metal box of good quality concealed fixing of MS/PVC as per site engineer</p>							
7	NSE7	141.00	Numbers	266.00	37506.00	AT Par	37506.00	
	<p>Description:- Supply and fixing 12 module modular switch board plate for fixing of modular switches -plug with sheet metal box of good quality concealed fixing of MS/PVC as per site engineer.</p>							
8	NSE8	136.00	Numbers	302.00	41072.00	AT Par	41072.00	
	<p>Description:- Supply and fixing ceiling of fan regulator electronic type 5-step as per specification.</p>							
9	NSE9	3120.00	Metre	68.00	212160.00	AT Par	212160.00	
	<p>Description:- Supply, laying, connection and commission of sub-main 2x2.5 Sqmm with PVC insulated single core copper conductor cable and same size PVC insulated copper conductor for earthing wire in 19/20 mm ISI PVC conduit in recessed/ on surface as per site requirement etc. of various size cable as below. As per specification.</p>							

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10	NSE10	1580.00	Metre	120.00	189600.00	AT Par	189600.00	
	Description:- Supply, laying, connection and commission of sub-main 2x4 Sqmm with PVC insulated single core copper conductor cable and same size PVC insulated copper conductor for earthing wire in 19/20 mm ISI PVC conduit in recessed/ on surface as per site requirement etc. of various size cable as below. As per specification.							
11	NSE11	640.00	Metre	122.00	78080.00	AT Par	78080.00	
	Description:- Supply, laying, connection and commission of sub-main 2x6 Sqmm with PVC insulated single core copper conductor cable and same size PVC insulated copper conductor for earthing wire in 19/20 mm ISI PVC conduit in recessed/ on surface as per site requirement etc. of various size cable as below. As per specification.							
12	NSE12	10.00	Numbers	3494.00	34940.00	AT Par	34940.00	
	Description:- Supply, fixing, testing and commissioning of RCBO 63A, Four pole, 30mA with Earth leakage, overload and short circuit protection as per specification.							
13	NSE13	10.00	Numbers	5344.00	53440.00	AT Par	53440.00	
	Description:- Supply, fixing, testing and commissioning of Distribution Board double door, 3-phase and neutral with incoming 63A 4-pole MCB and outgoing 12Nos. MCB 6-32A single pole as per specification.							
14	NSE14	36.00	Numbers	2403.00	86508.00	AT Par	86508.00	
	Description:- Supply, fixing, testing and commissioning of RCBO 25A, Double pole, 30mA with Earth leakage, overload and short circuit protection as per specification.							
15	NSE15	36.00	Numbers	2793.00	100548.00	AT Par	100548.00	
	Description:- Supply, fixing, testing and connecting of Distribution Board with incoming 32A, single phase, DP MCB and outgoing 8Nos. single pole MCB 6-16A as per specification.							
16	NSE16	123.00	Numbers	873.00	107379.00	AT Par	107379.00	
	Description:- Supply and fixing metal clad plug socket 20A single phase with 32A MCB including fixing and sheet metal enclosure box with one 20A plug top (Ray roll type) to be supplied with board.							
17	NSE17	136.00	Numbers	138.00	18768.00	AT Par	18768.00	
	Description:- Installation /shifting testing and connection of ceiling fans (Fans will be supplied by Railway). As per specification.							
18	NSE18	280.00	Numbers	73.00	20440.00	AT Par	20440.00	
	Description:- Fixing, testing & commissioning of LED tube light fitting as per spec. (Complete fitting will be supplied by Rly. & transported by the contractor). As per Specification.							
19	NSE19	234.00	Metre	247.00	57798.00	AT Par	57798.00	
	Description:- Supply and fixing of G.I.pipe 50mm for cable laying with pole/wall/under road/floor etc.							
20	NSE20	5000.00	Metre	98.00	490000.00	AT Par	490000.00	
	Description:- Supply and laying of HDPE pipe conforming to IS 4984:1995, 50 mm dia wall thickness 3 mm under the road/PF/ in ground or as per site requirement. As per specification.							
21	NSE21	1500.00	Metre	108.00	162000.00	AT Par	162000.00	
	Description:- Supply and laying of HDPE pipe conforming to IS 4984:1995, 75/80mm dia wall thickness 3 mm PN-4 under the road/air. The work involves laying of HDPE pipe. As per specification.							
22	NSE22	6500.00	Metre	44.00	286000.00	AT Par	286000.00	
	Description:- Digging and filling of trench size 0.4 x 0.8 mtr as per spec. (trench work may be on kuchha/pucca land and all type of soil as per site requirement and without protective layer of brick)							
23	NSE23	7000.00	Metre	20.00	140000.00	AT Par	140000.00	
	Description:- Laying, testing & commissioning of LT cable in Air / laid concrete pipe /in ground in trench across crossing pole with transportation from main depot to required site. Note: - Cable will be supplied by Railways.							
24	NSE24	18.00	Numbers	478.00	8604.00	AT Par	8604.00	
	Description:- Dismantling of existing LT Poles with fittings by digging the foundation and transportation up to the required site as per specification.							
25	NSE25	18.00	Numbers	525.00	9450.00	AT Par	9450.00	
	Description:- Dismantling of existing HT/LT overhead crossing complete in all respect & connecting XLPE cable 11 KV grade / LT cables to the system.							
26	NSE26	15.00	Numbers	1342.52	20137.80	AT Par	20137.80	
	Description:- Supply and Providing GI Pipe Earthing of 3 meter length. As per specification.							
27	NSE27	4.00	Numbers	2059.00	8236.00	AT Par	8236.00	
	Description:- SITC of LT heat shrinkable straight through joint (25-185sqmm cable).							
28	NSE28	1000.00	Metre	27.00	27000.00	AT Par	27000.00	
	Description:- Supply of material and stringing of ACSR DOG conductor size 06/1/3.35 Note: - Cost shall be quoted for per meter of conductor and as per specification enclosed.							

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3. ITEM BREAKUP

Schedule		Schedule A-IRUSSOR-2021				
Item- 1		Bridge Work A2				
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Exploratory drilling of boreholes down to required depth, drilling of 150mm dia. boreholes in all type of soils except hard rock & large boulders (boulder core more than 30cm) including refilling, reinstating surface and disposing off surplus material including use of mechanical rigs with power operated winches as well as percussion/chiselling tool for advancing through occasional seams of hard strata to be employed, where necessary in Dry area.				
1	021011	0m to 10m	Metre	100.00	1300.48	130048.00
		Exploratory drilling of Boreholes down to required depth, drilling of 150mm diameter boreholes in all type of soils except hard rock and large boulders (boulder core more than 30cm), including refilling, reinstating surface and disposing off surplus material including use of mechanical rigs with power operated winches as well as percussion / chiselling tool for advancing through occasional seams of hard strata to be employed where necessary in River bed area including standing/flowing water with all necessary arrangements except making of platform under water which shall be paid under relevant item of SOR.				
2	021021	0m to 10m	Metre	50.00	1560.57	78028.50
		Conducting in-situ full size Plate Load Test (PLT) at selected location as per IS:1888 including making loading arrangements & casting of RCC/cast in-situ concrete footing as per codal provisions including excavation and refilling of trial pit.				
3	021063	Plate size 60cm x 60cm	Each	50.00	29920.30	1496015.00
4	021110	Taking out 100mm dia. & 450mm long undisturbed samples of soil from bore holes, including provision of air tight containers for packing and, labeling incl. transporting the samples to laboratory. Piston sampler shall be used for extracting undisturbed samples where necessary. Samples shall be collected as per IS:2720.	Each	50.00	152.52	7626.00
5	021120	Taking out 100mm dia. & 450mm long disturbed samples of soil from bore holes, including provision of air tight containers for packing, labeling and transporting the samples to laboratory. Samples shall be collected as per IS:2720.	Each	50.00	164.57	8228.50
6	021130	Conducting standard penetration test as per IS:2131 at approximate 1.5m intervals in bore holes, as directed by the Engineer in charge	Each	50.00	852.27	42613.50
		Conducting laboratory Tests on collected soil samples as per relevant IS code				
7	021151	Moisture Content/Dry Density	Each	50.00	287.66	14383.00
8	021152	Atterberg Limits	Each	50.00	586.02	29301.00
9	021153	Specific Gravity	Each	50.00	631.51	31575.50
10	021154	Grain size analysis including Hydrometer analysis	Each	50.00	727.84	36392.00

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11	021155	Direct Shear Test	Each	50.00	2330.69	116534.50
12	021156	Natural Density	Each	50.00	674.32	33716.00
13	021157	Consolidation Test	Each	50.00	6886.37	344318.50
14	021158	Unconfined Compression Test	Each	50.00	2006.91	100345.50
15	021159	Tri-axial Test	Each	50.00	2158.09	107904.50
		Conducting Laboratory tests on collected ROCK SAMPLES as per relevant IS code				
16	021161	Density Test	Each	50.00	301.04	15052.00
17	021162	Water Absorption & Porosity	Each	50.00	301.04	15052.00
18	021163	Hardness	Each	50.00	167.24	8362.00
19	021164	Unconfined Compression Test	Each	50.00	2144.71	107235.50
20	021165	Point Load Test	Each	50.00	1150.63	57531.50
21	021166	Modulus of Elasticity	Each	50.00	1649.68	82484.00
22	021167	Abrasion Testing	Each	50.00	672.98	33649.00
23	021170	Conducting chemical analysis of ground water samples to determine suitability for concreting and aggressiveness in relation to attack on concrete / reinforcement including determination of pH value.	Each	50.00	1355.33	67766.50
24	021180	Conducting chemical analysis of soil samples to determine aggressiveness in relation to attack on concrete / reinforcement including determination of pH value	Each	50.00	1438.28	71914.00
		Earthwork in excavation by mechanical means (Hydraulic Excavator)/Manual Means for foundations and floors of the bridges, retaining walls etc. including setting out, dressing of sides, ramming of bottom, getting out the excavated material, back filling in layers with approved material and consolidation of the layers by ramming and watering etc. including all lift, disposal of surplus soil up to a lead of 300m, all types of shoring and strutting with all labour and material complete as per drawing and technical specification as directed by Engineer in charge. Note: This item will be used for excavation work in connection with other miscellaneous works also like side drains, foundation for OHE masts and other miscellaneous structures in connection with Gauge Conversion, Doubling, New lines.				
25	022011	All kinds of soils	cum	79044.00	210.90	16670379.60
26	022012	Soft rock (not requiring blasting)	cum	8100.00	439.13	3556953.00
27	022014	Hard rock (blasting prohibited)	cum	4550.00	1218.51	5544220.50
		Providing and laying in position Plain cement concrete of specified Nominal Mix for miscellaneous works like side drains, foundation for OHE masts and other miscellaneous structures excluding the cost of Cement, centering and shuttering - All work up to plinth level :				
28	022031	1:1½:3 (1 Cement: 1½ coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size)	cum	25032.00	2845.47	71227805.04
29	022032	1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	cum	1358.00	2936.59	3987889.22
30	022034	1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size)	cum	3158.00	3015.76	9523770.08

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31	022040	Providing and laying in position machine batched, machine mixed and machine vibrated Cement Concrete of specified grade as per approved Design Mix (mixed in Mobile Concrete Batching/Mixing Plant at site or RMC from approved plants) using 20mm graded crushed stone aggregate and coarse sand of approved quality in RCC raft foundation & Pile cap including finishing, using Plasticiser in approved proportions (as per IS:9103), to modify workability without impairing strength and durability complete as per specifications and direction of the Engineer in charge. Note: 1. Payment for cement, reinforcement and shuttering shall be made extra under relevant item. 2. Plasticiser shall invariably be used in approved proportion to increase workability with minimum possible quantity of cement for all grade of Design Mix Concrete unless it is specifically approved citing reasons for not using plasticiser at the stage of Mix Design and in that case deduction shall be made as per relevant item.	cum	5458.00	2919.59	15935122.22
		Providing and laying in position machine batched, machine mixed and machine vibrated Cement Concrete of specified grade as per approved Design Mix (mixed in Mobile Concrete Batching/Mixing Plant at site or RMC from approved plants) using 20mm graded crushed stone aggregate and coarse sand of approved quality for the following Reinforced cement concrete structural elements up to height of 9.0 m from foundation top level, including finishing, using Plasticiser in approved proportions (as per IS:9103), to modify workability without impairing strength and durability complete as per specifications and direction of the Engineer in charge. Note: 1. Payment for cement, reinforcement and shuttering shall be made extra under relevant item. 2. Plasticiser shall invariably be used in approved proportion to increase workability with minimum possible quantity of cement for all grade of Design Mix Concrete unless it is specifically approved citing reasons for not using plasticiser at the stage of Mix Design and in that case deduction shall be made as per relevant item.				
32	022052	Wing wall and Return wall	cum	6850.00	2999.09	20543766.50
33	022060	Providing and laying Plain Cement Concrete 1:3:6 with graded stone aggregate of 40mm nominal size, in foundation and floors, retaining walls of bridges including mechanical mixing, vibrating, pumping and bailing out water where ever required with all materials and labour complete but excluding the cost of cement and shuttering as per drawings and technical specifications as directed by Engineer.	cum	446.00	2988.17	1332723.82
34	022070	Providing and fixing Weep Holes in Abutments, Wing walls and Return walls etc., of new bridges with 110mm dia UPVC pipe Type A ISI marked with all contractor's men, material, transportation, all taxes as per specifications and as directed by Engineer-in-Charge.	Metre	465.00	262.24	121941.60

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35	024010	Providing and casting machine batched, machine mixed and machine vibrated Cement Concrete of specified grade as per approved Design Mix, mixed in Mobile Concrete Batching/Mixing Plant at site or RMC from approved plants, (Cast in-Situ/Pre-cast) in bottom/top slab, side walls, toe wall and sumps haunch filling head walls, thrust bed or any other component using 20mm graded crushed stone aggregate and coarse sand of approved quality of RCC box of any size including finishing, Plasticiser in approved proportions (as per IS:9103), to modify workability without impairing strength and durability, complete as per drawings and technical specifications as directed by Engineer in charge. Note: 1. Payment for cement, reinforcement and shuttering shall be made extra under relevant item. 2. Plasticiser shall invariably be used in approved proportion to increase workability with minimum possible quantity of cement for all grade of Design Mix Concrete unless it is specifically approved citing reasons at the stage of Mix Design and in that case deduction shall be made as per relevant item.	cum	6126.00	3211.55	19673955.30
36	024020	Providing and laying in position machine batched, machine mixed and machine vibrated Design Mix Cement Concrete, mixed in Mobile Concrete Batching/Mixing Plant at site or RMC from approved plants, of specified grade (cast in-situ) using 20mm graded crushed stone aggregate and coarse sand of approved quality in Drop and curtain wall and alike structures below bed level, complete in all respect as per drawings and technical specifications to the satisfaction of Engineer-in-Charge. Note: Payment for cement, reinforcement and shuttering shall be made extra.	cum	1451.00	2919.59	4236325.09
37	025020	Providing and applying two coats of coal tar or bitumen conforming to IS:3117- latest version on the top and sides of RCC box/slabs @ 1.70 kg/sqm after cleaning the surface with all labour and materials complete job as directed by the Engineer.	Sqm	14164.00	178.84	2533089.76
		Centering and shuttering including strutting, propping etc. and removal of form for :				
38	025031	All types of bridge sub-structures, e.g. pier, abutment, wing wall, retaining wall, RCC box type foundations, Abutment cap, Pier Cap, Inspection Platform & Pedestal over Pier cap, Fender wall, Diaphragm wall etc. up to 5m above ground level	Sqm	109553.00	715.17	78349019.01

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39	025040	Providing and laying in position machine batched, machine mixed and machine vibrated Cement Concrete of specified grade as per approved Design Mix (mixed in Mobile Concrete Batching/Mixing Plant at site using 20mm graded crushed stone aggregate and coarse sand of approved quality in jacketing of piers and abutments from bottom of foundation up to a height of 10m for designed thickness of jacketing including finishing, using Plasticiser in approved proportions (as per IS:9103), to modify workability without impairing strength and durability complete as per specifications and direction of the Engineer in charge. Note : 1. Payment for cement, reinforcement and shuttering shall be paid extra under relevant item. 2. Plasticizer shall invariably be used in approved proportion to increase workability with minimum possible quantity of cement for all grade of Design Mix Concrete unless it is specifically approved citing reasons for not using plasticisers at the stage of Mix Design and in that case deduction shall be made as per relevant item.	cum	50.00	5076.90	253845.00
		Extra over 025040 for drilling of holes and insertion of dowel bars in case of Jacketing				
40	025051	Extra for drilling 32mm dia. holes for jacketing / anchoring	Metre	100.00	172.82	17282.00
41	025052	Extra for inserting of dowel bars of specified dia. (cost of rods to be paid extra)	Metre	100.00	15.89	1589.00
42	025060	Supplying, spreading and compacting well graded hard stone of 63mm average size (maximum up to 80mm size) in the bottom of foundation of box culverts, bridges etc. including all lead, lift, ascent, descent etc. complete job as per directions of Engineer In-charge.	cum	316.00	1308.30	413422.80
		Supply and using Cement at Worksite				
43	025071	Ordinary Portland Cement 43 grade approved brands/makes	MT	20950.00	7801.51	163441634.50
44	025072	Ordinary Portland Cement 53 grade of approved brands/makes	MT	100.00	7968.76	796876.00
45	025073	Pozzolana Portland Cement approved brands/makes	MT	1520.00	7294.44	11087548.80
		Supply of steel reinforcement of approved brands/makes for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
46	025082	Thermo-Mechanically Treated bars of grade Fe-500D or more of approved brands/makes.	Kg	2616971.00	107.01	280042066.71

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47	031130	Casting and installation of single/twin RCC box of all sizes with or without common web section after supporting the track on temporary girders including design of pushing scheme, thrust bed, casting of all RCC components, with specified grade of controlled concrete, pushing it in correct position and alignment below Railway track/Road following all measures of track safety by 'Air pushing technique" as per approved drawings/scheme, in all types of soils with disposal of surplus earth away from vent up to 1 Km, fixing arrangement for all services & utilities including parapet walls on both sides, wearing course, foot paths, plaques, drainage arrangements etc. and all other incidental works to complete the ROB/RUB/Canal crossing in all respect as per specifications to the satisfaction of Engineer-in-Charge. Note: (1) The rate includes all items of work/supplies for complete job in all respects except "cost of Reinforced cement concrete, cement, reinforcement & shuttering" of (i) main RCC Box; (ii) Thrust Bed; (iii) Footpath (iv) Parapet wall and (v) wearing Course only, which shall be paid extra under relevant items of USSOR. (2) The CC Cribs as required and Temporary Girder shall be supplied by Railways at available location. (3) Transportation of Temporary Girder to site shall be paid separately under relevant item.. (4) The payment for this item shall be made for the clear inner cross section area of the parent RCC Box/Boxes and barrel length i.e. clear inner volume of parent RCC Box/Boxes.	cum	1920.00	3384.16	6497587.20
		Loading, transportation of Precast RCC Girders / Slabs / Ballast retainers / Steel Girders etc. from Casting Yard to Site of Work, unloading and stacking at site of work at prescribed location as directed by Engineer-in-Charge up to 60 kms.				
48	031161	Up to 5.00 Km	MT	100.00	115.69	11569.00
49	031162	Above 5 km up to 10 km	MT	100.00	149.90	14990.00
50	031163	Above 10 km up to 15 km	MT	100.00	180.67	18067.00
51	031164	Above 15 km up to 20 km	MT	100.00	209.02	20902.00
52	031165	Above 20 km up to 25 km	MT	100.00	235.62	23562.00
53	031166	Above 25 km up to 30 km	MT	100.00	260.90	26090.00
54	031167	Above 30 km up to 35 km	MT	100.00	285.18	28518.00
55	031168	Above 35 km up to 40 km	MT	100.00	308.66	30866.00
56	031169	Above 40 km up to 60 km	MT	100.00	362.64	36264.00
		Loading, transportation of Precast RCC Girders / Slabs / Ballast retainers / Steel Girders etc. from Casting Yard to Site of Work, unloading and stacking at site of work at prescribed location as directed by Engineer-in-Charge above 60 kms.				
57	031171	Above 60 km up to 80 km	MT	100.00	447.86	44786.00
58	031172	Above 80 km up to 100 km	MT	750.00	531.34	398505.00

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		Supplying, fabrication, assembling of all types of steel girders of specified spans with structural steel conforming to Quality "B0" Grade Designation E250 conforming to IS:2062, erection / slewing / end launching of steel girders with cranes or any other approved launching methods as per site conditions (not requiring traffic block) on sub-structure including provision of trolley refuges etc., complete as per approved QAP and drawings conforming to IRS-B1-2001 and other relevant codes and specifications. Note: 1. Detailed fabrication and erection drawings & launching methodology will be prepared by the contractor and got approved from Railway. 2. The rate is all inclusive including launching in position, complete in all respect except cost of (i) Painting / Metalising; (ii) Bearings & (iii) HSFG bolts which shall be paid extra under relevant item. 3. The payment shall be made on the theoretical weight of main components and gusset plates only. 4. Payment Schedule: (i) Receipt of material at site: 40% (ii) Fabrication of girders: 20% (iii) Erection/Launching: 20% (iv) Completion in all respects: 20%				
59	041011	Plate Girder/Semi Through Girder/Composite Girder (Steel Work)	MT	345.00	138069.16	47633860.20
		Providing and fixing various size HTS holding down bolts conforming to relevant Codes/Specification in concrete column or in other structures with proper nuts, bolts, washers/plates, grouting of holes with cement or epoxy concrete with all material, labour, T&P as a complete job.				
60	041071	With Cement Grout. Cost of cement shall be paid extra.	Kg	5020.00	171.42	860528.40
		Launching in position, by any approved method, pre-fabricated Steel Girders, precast PSC girders/slabs, casted at casting bed developed at site, to correct alignment and level over the bed block / pedestal with all required arrangements, complete in all respect.				
61	041322	Structural steel plate girders	MT	100.00	1318.35	131835.00
		Delaunching of existing and Launching & fixing of new girder/slab in exact location of all type of steel/PSC girders/Slabs available at site, during block, complete job including lifting to any height as per site requirement, provision of approaches, and placing of released material away from bridge stream or roads as the case may be. Note: Payment under this item shall be made for the total weight of girder removed and newly launched girder.				
62	041343	Delaunching of existing Structural steel plate girders / slabs and Launching New Structural steel plate girders	MT	100.00	936.52	93652.00
63	041344	Delaunching of existing Structural steel plate girders / slabs and Launching New PSC girders / slabs	MT	100.00	1073.87	107387.00

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64	041370	Supplying fabricating and erecting welded and/or bolted and/or riveted steel work in built up sections, trusses and framed work, staging, racks, Height Gauge etc. for Steel Structures other than bridge girders, using RSJ, tees, angles and channels/flats, plates, gussets, round or square bars, cleats, bolts etc., with contractors own steel including cutting, bending, straightening, drilling, riveting, hoisting, fixing, erecting, welding, bolting etc., with Providing stiffeners wherever required as per approved drawing including applying a priming coat of a approved steel primer with all contractor's materials, labour, tools & plants, lead & lift including crossing of tracks if required etc., complete as per specification and as directed by Engineer-in-charge. Note: The payment shall be made on the theoretical weight of main components and gusset plates only.	MT	840.00	129631.69	108890619.60
65	051010	Providing and laying boulders apron on river bed for protection against scour with stone boulders weighing not less than 35 kg each with voids filled with spalls complete as per drawing and Technical Specification.	cum	238.00	1975.73	470223.74
66	051030	Supplying of stone boulders weighing not less than 35 kg each at specified bridge locations.	cum	100.00	1202.81	120281.00
67	051080	Providing and laying Filter Material as per RDSO Specifications underneath pitching in slopes complete as per drawing and Technical Specification.	cum	40.00	3082.74	123309.60
68	052010	Providing and laying flooring with rubble stone, laid over 15cm thick CC 1:2:4 and the voids filled with CC 1:2:4 complete with the joints pointed with 1:2 Cement Sand mortar as per drawing and Technical specifications. Payment for cement to be done separately. Voids in the rubble stone to be taken as 35% of the gross volume of the stone layer. Note: Base concrete shall be paid extra under relevant item.	cum	100.00	2887.37	288737.00
69	052030	Supply and laying of quarry dust including consolidation, supply of all materials, labour, lead, lift, tools, plants, crossing of tracks as per drawing and technical specification as directed by the Engineer in charge in case loose slush is encountered at site of foundation before casting the foundation or laying the filtering media.	cum	500.00	1154.27	577135.00
70	052040	Supply and laying of coarse sand including consolidation with all labour, lead, lift, tools, plants, crossing of tracks as per drawing and technical specification as directed by the Engineer in charge in case loose slush is encountered at site of foundation before casting the foundation or laying the filtering media.	cum	500.00	2242.55	1121275.00
71	052150	Providing and laying of filter media consisting of granular materials of GW, GP, SW groups as per IS:1498 (latest) in required profile behind boulder filling of abutments, wing walls / return walls etc. above bed level with all labour and material complete job as per drawing and technical specification of RDSO Guidelines.	cum	1036.00	2577.00	2669772.00
72	052200	Painting the HFL mark and Danger level mark, year of HFL on bridge abutments and piers with ready mixed paint as per standard in two coats over one coat of primer with all materials, labour, tools, scaffolding, all lead and lift etc. including writing complete.	Each	62.00	303.85	18838.70

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73	052210	Providing cast in situ bridge number plaques as per Railway drawing in cement concrete 1:2:4 mix using 20mm hard stone aggregate embedded in 30mm notch in Bridge parapet coping duly engraving the letter and figures and an arrow indicating the direction of flow and finishing the top exposed surface with cement mortar 1:3, painting letters and figures with two coats of black enamel paint on two coats of white background with all labour, tools, cement, paint etc. with all leads and lifts.	Each	89.00	869.26	77364.14
74	052220	Providing cast in-situ plaques for bridge foundations details of size 45cmx45cmx5cm in cement concrete 1:2:4 mix using 20mm hard stone aggregate embedded in 30mm deep notch over abutment & piers, engraving the letters & figures with CM 1:3 and finished smooth including painting letters and figures with 2 coats of black enamel and plaque with white enamel with all labour, tools, cement, paint, curing etc. as a complete job.	Each	64.00	1308.64	83752.96
75	052250	Providing Boulder Backing behind wing wall, return wall, retaining wall with hand packed boulders & cobbles with smaller size boulders toward the back including all lead, lift, labour & other incidental charges as complete work in all respect. Payment for boulder/cobbles will be done extra.	cum	259.00	411.68	106625.12
76	052260	Dewatering of natural or accumulated water from any location. Payment to be done for Horse power of pump multiplied by pumping hours.	HP Hour	930.00	44.73	41598.90
		Manufacture, supply and replacement of one side of level crossing of existing Railway's lifting barrier assembly and boom supports of different boom length including required excavation & concreting foundation of 'A' type, as required for pedestal bases & fixing it on boom supports, painting iron works with two coats of synthetic enamel paint over one coat of primer of approved quality & colour and setting lifting barrier for smooth operation complete and as directed.Note: Excavation & concrete work will be paid separately.				
77	185073	Above 8m and up to 10m long Lifting Barrier	Each	4.00	99572.00	398288.00
		Manufacturing, supplying and laying factory made CC block pavers for road surface of level crossings to RDSO Drg. No. M.00003, manufactured using 20mm size graded hard stone aggregates of approved quality over a well compacted sand bedding 50 thick with all contractor's cement, labour, tools/plant and curing with all lead & lift as per specifications and as directed by Engineer in-charge.				
78	186011	80mm thick blocks of M-35 grade for medium traffic.	Sqm	3000.00	1085.21	3255630.00

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		Insertion of temporary girder in place of formation involving dismantling of track, removal of ballast and neatly stacking for future use, excavation & installation of CC crib or wooden crib at both ends as per approved design in one or more traffic blocks, excavation for creating space for insertion of girder as required, placement of girder by contractor's Crane, tools & plants, filling of earth/sand filled bags at different stages as required, linking of track and connecting with the approaches, ballasting, boxing and packing approach sleepers to make track fit for 20 kmph to the satisfaction of Engineer in-charge. Note: 1. The CC Cribs as required and Temporary Girder shall be supplied by Railways at available location. 2. Transportation of Temporary Girder to site shall be paid separately under relevant item. 3. The charges for wooden sleepers/blocks required for matting and bearing as per approved design shall be paid extra as per relevant item. 4. In case bridge timber / channel sleepers are required to be laid on girder, the same shall be paid separately under relevant item.				
79	191022	RH /Temporary girder of length above 16.3m and up to 26.00 using Road crane capacity of 80 MT	Each	10.00	130491.53	1304915.30
		Removal of temporary girder, crib on both ends and placing temporary girder on crib / cess away from Railway track as directed by engineer at site under traffic block; filling of Railway's earth by ramming, pulling ballast from stack / adjoining track / same track, laying track, linking with approach track and packing of ballast for opening track at 20 kmph speed, boxing & dressing of cess, ballast profiling etc. Note: If earth is to be brought by contractor from outside, the same will be paid separately.				
80	191042	RH /Temporary girder of length above 16.3m and up to 26.00 using Road crane capacity of 80 MT	Each	10.00	144743.58	1447435.80
81	195060	Clearing waterway of major & minor bridges by removing weeds / shrubs / bushes, removing silt deposit, filling scours, if any up to 10 metre from centre of bridge on either side including disposing waste and silt away from waterway. Note: Rate is for a single line and per metre of bridge span.	Metre	1870.00	228.69	427650.30
		Hiring of machinery for minor miscellaneous works for short duration including operator/driver, fuel, lubricants and consumable. The contractor shall arrange all statutory permits as required by rules and regulations prevailing in the area of work. Payment shall be made for actual working hours at site.				
82	211201	JCB Backhoe Loaders 3DX Plus or similar with minimum 1.10 cum bucket capacity	Hour	872.00	864.02	753425.44
83	211202	Hydra or similar tyre mounted Pick-n-Carry crane of 12T capacity for misc. works of handling of material	Hour	500.00	964.49	482245.00
84	211203	Tractor with Trolley for local transportation or other misc. works.	Hour	500.00	167.24	83620.00
					Total	891049013.45
Item- 2	Earth Work-A1					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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1	011010	Preparation of foundation for Embankment by clearing, grubbing, stripping top soil (average 150 mm) and stacking beyond foundation area, thereafter ploughing and pulverizing 150 - 200 mm of top of soil with tractor trolley, mixing water to achieve OMC with water sprinkler or left for natural drying, as required, and compaction with vibratory roller of suitable capacity to achieve 98% MDD for laying first layer of soil for embankment construction.	100 Sqm	237440.00	488.56	1160036.86
2	011020	Benching of existing embankment manually in steps of 30 cm height for doubling/tripling works in running line to provide proper amalgamation between the old and new embankments as per RDSO latest Specifications and guidelines RDSO/2020//GE: IRS-0004 to the entire satisfaction of Engineer in-charge. The item includes uprooting and disposing of all the vegetation, all lift, descends, ascends and additional earthwork required for filling due to removal of earth in benching in existing bank. Note: (1) The benching Work shall be done for a maximum height of 0.90 m at any time based on the progress of earthwork starting from toe of the embankment. (2) Benchng work shall be certified and recorded before starting the earth work. (3) Unit for payment shall be km per metre height of the Bank. Height here means representative average height of the bank in the specified km taken from cross sectional measurements for earthwork. (4) Since the rate includes earthwork in steps, payment under this item shall be made after completion of earthwork to that level. (5) Cut soil from bank shall not be used in embankment construction and disposed off away from bank as per the direction of Engineer-in-charge.	Kilometre	42.00	113367.92	4761452.64
		Earthwork in filling in embankment, guide bunds, around buried type abutments, bridge gaps, trolley refuges, platforms etc. with contractor's own earth conforming to Soil Quality Class SQ1/SQ2/SQ3, after preparation of foundations as applicable, benching in existing banks wherever required, spreading in layers with motor grader, bringing the moisture content to OMC, mechanical compaction to specified density and dressing of bank to final profile as per RDSO Specifications: RDSO/2020//GE: IRS-0004 with latest correction slips. Note: 1) Foundation preparation, Benchng including additional earthwork on account of this, wherever required, shall be paid extra under relevant schedule item for benchng. 2) Payment for Earthwork under this item shall be made based on the cross section measurements calculated (i) with original ground profile of existing bank based on initial ground levels before doing benchng and (ii) final profile of the bank worked out with final levels as per prevailing guidelines.				
3	011032	Using Soil Class SQ2	cum	276015.00	227.72	62854135.80

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		Earthwork in cutting in formation, trolley refuges, side drains, level crossing approaches, platforms, catch water drains, diversion of nallah & finishing to required dimension and slopes to obtain a neat appearance to standard profile inclusive of all labour, materials, plant & machinery, leading all cut spoils either to make spoil dumps or for filling in embankment with leads within 2 km on either side of edge of the cutting(s) including all lifts, ascent, descent, loading, unloading, bailing & pumping out water, if required, clearance of site and all other works incidental thereto for completing the work as per RDSO Specification No. RDSO/2020/GE: IRS-0004 with latest updated correction slips and to the satisfaction of the Engineer-in-Charge. Note: (i) All usable earth arising from cut spoils shall be led into bank formation and Unusable spoils shall be dumped / stacked away from toe of embankment. (ii) All hard rock /and boulders not fit for filling will be stacked by the contractor and will be property of the Railways. (iii)Cut trees shall be property of Railways and to be deposited in the railway godown unless specified otherwise in the Conditions of Contract.				
4	012011	In all conditions and classifications of soil except rock	cum	134478.00	107.39	14441592.42
5	012012	Soft rock not requiring blasting	cum	27173.00	255.52	6943244.96
6	012014	In hard rock with hammer / chisel / pavement breaker etc. where blasting is not permitted due to special circumstances and if specifically ordered in writing including drilling and all incidental works thereto.	cum	26000.00	987.64	25678640.00
7	012015	Extra for leading of Cut spoil every one km beyond original lead of 2 km over item nos. 012011 to 012014	cum	20000.00	5.42	108400.00
8	012020	Foundation preparation in cutting - ploughing and pulverizing 15 cm of top of soil with tractor trolley, mixing water to achieve OMC with water sprinkler or allowing for natural drying, as required, and compaction with vibratory roller of suitable capacity to achieve 98% MDD for laying blanketing layer.	100 Sqm	84000.00	202.87	170410.80
9	012030	Mechanical manufacturing of blanketing material by using only hard and durable stone crushed in mechanical crusher to different gradations, wet mixing of the same in designed proportion in Pug mill or wet mix plant to have uniform gradation including all incidental transportation, laying over finished formation in uniform layer(s) with motor grader, compaction with suitable vibratory roller to specified density and finishing to correct profile, complete as per RDSO Specification No. RDSO/2020/GE: IRS-0004 with latest correction slips. Note: This item shall be used only when entire constituent of blanketing material is mechanically manufactured by crushing of hard and durable stone into desired gradation of designed proportion.	cum	130022.00	1728.03	224681916.66

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		Felling trees of girth (measured at a height of 1.0 m above ground level) including leading and stacking of material within 100m. Note : 1. When stumps are grubbed up in addition, the rates shall be doubled for trees cut and grubbed 2. Payment for grubbing shall only be made where specially ordered. 3. Grubbing shall be ordered only where it is essential to remove the stumps, including the roots, as per specification. 4. Grubbing shall include removal of roots of trees and saplings to a depth of 60cm below ground level or 30 cm below formation level or 15 cm below sub grade level, whichever is lower.				
10	013011	Girth over 30 cm and up to 60 cm	Each	500.00	376.63	188315.00
11	013012	Girth over 60 cm and up to 1.5m	Each	500.00	1042.52	521260.00
		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.				
12	013021	Turfing with sods, 10cm thick and 20cm square closely laid.	100 Sqm	25000.00	6513.75	1628437.50
		Providing portable fencing along running track where work is to be done in close vicinity of track, maintaining during execution of work and removing after completion of the work as per direction of the Engineer. Fencing shall consist of self supporting steel angles of size 50mm x 50mm x 6mm, 1.5m long provided with hooks etc. and embedded in CC 1:2:4 block of size 0.23m x 0.23m x 0.23m placed at c/c distance of 2m along track. 12mm dia rods in three horizontal layers shall be tack welded with angle posts. Note : Released material will be property of the contractor after completion of work. Cost of cement required for CC blocks shall be paid separately.				
13	013042	With provision of painting verticals & horizontals with red luminous paints / strips of 30cm each with a gap of 30 cm.	Metre	50000.00	136.03	6801500.00
		Provision of barricading with contractor's bamboos / ballies vertical post of 100mm dia. planted at every 2m interval, projecting at least 1.5m above ground level and driven firmly (minimum 0.5m) inside ground and including painting verticals & horizontals with red luminous paints / strips at alternative bay on barricade. Barricades shall be maintained through out the execution of the work and shall be removed in workman like manner on completion of the work only after instruction of Engineer in-Charge. Note: (1) 60% payment shall be made on provision of barricading at work-site and balance 40% payment after removal of barricades. (2) The released bamboos / ballies shall be the property of the Contractor.				
14	013051	With 3 horizontal bamboo / balli members of minimum 50mm dia. spaced equally	RM	3500.00	154.89	542115.00

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15	013080	Shoring with 'Z' section MS sheet piles side by side in all kinds of soil mechanically or manually as per approved drawing with contractor's own arrangement complete in all respects and removal of sheet piles after completion of the work as directed by engineer in-charge Note: Payment will be made as per actual driven length of pile.	Sqm	1200.00	1056.13	1267356.00
		Supplying, laying Non-woven Needle Punched and Mechanically or Thermally bonded type Geotextile for use as Separator/Filtration for Railway formation as per RDSO Specification No. RDSO/2018/GE:IRS-0004 - Part I made of Polypropylene / Polyethylene / Polyamide or combination there of having apparent opening size of less than or equal to 85 microns and elongation at failure more than 50% in both directions including transportation labour, lead & lift complete as directed by Engineer in-charge.				
16	013091	On top of subgrade or prepared subgrade before laying blanketing layer with minimum strengths in Grab test, Trapezoidal Tear test and Puncture test of 700N, 250 N and 1800 N respectively.	Sqm	10244.00	158.60	1624698.40
17	013092	Below the ballast and above blanket layer with minimum strengths in Grab test, Trapezoidal Tear test and Puncture test of 1750N, 800 N and 5800 N respectively.	Sqm	925.00	276.34	255614.50
					Total	353629126.54
Schedule	Schedule B-DSR-21					
Item- 1	DSR-2021					
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	7300	205.45	1499785
	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	21754	286.85	6240134.9
3	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	cum	19685	253.95	4999005.75
4	2.25A	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.	cum	4450	368.65	1640492.5
	2.26	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.				
5	2.26.1	All kinds of soil	cum	1000	104.5	104500

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6	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	1056	2161.2	2282227.2
	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 :				
7	4.1.2	1:1.5:3 (1 Cement: 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	271	7783.65	2109369.15
8	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	165	7365.15	1215249.75
9	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	2015	6833.4	13769301
10	4.1.6	1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources: 6 graded stone aggregate 40 mm nominal size derived from natural sources)	cum	2716	6670.25	18116399
11	4.1.8	1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	cum	1784	6326.05	11285673.2
	4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing:				
12	4.2.2	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	356	9793.75	3486575
13	4.2.3	1:2:4 (1 Cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	1802	9375.2	16894110.4
	4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :				
14	4.3.1	Foundations, footings, bases for columns	Sqm	1571	307.95	483789.45
15	4.3.2	Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.	Sqm	2409	669.55	1612945.95
	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 :				
16	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	1222	8364.2	10221052.4

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17	5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15 degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	125	10719.3	1339912.5
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
18	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	2600	307.95	800670
19	5.9.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	Sqm	1320	669.55	883806
20	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	7543	766.55	5782086.65
21	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	6485	608.35	3945149.75
22	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	3910	804.25	3144617.5
23	5.9.7	Stairs, (excluding landings) except spiral-staircases	Sqm	50	657.75	32887.5
	5.11	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured).				
24	5.11.1	Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)	Sqm	1856	319.25	592528
	5.12S	PRE-CAST RCC				
	5.18	Providing precast cement concrete Jali 1:2:4 (1 cement : 2 coarse sand(zone-III) : 4 graded stone aggregate 6mm nominal size), reinforced with 1.6 mm dia mild steel wire, including centering and shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement: 3 fine sand) etc. complete, excluding plastering of the jambs, sills and soffits.				
25	5.18.1	50 mm thick	Sqm	25	1580.9	39522.5
26	5.18.2	40 mm thick	Sqm	184	1430.3	263175.2
	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.				
27	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	380234	89.65	34087978.1
	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
28	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	357720	89.65	32069598
	5.33S	DESIGN MIX CONCRETE				

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	5.33	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 1.10 times of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.				
	5.33.1	All works upto plinth level				
29	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	997	8683.8	8657748.6
	5.33.2	All works above plinth level upto floor V level				
30	5.33.2.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	3831	10306.2	39483052.2
	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:				
31	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	1260	6658.25	8389395
	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 :				
32	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	2066	8288.35	17123731.1
	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 :				
33	6.12.2	cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm	2027	837.85	1698321.95
	7.0	STONE WORK				
	7.1S	RANDOM RUBBLE MASONRY				
	7.1	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with :				
34	7.1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	15595	6653.45	103760552.75
	7.2	Random rubble masonry with hard stone in superstructure above plinth level and upto floor five level, including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) at window sills, ceiling level and the like.				
35	7.2.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	1568	8275.7	12976297.6
	7.4	Extra for random rubble masonry with hard stone in :				
36	7.4.1	Square or rectangular pillars	cum	50	787.05	39352.5
37	7.4.2	Circular pillars	cum	3	2160.2	6480.6

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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)				
38	7.38.1.1	Granite stone of any colour and shade	Sqm	200	2675.7	535140
	8.0	CLADDING WORK				
	8.1	Marble work gang saw cut (polished and machine cut) of thickness 18 mm for wall lining (veneer work), backing filled with a grout of average 12 mm thick in cement mortar 1:3 (1 cement : 3 coarse sand), including pointing with white cement mortar 1:2 (1 white cement : 2 marble dust) with an admixture of pigment to match the marble shade (To be secured to the backing by means of cramps, which shall be paid for separately).				
	8.1.1	Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble.				
39	8.1.1.2	Area of slab over 0.50 sqm	Sqm	100	4998.1	499810
	8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing of edges to give high gloss finish etc. complete at all levels.				
	8.2.1	Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble				
40	8.2.1.2	Area of slab over 0.50 sqm	Sqm	100	2639.45	263945
	8.2.2	Granite stone slab of colour black, Cherry/Ruby red				
41	8.2.2.2	Area of slab over 0.50 sqm	Sqm	12	4425.35	53104.2
	8.3	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.				
42	8.3.1	Marble work	Metre	25	244.9	6122.5
43	8.3.2	Granite work	Metre	35	418.85	14659.75
44	8.5	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	Each	11	808.15	8889.65
	8.20S	STONE WORK DRY CLADDING				
45	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	100	1063.45	106345

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	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).				
46	9.1.1	Second class teak wood	cum	1	131576.95	131576.95
	9.16	Providing and fixing 25 mm thick shutters for cup board etc. :				
	9.17	Providing and fixing flat pressed 3 layer particle board medium density exterior grade (Grade I) or graded wood particle board IS : 3087 marked, to frame, backing or studding with screws etc. complete (Frames, backing or studding to be paid separately):				
47	9.17.2	18 mm thick	Sqm	50	869.1	43455
	9.18	Providing and fixing Pre-laminated flat pressed 3 layer (medium density) particle board or graded wood particle board IS : 3087 marked, with one side decorative and other side balancing lamination Grade I, Type II exterior grade IS : 12823 marked, in shelves with screws and fittings wherever required, edges to be painted with polyurethane primer (fittings to be paid separately).				
48	9.18.1	18 mm thick	Sqm	50	1089.3	54465
49	9.18.2	25 mm thick	Sqm	50	1501	75050
	9.20	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
50	9.20.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	102	3086.1	314782.2
	9.21	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:				
51	9.21.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	291	2015.75	586583.25
52	9.21.2	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	10	1881.95	18819.5
53	9.21.3	25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws	Sqm	10	1830	18300
54	9.23	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).	Sqm	20	401.4	8028
	9.40S	MISCELLANEOUS-WOOD WORK				
	9.47	Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated brackets :				
55	9.47.1	20 mm dia (heavy type)	Metre	50	152.65	7632.5

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	9.48	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.				
56	9.48.1	Fixed to steel windows by welding	Kg	100	181	18100
57	9.48.2	Fixed to openings /wooden frames with rawl plugs screws etc.	Kg	2102	197.7	415565.4
	9.72S	BRASS FITTINGS				
58	9.84	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	Each	26	856.3	22263.8
	9.88S	CHROMIUM PLATED BRASS FITTINGS				
	9.90	Providing and fixing special quality chromium plated brass cupboard locks with six levers of approved quality including necessary screws etc. complete.				
59	9.90.2	Size 50 mm	Each	10	286.3	2863
60	9.90.3	Size 65 mm	Each	10	321.1	3211
	9.95S	ANODISED ALUMINIUM FITTINGS (ALL FITTINGS SHALL BE ISI MARKED)				
	9.96	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete :				
61	9.96.1	300x16 mm	Each	62	260.3	16138.6
62	9.96.2	250x16 mm	Each	35	234.9	8221.5
	9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
63	9.97.1	300x10 mm	Each	114	117.65	13412.1
64	9.97.2	250x10 mm	Each	35	104.4	3654
	9.100	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
65	9.100.1	125 mm	Each	116	60.05	6965.8
66	9.100.2	100 mm	Each	60	53.25	3195
	9.101	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.				
67	9.101.1	Single rubber stopper	Each	10	35.5	355
68	9.101.2	Twin rubber stopper	Each	105	62.25	6536.25
	9.105S	GYPSUM BOARD PARTITIONS				
	9.114	Providing and fixing magnetic catcher of approved quality in cupboard / ward robe shutters, including fixing with necessary screws etc. complete.				
69	9.114.2	Double strip (horizontal type)	Each	84	34.15	2868.6

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70	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	198	408.25	80833.5
	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.				
71	9.120.2	30 mm thick pre laminated PVC door shutters	Sqm	68	2455.1	166946.8
	9.130	Providing and fixing cup board shutters with 25 mm thick veneered particle board IS : 3097 marked, exterior grade (Grade I), of approved make, including IInd class teak wood lipping of 25 mm wide x 12 mm thick with necessary screws and bright finished stainless steel piano hinges, complete as per direction of Engineer-in-Charge.				
72	9.130.1	With decorative veneering on one side and commercial veneering on other side	Sqm	61	1668.3	101766.3
	9.134	Providing and fixing wire gauge shutters using stainless steel grade 304 wire gauge with wire of dia 0.5 mm and average width of aperture 1.4 mm in both directions for doors, windows and clerestory windows with necessary screws :				
	9.134.1	35 mm thick shutters				
	9.134.1.2	With ISI marked stainless steel butt hinges of required size				
73	9.134.1.2.1	Second class teak wood	Sqm	107	4631.8	495602.6

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	9.147D	Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 +/- 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes, wire mesh and silicon sealant shall be paid separately). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.				
74	9.147D.2	Three track three panels sliding window with fly proof SS wire mesh (Two nos. glazed & one no. wire mesh panels) made of (small series) frame 92 x 44 mm & sash 32 x 60 mm both having wall thickness of 1.9 +/- 0.2 mm and single glazing bead of appropriate dimension (Area of window upto 1.75 sqm).	Sqm	68	10030.3	682060.4
	10.0	STEEL WORK				
75	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	22300	93.05	2075015
76	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	334371	111.95	37432833.45
	10.11	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D,F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment).				
77	10.11.2	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	Kg	2900	109.15	316535

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	10.14	Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm, pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge:				
	10.14.1	Profile B				
78	10.14.1.1	Fixing with adjustable lugs with split end tail to each jamb	Metre	683	444.5	303593.5
	10.14.2	Profile C				
79	10.14.2.1	Fixing with adjustable lugs with split end tail to each jamb	Metre	336	471.25	158340
	10.14.3	Profile E				
80	10.14.3.1	Fixing with adjustable lugs with split end tail to each jamb	Metre	145	511.4	74153
	10.16	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.				
81	10.16.3	Electric resistance or induction butt welded tubes	Kg	1258	140.85	177189.3
82	10.17	Providing and fixing M.S. fan clamp type I or II of 16 mm dia M.S. bar, bent to shape with hooked ends in R.C.C. slabs or beams during laying, including painting the exposed portion of loop, all as per standard design complete.	Each	4	185.95	743.8
83	10.19	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.	Kg	61109	88.5	5408146.5
84	10.20	Providing and fixing bolts including nuts and washers complete.	Kg	1118	140.15	156687.7
	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.				
85	10.25.1	In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete	Kg	32215	102.25	3293983.75
86	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	Kg	9099	142.3	1294787.7
87	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

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	10.30	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with :				
88	10.30.2	5.5 mm thick glass panes (weight not less than 12.50 kg/sqm)	Sqm	87	1243.5	108184.5
	11.0	FLOORING				
	11.3	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.				
89	11.3.1	40 mm thick with 20 mm nominal size stone aggregate	Sqm	68	545	37060
90	11.8	Extra for making chequers of approved pattern on cement concrete floors, steps, landing, pavements etc.	Sqm	25	69.3	1732.5
	11.16S	TILE FLOORING				
	11.20	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).				
91	11.20.1	Light shade pigment using white cement	Sqm	6600	1233.05	8138130
92	11.20.2	Medium shade pigment using 50% white cement 50% Grey cement	Sqm	434	1160	503440
	11.21	Providing and fixing 10 mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding, and joints filled with acid and/or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in- Charge.				
	11.21.1	In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)				
93	11.21.1.1	Acid and alkali resistant tile	Sqm	246	1515.45	372800.7
	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) :				
94	11.26.1	25 mm thick	Sqm	10098	1706.6	17233246.8
95	11.27	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	Sqm	200	2038.55	407710
	11.28S	SAND STONE FLOORING				
96	11.31	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.	Metre	100	157.35	15735
	11.37S	CERAMIC GLAZED TILES				
97	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	529	935.6	494932.4

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98	11.37A	Providing and fixing 1st quality ceramic glazed floor tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	Sqm	813	938.5	763000.5
	11.41S	VITRIFIED FLOOR TILES				
	11.41A	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.				
	11.41A.3	Glazed Vitrified tiles Matt/Antiskid finish of size				
99	11.41A.3.1	Size of Tile 600 x 600 mm	Sqm	939	1311.05	1231075.95
	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 :				
100	11.55.1	Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	Sqm	900	2589.9	2330910
	11.56	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.				
101	11.56.1	Polished Granite stone slab colour of Black, Cherry/Ruby Red or equivalent	Sqm	100	3908.8	390880
	12.0	ROOFING				
	12.1S	SHEET ROOFING				
	12.21	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :				
102	12.21.1	In 75x75 mm deep chase	Metre	693	260.2	180318.6

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103	12.22	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	Each	56	266.6	14929.6
	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.				
104	12.41.2	110 mm diameter	Metre	1631	319.75	521512.25
	12.42	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.				
	12.42.1	Coupler				
105	12.42.1.2	110 mm	Each	261	119.95	31306.95
	12.42.4	Single tee without door				
106	12.42.4.2	110x110x110 mm	Each	16	190.75	3052
	12.42.5	Bend 87.5 degrees				
107	12.42.5.2	110 mm bend	Each	261	132	34452
	12.42.6	Shoe (Plain)				
108	12.42.6.2	110 mm Shoe	Each	261	115.95	30262.95
	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.				
109	12.43.2	110 mm	Each	100	309.5	30950
110	12.44	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	Each	25	47.9	1197.5
	12.47	Providing & fixing UV stabilised fiberglass reinforced plastic sheet roofing up to any pitch, including fixing with polymer coated 'J' or 'L' hooks, bolts & nuts 8mm dia. G.I plain/bitumen washers complete but excluding the cost of purlins, rafters, trusses etc. The sheets shall be manufactured out of 2400 TEX panel rovigis incorporating minimum 0.3% ultra-violet stabiliser in resin system under approximately 2400 psi and hot cured. They shall be of uniform pigmentation and thickness without air pockets and shall conform to IS 10192 and IS 12866.The sheets shall be opaque or translucent, clear or pigmented, textured or smooth as specified.				
111	12.47.1	2 mm thick corrugated (2.5" or 4.2" or 6") or step-down (2" or 3" or 6") as specified	Sqm	450	1179.25	530662.5

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112	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	27745	671.55	18632154.75
	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 :				
113	12.51.1	Ridges plain (500 - 600mm)	Metre	796	450.6	358677.6
114	12.51.6	Gutter (600 mm over all girth)	Metre	477	1110.6	529756.2
	13.0	FINISHING				
	13.1S	CEMENT PLASTER (IN FINE SAND)				
	13.1	12 mm cement plaster of mix :				
115	13.1.1	1:4 (1 cement: 4 fine sand)	Sqm	100	294.85	29485
	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
116	13.2.1	1:4 (1 cement: 4 fine sand)	Sqm	100	339.7	33970
	13.3	20 mm cement plaster of mix :				
117	13.3.1	1:4 (1 cement: 4 fine sand)	Sqm	7815	402.15	3142802.25
	13.4S	CEMENT PLASTER (IN COARSE SAND)				
	13.4	12 mm cement plaster of mix :				
118	13.4.2	1:6 (1 cement: 6 coarse sand)	Sqm	323	294.35	95075.05
	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:				
119	13.5.1	1:4 (1 cement: 4 coarse sand)	Sqm	100	354.5	35450
120	13.5.2	1:6 (1 cement: 6 coarse sand)	Sqm	323	339.1	109529.3
	13.7S	CEMENT PLASTER WITH A FLOATING COAT OF NEAT CEMENT				
	13.9	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.				
121	13.9.2	20 mm cement plaster	Sqm	1517	507.85	770408.45
	13.16S	6MM CEMENT PLASTER				
	13.16	6 mm cement plaster of mix :				
122	13.16.1	1:3 (1 cement : 3 fine sand)	Sqm	100	253.05	25305
	13.25	Extra for plastering:				
123	13.26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	1000	214.3	214300
	13.33S	POINTING ON STONE WORK				
	13.33	Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) :				
124	13.33.1	Flush/ Ruled pointing	Sqm	29263	319.35	9345139.05
125	13.33.2	Raised and cut pointing	Sqm	7617	580.25	4419764.25

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	13.41	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade :				
126	13.41.1	New work (two or more coats) over and including water thinnable priming coat with cement primer	Sqm	11448	162.55	1860872.4
	13.43	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :				
127	13.43.1	Water thinnable cement primer	Sqm	63648	64.45	4102113.6
	13.44S	EXTERIOR FINISHING				
	13.44	Finishing walls with water proofing cement paint of required shade :				
128	13.44.1	New work (Two or more coats applied @ 3.84 kg/10 sqm)	Sqm	44882	97.6	4380483.2
	13.46	Finishing walls with Acrylic Smooth exterior paint of required shade :				
129	13.46.1	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	Sqm	4392	166.85	732805.2
	13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
130	13.48.2	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture	Sqm	486	144.9	70421.4
131	13.48.3	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture	Sqm	100	140.05	14005
	13.50	Applying priming coat:				
132	13.50.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works	Sqm	100	55.5	5550
133	13.50.4	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel work (second coat)	Sqm	100	29.75	2975
	13.52	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.				
134	13.52.2	On concrete work	Sqm	100	198.4	19840
	13.60	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :				
135	13.60.1	Two or more coats on new work	Sqm	18766	137.85	2586893.1
	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
136	13.61.1	Two or more coats on new work	Sqm	7345	131.45	965500.25
	13.63	Painting with aluminium paint of approved brand and manufacture to give an even shade .				
137	13.63.1	Two or more coats on new work	Sqm	4807	121.45	583810.15
138	13.71	Lettering with black Japan paint of approved brand and manufacture	per letter per cm height	196400	5.05	991820

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139	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	9905	123.85	1226734.25
	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.				
140	15.2.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	cum	2310	2007.1	4636401
141	15.2.2	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	cum	50	1239.6	61980
	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.				
142	15.7.4	In cement mortar	cum	500	1698.45	849225
	15.9	Demolishing stone rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge :				
143	15.9.1	In lime mortar	cum	550	954.8	525140
144	15.9.2	In cement mortar	cum	1500	2027.1	3040650
145	15.19	Dismantling steel work manually/ by mechanical means in built up sections without dismembering and stacking within 50 metres lead as per direction of Engineer-in-charge.	Kg	25000	3.2	80000
146	15.58	Demolishing R.C.C. work by mechanical means and stockpiling at designated locations and disposal of dismantled materials up to a lead of 1 kilometre, stacking serviceable and unserviceable material separately including cutting reinforcement bars.	cum	500	2328.55	1164275
	16.0	ROAD WORK				
	16.1S	ROADS				
147	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	15285	180.5	2758942.5
148	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	2186	20.55	44922.3
	16.3	Supplying and stacking at site.				
149	16.3.1	90 mm to 45 mm size stone aggregate	cum	3300	1937.6	6394080
150	16.3.2	63 mm to 45 mm size stone aggregate	cum	12562	1624.5	20406969
151	16.3.10	Moorum	cum	286	888.3	254053.8

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152	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	15467	865.8	13391328.6
	16.6	Supplying, stacking and Spreading 6 mm thick red bajri, watering and rolling complete including preparation of the surface and rolling.				
153	16.6.1	With road roller/ hand roller	Sqm	100	21.8	2180
	16.15S	FENCING				
	16.15	Supplying at site :				
154	16.15.1	R.C.C. Standards post/ struts/rails/ pales of mix 1:1.5:3 (1 cement : 1.5 coarsesand : 3 graded stone aggregate 12.5 mm nominal size) with wooden plugs or 6mm bar nibs wherever required as per direction of Engineer-in- charge (cost of earth works in excavation, concrete works in foundation to be paid separately).	cum	125	28603	3575375
155	16.16	Supplying and fixing turn buckles and straining bolts for barbed wire fencing.	Set	125	243.75	30468.75
	16.17	Fencing with R.C.C. post placed at required distance, embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post one side only, provided with horizontal lines and two diagonals of barbed wire weighing 9.38 kg per 100 metres (minimum), between the two posts fitted and fixed with G.I. staples on wooden plugs or G.I. binding wire tied to 6 mm bar nibs fixed while casting the post (cost of R.C.C. posts, struts, earth work and concrete to be paid for separately) :- Payment to be made per metre cost of total length of barbed wire used.				
156	16.17.1	With G.I. barbed wire	Metre	500	12.45	6225
157	16.20	Welded steel wire fabric fencing with posts of specified material and of standard design placed and embedded in cement concrete blocks 45x45x 60 cm of mix 1:5:10 (1 cement:5 fine sand : 10 graded stone aggregate 40 mm nominal size), every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and struts embedded in cement concrete blocks 70x45x50 cm of the same mix, provided with welded steel wire fabric fixed between the posts fitted and fixed with G.I. staples on wooden plugs or tied to 6 mm bar nibs with G.I. binding wire (cost of posts, welded steel wire fabric, painting, earth work in excavation and concrete to be paid for separately).	Sqm	100	55	5500
	16.25S	SURFACE DRESSING				
	16.28	Surface dressing one coat on new surface with bitumen of specified grade at a rate of 1.95 kg/sqm of surface area with 1.5 cum of stone chippings 13.2 mm nominal size per 100 sqm of road surface, including consolidation with road roller of 6 to 8 tonne capacity , etc. complete :				
158	16.28.1	Using bitumen emulsion (minimum 50% bitumen content- RS grade conforming to IS : 8887)	Sqm	500	169.8	84900
	16.30S	PREMIX CARPET				

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	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 :				
159	16.30.1	On W.B.M. @ 0.75 Kg / sqm	Sqm	375	45.2	16950
	16.31	Providing and applying tack coat using bitumen emulsion conforming to IS:8887, using emulsion pressure distributor including preparing the surface & cleaning with mechanical broom.				
	16.31.1	With rapid setting bitumen emulsion				
160	16.31.1.1	On W.B.M / W.M.M. @ 0.4kg/sqm	Sqm	1000	11.6	11600
161	16.31.1.2	On bituminous surface @ 0.25kg/sqm	Sqm	1000	7.9	7900
	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).				
162	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	1000	227	227000
	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 :				
163	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	2500	414.2	1035500
	16.38	2.5 cm thick bitumastic sheet with hot bitumen of approved quality, using stone chippings (60% with 12.5 mm nominal size and 40% with 10 mm nominal size) @ 1.65 cum per 100 sqm and coarse sand @ 1.65 cum per 100 sqm of road surface and with bitumen @ 56 kg/cum of stone chippings and @ 128 kg/cum of sand over a tack coat with hot straight run bitumen, including consolidation with road roller of 8 to 10 tonne etc. complete. (tack coat to be paid separately) :				
164	16.38.1	With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt	Sqm	100	285	28500

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	16.39	4 cm thick bitumastic sheet with hot bitumen of approved quality, using stone chippings (60% with 12.5 mm nominal size and 40% with 10 mm nominal size) @ 2.60 cum per 100 sqm and coarse sand @ 2.60 cum per 100 sqm of road surface and with bitumen @ 56 kg/cum of stone chippings and @ 128 kg/cum of sand over a tack coat with hot straight run bitumen, including consolidation with road roller of 8 to 10 tonne etc. complete. (tack coat to be paid separately) :				
165	16.39.3	With Refinery Modified Bitumen CRMB 55 conforming to IRC: SP : 53	Sqm	2500	450.2	1125500
	16.40S	SEAL COAT				
166	16.40	Providing and laying seal coat of premixed fine aggregate (passing 2.36 mm and retained on 180 micron sieve) with bitumen using 128 kg of bitumen of grade VG - 10 bitumen per cum of fine aggregate and 0.60 cum of fine aggregate per 100 sqm of road surface, including rolling and finishing with road roller all complete.	Sqm	1000	79.85	79850
	16.42S	CONCRETE PAVEMENTS				
167	16.42	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size) in pavements, laid to required slope and camber in panels as required including consolidation finishing and tamping complete.	cum	8487	7399.2	62797010.4
	16.43	Providing and laying design mix cement concrete of M-30 grade, in roads/ taxi tracks/ runways, using cement content as per design mix, using coarse sand and graded stone aggregate of 40 mm nominal size in appropriate proportions as per approved & specified design criteria, providing dowel bars with sleeve/ tie bars wherever required, laying at site, spreading and compacting mechanically by using needle and surface vibrators, levelling to required slope/ camber, finishing with required texture, including steel form work with sturdy M.S. channel sections, curing, making provision for contraction/ expansion, construction & longitudinal joints (10 mm wide x 50 mm deep) by groove cutting machine, providing and filling joints with approved joint filler and sealants, complete all as per direction of Engineer-in-charge (Item of joint fillers, sealants, dowel bars with sleeve/ tie bars to be paid separately).				
168	16.43.1	Cement concrete prepared with batch mixing machine	cum	3645	9492.9	34601620.5
	16.46	Providing and filling in position rubberized bitumen hot sealing compound for sealing of expansion joints in roads / pavements all complete as per direction of the Engineer-in-Charge.				
169	16.46.1	Using grade 'A' sealing compound conforming to IS: 1834.	per cm depth per cm width per metre length	41604	7.5	312030
	16.49S	MISCELLANEOUS				

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170	16.62	Providing and applying 2.5 mm thick road marking strips (retro- reflective) of specified shade/ colour using hot thermoplastic material by fully/ semi automatic thermoplastic paint applicator machine fitted with profile shoe, glass beads dispenser, propane tank heater and profile shoe heater, driven by experienced operator on road surface including cost of material, labour, T&P, cleaning the road surface of all dirt, seals, oil, grease and foreign material etc. complete as per direction of Engineer-in-charge and accordance with applicable specifications.	Sqm	1000	623.8	623800
171	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	148	8613.55	1274805.4
172	16.75	Providing and laying C.C. pavement of mix M-25 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator , vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-in-charge. (The panel shuttering work shall be paid for separately). (Note:- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/ recoverable separately).	cum	8347	8277.55	69092709.85
173	16.90	Providing and laying tactile tile (for vision impaired persons as per standards) of size 300x300x9.8mm having with water absorption less than 0.5% and conforming to IS:15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (1 cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-Charge.	Sqm	1440	1719	2475360
	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.				
174	16.91.1	60mm thick cement concrete paver block of M-35 grade with approved colour, design & pattern.	Sqm	640	932.35	596704

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175	16.91.2	80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.	Sqm	500	1011.2	505600
	17.0	SANITARY INSTALLATIONS				
	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:				
176	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	28	5781.35	161877.8
	17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :				
177	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	Each	15	5540.55	83108.25
	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:				
178	17.7.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	Each	2	2275	4550
179	17.7.4	White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap	Each	33	1679.6	55426.8
180	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
181	17.8	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings.	Each	33	1500.05	49501.65
	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 :				
	17.10.2	Kitchen sink without drain board				
182	17.10.2.1	610x510 mm bowl depth 200 mm	Each	1	4274.4	4274.4
183	17.10.2.2	610x460 mm bowl depth 200 mm	Each	2	3337.85	6675.7
184	17.23	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm or 340x410x265 mm sizes respectively.	Each	12	1382.3	16587.6
	17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
	17.28.2	Flexible pipe				
185	17.28.2.1	32 mm dia	Each	33	104.35	3443.55
186	17.29	Providing and fixing 100 mm sand cast Iron grating for gully trap.	Each	25	45.25	1131.25

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187	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	29	1411.15	40923.35
	17.34	Providing and fixing toilet paper holder :				
188	17.34.1	C.P. brass	Each	11	680.8	7488.8
189	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	29	146.3	4242.7
190	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	29	204.7	5936.3
	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.				
191	17.73.2	600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.	Each	11	600.35	6603.85
	18.0	WATER SUPPLY				
	18.7S	C.P.V.C. PIPES				
	18.7	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.-Internal work - Exposed on wall				
192	18.7.1	15 mm nominal dia Pipes	Metre	40	255.9	10236
193	18.7.3	25 mm nominal dia Pipes	Metre	181	408.55	73947.55
	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.				
194	18.8.1	15 mm nominal dia Pipes	Metre	232	441.15	102346.8
195	18.8.2	20 mm nominal dia Pipes	Metre	840	513.75	431550
196	18.8.3	25 mm nominal dia Pipes	Metre	4868	626.05	3047611.4
	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				
197	18.9.1	15 mm nominal dia Pipes	Metre	50	221.35	11067.5
198	18.9.3	25 mm nominal dia Pipes	Metre	2312	370.65	856942.8
199	18.9.4	32 mm nominal dia Pipes	Metre	50	435.05	21752.5

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200	18.9.6	50 mm nominal dia Pipes	Metre	50	811.85	40592.5
	18.12	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.- External work				
201	18.12.3	25 mm dia nominal bore	Metre	175	417.95	73141.25
202	18.12.6	50 mm dia nominal bore	Metre	850	654.2	556070
203	18.12.8	80 mm dia nominal bore	Metre	4900	919.1	4503590
	18.15S	BRASS FITTINGS				
	18.16	Providing and fixing brass stop cock of approved quality :				
204	18.16.2	20 mm nominal bore	Each	25	327.95	8198.75
	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
205	18.17.1	25 mm nominal bore	Each	65	532.35	34602.75
206	18.17.4	50 mm nominal bore	Each	16	878.25	14052
	18.19	Providing and fixing gun metal non- return valve of approved quality (screwed end) :				
	18.19.1	25 mm nominal bore				
207	18.19.1.1	Horizontal	Each	162	506.65	82077.3
	18.21	Providing and fixing uplasticised PVC connection pipe with brass unions :				
	18.22	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :				
208	18.22.1	100 mm diameter	Each	5	166.35	831.75
209	18.22.2	150 mm diameter	Each	4	190.1	760.4
	18.31S	C.I. SLUICE VALVES/ FIRE HYDRANTS & FIXTURES				
210	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	14280	9.7	138516
	18.49S	C.P. BRASS FITTINGS				
	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				
211	18.49.1	15 mm nominal bore	Each	33	434.2	14328.6
	18.50	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.				
212	18.50.1	15 mm nominal bore	Each	4	715.05	2860.2
	18.51	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.				
213	18.51.1	15 mm nominal bore	Each	45	708.4	31878
	18.52	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.				
214	18.52.1	15 mm nominal bore	Each	65	594.75	38658.75
	18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931				
215	18.53.1	15mm nominal bore	Each	164	500.35	82057.4
	18.54S	PTMT FITTINGS				
	18.54	Providing and fixing PTMT bib cock of approved quality and colour.				
216	18.54.2	15 mm nominal bore, 122mm long, weighing not less than 99 gms	Each	10	143.3	1433

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	18.57	Providing and fixing PTMT, push cock of approved quality and colour.				
217	18.57.1	15 mm nominal bore, 98 mm long, weighing not less than 75 gms	Each	60	96.45	5787
	19.0	DRAINAGE				
	19.1S	STONE WARE PIPES AND FITTINGS				
	19.1	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :				
218	19.1.1	100 mm diameter	Metre	100	375.75	37575
219	19.1.2	150 mm diameter	Metre	1538	591.4	909573.2
	19.2	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design :				
220	19.2.1	100 mm diameter S.W. pipe	Metre	100	895.5	89550
221	19.2.2	150 mm diameter S.W. pipe	Metre	1538	1095.15	1684340.7
	19.4	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design:				
	19.6	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :				
222	19.6.1	100 mm dia. R.C.C. pipe	Metre	25	447.25	11181.25
223	19.6.4	300 mm dia. R.C.C. pipe	Metre	128	902.05	115462.4
224	19.6.7	600 mm dia. R.C.C. pipe	Metre	170	2098.1	356677
225	19.6.11	1000 mm dia. R.C.C. pipe	Metre	10	5007	50070
	19.7	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand (Zone-III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :				
	19.7.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :				
226	19.7.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	11	11687.1	128558.1

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	19.30	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 fine sand : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 mix(1Cement:5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design:				
	19.30.1	Inside dimensions 455x610 mm and 45 cm deep for single pipe line :				
227	19.30.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	91	6431.3	585248.3
	19.31	Extra for depth beyond 45 cm of brick masonry chamber :				
	19.32	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design.				
228	19.32.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	51	28029.15	1429486.65
229	19.33	Constructing soak pit 1.20x1.20x1.20 m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	Each	8	2940.2	23521.6
	19.35	Providing and laying Non Pressure NP-3 class (Medium duty) R.C.C. pipes including collars/spigot jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete				
230	19.35.1	450 mm dia RCC pipes.	Metre	10	2385.5	23855
231	19.35.2	600 mm dia RCC pipes.	Metre	10	3051.55	30515.5
	19.36	Providing and laying Non Pressure NP-4 class (Heavy duty) R.C.C. pipes including collars/spigot jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete				
232	19.36.2	600 mm dia RCC pipes.	Metre	270	3519.85	950359.5
	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				

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233	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	238	433.95	103280.1
	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)				
234	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	158	531.8	84024.4
	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):				
235	21.3.2	With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm)	Sqm	100	1325.55	132555
	21.7	Providing and fixing machine moulded aluminium covering of approved pattern & design, made out of machine cut aluminium sheet and machine holed for receiving dash fastener, over expansion joints on vertical surfaces/ceiling floors, the fixing on plate in one row on one side of joint only shall be done with stainless steel dash fasteners of 8 mm dia and 75 mm long bolt including providing aluminium washers 2 mm thick & 15 mm dia , at a staggered pitch of 200mm centre to centre including drilling holes in the receiving surface and providing expandable plastic sleeves in holes etc. complete as per direction of Engineer-in-charge.				
236	21.7.1	Anodised aluminium sheet 2.5mm thick (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	106	603.3	63949.8
	21.8	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete.				
237	21.8.1	Upto 5mm depth and 5 mm width	Metre	158	85.25	13469.5
	22.0	WATER PROOFING				
	22.14	Grading roof for water proofing treatment with				
238	22.14.1	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	cum	369	7510.75	2771466.75
	23.0	RAIN WATER HARVESTING & TUBEWELLS				
	23.1	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge, upto 90 metre depth below ground level.				
	23.1.1	All types of soil				
239	23.1.1.1	300 mm dia	Metre	2730	592.05	1616296.5
	23.1.2	Rocky strata including Boulders				
240	23.1.2.1	300 mm dia	Metre	1150	1416.3	1628745

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	23.2	Boring/drilling bore well of required dia for casing/strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, beyond 90 metre & upto 150 metre depth below ground level.				
	23.2.1	All types of soil				
241	23.2.1.1	300 mm dia	Metre	1770	690.7	1222539
	23.2.2	Rocky strata including Boulders				
242	23.2.2.1	300 mm dia	Metre	1350	1561.7	2108295
	23.10	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/plain ended casing pipes of required dia, conforming to IS: 4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer-in-charge.				
243	23.10.3	200 mm nominal size dia having minimum wall thickness 5.40 mm	Metre	2280	2082.1	4747188
	23.11	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS: 8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer -in-charge.				
244	23.11.3	200 mm nominal size dia	Metre	810	2194.85	1777828.5
245	23.12	Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water samples & getting tested in approved laboratory, i/c disinfection of tubewell, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge.	Hour	160	916.8	146688
	23.14	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts & nuts of required size complete.				
246	23.14.3	200 mm clamp	Each	25	1827	45675
	23.15	Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS:2800 (part I).				
247	23.15.3	200 mm dia	Each	5	308.55	1542.75
					Total	781220043.45

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Schedule C- DSR-2020 Horticulture						
Item- 1 DSR-2020 Horticulture						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	2.0	HORTICUTURE 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	2000	515.6	1031200
	2.4	Supplying and stacking at site dump manure from approved source, including carriage upto 5 km lead complete (manure measured in stacks will be reduced by 8% for payment) :				
2	2.4.1	Screened through sieve of I.S. designation 20 mm	cum	200	254.15	50830
	2.14	Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%) flooding with water, dressing including removal of rubbish and surplus earth, if any, with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately)				
3	2.14.2	Holes 90 cm dia, and 90 cm deep	Each	250	143.1	35775
4	2.14.3	Holes 60 cm dia, and 60 cm deep	Each	250	43.75	10937.5
5	2.16	Providing and fixing M.S. flat iron tree guard 60 cm dia and 2 m high, above ground consisting 4 nos 25 x 6 mm, 2.25 m long and 8 nos 25 x 3 mm 2 m long verticals M.S. flats, riveted to 3 nos 25 x 6 mm M.S. flat iron rings in two halves, fixing together at site with required six numbers of 8 mm dia and 30 mm long bolts, including painting two coats with synthetic enamel paint of approved brand and manufacture over a coat of primer. One name plate of 1 mm thick M.S. sheet of size 250x100 mm shall be welded to the tree guard near the middle height and lettered CPWD / PWD/ any other approved name. The tree guard shall be suitably fixed to the ground by embedding four legs of tree guard in pits of suitable dia and to a depth of 25 cm, refilling the pits with soil and ramming, complete in all respect as per satisfaction and direction of Officer-in-charge.	Each	250	4533.1	1133275
	2.19	Edging with bricks laid dry length wise, including required excavation, refilling, consolidating with hand packing and spreading surplus earth neatly within a lead of 50 m :				
6	2.19.1	Common burnt clay F.P.S (non modular) bricks of Class designation 7.5	Metre	250	396.9	99225
	2.29	Providing Circular Cement Concrete pots of specified size, cast with cement concrete of nominal mix 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 6 mm nominal size), reinforced with 7 Nos (3 nos horizontal & 4 nos vertical " U " shape) M.S. wires of 3.5 mm dia as per design, including required form work, finishing with cement punning on exposed surface, curing for specified period and stacking in required rows & height, all complete as per direction of Officer-in-charge.				
7	2.29.1	Top inside dia 35 cm, outer bottom dia 25 cm, total height 35 cm with wall thickness of 25.4 mm	Each	250	225.05	56262.5

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8	2.34	Providing & laying Selection no. 1 doob grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and then rolling the surface with light roller make the surface smoothen and light watering the same maintenance for 30 days or more till the grass establish properly,as per direction of officer in charge	Sqm	500	87.5	43750
	2.42	Complete maintenance of trees (Out side garden features), jobs like making of basin at regular interval i/c watering, weeding, pruning & application of fertilizer etc, (excluding the cost of material which shall be supplied by the department and other T & P material/articles shall be provided by the contractor) and as per direction of officer in charge.				
9	2.42.3	Trees for 1200 no (beyond 8 year Slow & beyond 6 Fast growing group)	Per Plant/per Month	500	15.85	7925
10	2.53	Providing and wartering of irrigation water through water tanker of Horticulture features i.e. lawn, tree, shrubs, hedge/edge, ground cover etc. at the site of work. Water tanker having 5000 lit. capacity with one labour for watering i/c cost of water, filling of tanker, wartering at site with all leads and lifts as per direction of officer-in-charge.	Per Trip	500	932.95	466475
	7.0	TREE PLANTS				
11	7.5	Providing and stacking of Azadirachta indica (Neem) of height 120-130cm in big polybag of size 25 cm as per direction of the officer-in-charge.	Each	500	65	32500
12	7.6	Providing and stacking of Bassia latifolia (Mahua) of height 90-105 cm. in big polybag of size 25 cm as per direction of the officer-in-charge.	Each	500	65	32500
13	7.8	Providing and stacking of Bauhinia purpurea (Kachnar) of height 150-165 cm. in big poly bags of size 25 cm as per direction of the officer-in-charge.	Each	500	50	25000
14	7.16	Providing and stacking of Cassia fistula (Amaltash) of height 120-135 cm. in big poly bags of size 25 cm as per direction of the officer-in-charge.	Each	500	65	32500
15	7.24	Providing and stacking of Delonix regia (Gulmohar) of height 150-165 cm. in big poly bags of size 25 cm as per direction of the officer-in-charge.v	Each	500	60	30000
16	7.36	Providing and stacking of Ficus religiosa (Peepal) of height 150-165 cm. in big poly bags of size 30 cm as per direction of the officer-in-charge.	Each	500	65	32500
	11.0	MEDICINAL PLANTS				
17	11.12	Providing and Stacking of Giloy well developed in poly bag of size 20cm as per direction of the officer-in-charge.	Each	500	20	10000
					Total	3130655.00
Schedule	Schedule D-Non Schedule Item					
Item- 3	Placement of precast reinforced cement concrete components (RCC box/U-Type/L-Type segments of retaining walls) with the help of suitable capacity road crane at desired location during traffic block of short duration with all contractor's labour, tools , material, cranes, machinery preparation of surface including cost of filling of joints by epoxy mortar, cutting of lifting hooks by gas cutting, all lead, lift, taxes etc complete in all respect.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	NS-3A RCC box/U-type/L-type segments requiring traffic block or in closed sections	MT	1000.00	3714.00	3714000.00

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2	2	NS-3B RCC box/U-type/L-type segments not requiring traffic block or in closed sections	MT	6697.00	1734.00	11612598.00
					Total	15326598.00

4. ELIGIBILITY CONDITIONS

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

Special Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	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-VIII, along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by Audited Balance Sheet.	No	No	Allowed (Mandatory)

Special Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Technical Eligibility Criteria :- (a)The tenderer must have successfully completed or substantially completed any of the following during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: (i)Three similar works, each costing not less than the amount equal to 30% of advertised value of the tender, OR (ii)Two similar works, each costing not less than the amount equal to 40% of advertised value of the tender, OR (iii)One similar work, each costing not less than the amount equal to 60% of advertised value of the tender. (b)(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 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.	No	No	Allowed (Mandatory)
1.1	Similar nature of work- Civil/composite work involving construction of formation (Cutting/filling/blanketing) and/or construction of bridges.	No	No	Not Allowed

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

S.No.	Description
1	I/we the tenderer (s) am/are signing this document after carefully reading the contents.
2	I/We the tenderer(s) also accept all the conditions of the tender and have signed all the pages in confirmation thereof.
3	I/we hereby declare that I/we have downloaded the tender documents from Indian Railway website www.ireps.gov.in . I/we have verified the content of the document from the website and there is no addition, no deletion or no alteration to the content of the tender document. In case of any discrepancy noticed at any stage i.e. evaluation of tenders, execution of work or final payment of the contract, the master copy available with the railway Administration shall be final and binding upon me/us.
4	I/we declare and certify that I/we have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements.
5	I/We also understand that my/our offer will be evaluated based on the documents/credentials submitted along with the offer and same shall be binding upon me/us.
6	I/We declare that the information and documents submitted along with the tender by me/us are correct and I/we are fully responsible for the correctness of the information and documents, submitted by us.
7	I/we certify that I/we the tenderer(s) is/are not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of submission of bids, either in individual capacity or as a HUF/ member of the partnership firm/LLP/JV/Society/Trust.

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8	I/we understand that if the contents of the certificate submitted by us are found to be forged/false at any time during process for evaluation of tenders, it shall lead to forfeiture of the Bid Security and may also lead to any other action provided in the contract including banning of business for a period of upto two year. Further, I/we and all my/our constituents understand that my/our offer shall be summarily rejected.
9	I/we also understand that if the contents of the certificate submitted by us are found to be false/forged at any time after the award of the contract, it will lead to termination of the contract, along with forfeiture of Bid Security/Security Deposit and Performance guarantee and may also lead to any other action provided in the contract including banning of business for a period of upto two year.
10	I/We have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India and certify that I am/We are not from such a country or, if from such a country, have been registered with the competent Authority. I/We hereby certify that I/we fulfil all the requirements in this regard and am/are eligible to be considered (evidence of valid registration by the competent authority is enclosed)

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

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

5. COMPLIANCE

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

Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Please enter the percentage of local content in the material being offered. Please enter 0 for fully imported items, and 100 for fully indigenous items. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in the tender conditions.	No	Yes	Allowed (Optional)
2	The tender document cost as described in the NIT header will be submitted by the tenderer only through net banking or payment gateway only. Note- Fixed deposit receipt (FDR) will not be accepted as TDC for tenders invited on IREPS (e- tender portal).	No	No	Allowed (Mandatory)
3	The EMD cost as described in the NIT header will be submitted by the tenderer only through net banking or payment gateway only. Note- Fixed deposit receipt (FDR) will not be accepted as EMD for tenders invited on IREPS (e- tender portal).	No	No	Allowed (Mandatory)
4	Please enter the percentage of local content in the material being offered. Please enter 0 for fully imported items, and 100 for fully indigenous items. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in the tender conditions.	No	Yes	Allowed (Optional)

Special Conditions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The initial e-Reverse Auction (e-RA) period as mentioed in the Clause no. 25.2.0 (b), Annexure C, Para 2 of the "GENERAL INSTRUCTIONS" of Tender Document will be 2 days. (Applicable to the works and service tenders of value more than Rs. 50 crore.)	No	No	Not Allowed
2	The auto extension period as mentioed in the Clause no. 25.2.0 (b), Annexure C, Para 2 of the "GENERAL INSTRUCTIONS" of Tender Document will be 10 minutes.(Applicable to the works and service tenders of value more than Rs. 50 crore.)	No	No	Not Allowed
3	The Minimum Decrement as mentioed in the Clause no. 25.2.0 (b), Annexure C, Para 2 of the "GENERAL INSTRUCTIONS" of Tender Document will be 0.25% value of the last successful Bid. (Applicable to the works and service tenders of value more than Rs.50 crore.)	No	No	Not Allowed

Technical-Compliances

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S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The tenderer shall submit the Firms's detail as per Annexure I. (Mandatory for all firms)	No	No	Allowed (Mandatory)
2	The tenderer shall submit the copy of certificate as per proforma given in Annexure II. (Mandatory for all firms)	No	No	Allowed (Mandatory)
3	The tenderer shall submit the Attested copy of Completion Certificate of works mentioned in Standard Technical Criteria under eligibility criteria above from the Organizations with whom they worked as per proforma given in Annexure-IV-A or IV-B (If the work is awarded by Concessionaire) or IV- C (if the work is awarded by Public listed Company) as applicable. (Mandatory for all firms). In case of JV firm, these details are also required for all the members of the JV firm.	No	No	Allowed (Mandatory)
4	Details of Average Annual turnover of the public listed company in last three financial years excluding current financial year (should be 500 Cr and above) issued by Chartered Accountant. These details need to be submitted as per the proforma of Annexure VIII (Mandatory in case of completion certificate issued by public listed company as per annexure IV- C)	Yes	Yes	Allowed (Mandatory)
5	The copy of the documents regarding listing in the National stock exchange or Bombay stock exchange with details of status of listing as on date of opening of tender, duly self-attested. (Mandatory in case of completion certificate issued by public listed company as per annexure IV-C)	Yes	Yes	Allowed (Mandatory)
6	The copy of the document of incorporation/ registration of the Public listed company (should be at least 5 years prior to date of opening of tender), duly self-attested. (Mandatory in case of completion certificate issued by public listed company as per annexure IV- C)	Yes	Yes	Allowed (Mandatory)
7	The copy of document regarding Person Authorized by the Public listed Company to issue such certificate, duly self-attested. (Mandatory in case of completion certificate issued by public listed company as per annexure IV- C)	Yes	Yes	Allowed (Mandatory)
8	Tenderer shall also submit the relevant copy of work order, bill of quantities bill wise details of payment received duly certified by Chartered Accountant, TDS certificates for all payments received a copy of final/last bill paid by the public listed company in support of above work experience certificate duly self-attested.(Mandatory in case of completion certificate issued by public listed company as per annexure IV- C)	Yes	Yes	Allowed (Mandatory)
9	The tenderer shall submit the self attested copy of the PERMANENT ACCOUNT NO. issued by the Income Tax Department.	Yes	Yes	Allowed (Optional)
10	The tenderer shall submit the test report of the stone ballast conforming to railways specifications as mentioned in the general instructions of tender document. (This condition is mandatory and will be applicable only for the tenders of supply of ballast as specified "as required" in tender document.In case of non-compliance of this condition by the tenderer in ballast tenders only, the offer of the same will be summarily rejected.)	Yes	Yes	Allowed (Optional)
11	The tenderer should submit the List of similar nature of works physically completed in all respects during last 7 years , ending last day of month previous to one in which tender is invited, directly awarded by Govt./Semi Govt./Public sector undertaking / Autonomous bodies /Municipal bodies/ Railways Siding owners/Concessionaire (to whom the work is awarded by Indian Railways/ CPWD/ NHAI/PWD/State Road Development Corporation on PPP/DBFOT or any other mode). as per proforma given in Annexure-III. In case of JV firm, these details are also required for all the members of the JV firm.	Yes	Yes	Allowed (Mandatory)
12	In case of composite work, having distinct components and having separate schedule for each component having value more than 2 crores, tenderer should submit a details of work of similar nature successfully completed during last 7 years , ending last day of month previous to the one in which tender invited and detailed in Annexure-III (Bifurcated as per components of tender schedule), as per proforma given in Annexure-III-A. (Mandatory in case of tender for composite nature of work). In case of JV firm, these details are also required for all the members of the JV firm.	Yes	Yes	Allowed (Mandatory)

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13	Tenderer should submit a statement showing maximum value of construction work executed and payment received in any one financial year during the current and last three financial years immediately preceding the current financial year, upto date of opening of tender taking into account the completed as well as work in progress as per Annexure-XIX to evaluate bid capacity of the tenderer (Mandatory in case of tender value more than Rs. 20 crore)	Yes	Yes	Allowed (Optional)
14	The tenderer should submit the List of works on hand, existing commitments and balance amount of ongoing works as per proforma given in 'Annexure-V to evaluate bid capacity of the tenderer (Mandatory for tender value more than Rs. 20 crores)	Yes	Yes	Allowed (Optional)
15	The tenderer should submit the List of plants & Machinery available on hand (own) and proposed to be inducted (own and hired to be given separately) for the subject work in Annexure-VI.	Yes	Yes	Allowed (Optional)
16	The tenderer should submit the List of Personnel, Organization available on hand and proposed to be engaged for the subject work in Annexure -VII.	Yes	Yes	Allowed (Optional)
17	The tenderer should submit the details of contractual payments received in the previous three financial years and the current financial year upto the date of opening of tender. The tenderers shall submit Certificates to this effect which may be an attested Certificate from the concerned department / client and/or Audited Balance Sheet duly certified by the Chartered Accountant etc. or certificate as per Annexure-VIII. (Mandatory)	No	No	Allowed (Mandatory)
18	The tenderer in the capacity of Sole Proprietor tenderer shall submit the affidavit duly executed on stamp paper and notarized as per Annexure IX. (Mandatory for Sole Proprietorship Firm/JV firm having Sole Proprietor firm as a member)	Yes	Yes	Allowed (Optional)
19	The tenderer shall submit the Special Power of Attorney duly registered with registrar or notarized as per proforma given in Annexure XIV to be submitted by sole proprietor firm duly notarized. (Not required if tender documents are uploaded by proprietor himself). (Mandatory for Sole Proprietorship Firm , if tender documents are uploaded by any individual ,authorized by him)	Yes	Yes	Allowed (Optional)
20	The tenderer as partnership firm shall submit copy of partnership deed. (Mandatory for Partnership Firm/JV Firm having partnership firm as a member)	Yes	Yes	Allowed (Optional)
21	The tenderer as partner ship firm shall submit the Special Power of Attorney duly registered with registrar or notarized as per proforma given in Annexure-XIII to be submitted by Partnership firm. (Not required if one or more partners are authorized in Partnership deed to digitally sign and upload the offer on behalf of the firm.) (Mandatory for Partnership Firm)	Yes	Yes	Allowed (Optional)
22	The tenderer in the capacity of limited company shall submit the Copy of Memorandum & Articles of Association of Company. (Mandatory for Limited Company Firm/JV Firm having having Limited Company as a member)	Yes	Yes	Allowed (Optional)
23	The tenderer in the capacity of limited company shall submit the copy of resolution passed by Board of Directors authorizing its Director/Employee to deal with tender on behalf of company.(Mandatory for Limited Company Firm)	Yes	Yes	Allowed (Optional)
24	The tenderer in the capacity of limited company shall submit the Special Power of Attorney duly registered with registrar or notarized including ratification clause duly signed by person authorized by the company as per proforma given in Annexure-XV. (Mandatory for Limited Company Firm)	Yes	Yes	Allowed (Optional)
25	The tenderer in the capacity of Limited liabilities Partnership firm (LLP firm) shall submit the copy of LLP Agreement (Mandatory for LLP firm /JV Firm having LLP Firm as a member)	Yes	Yes	Allowed (Optional)
26	The tenderer in the capacity of Limited liabilities Partnership firm (LLP firm) shall submit the copy of Certificate of Incorporation (Mandatory for LLP firm /JV Firm having LLP Firm as a member)	Yes	Yes	Allowed (Optional)
27	The tenderer in the capacity of Limited liabilities Partnership firm (LLP firm) shall submit submit the Special Power of Attorney duly registered with registrar or notarized, issued by LLP firm as per proforma given in Annexure-XX. (Mandatory for LLP firm)	Yes	Yes	Allowed (Optional)

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28	The tenderer in the capacity of Limited liabilities Partnership firm (LLP firm) shall submit the copy of Resolution of Partners of LLP firm (executed on the Letter Head of LLP firm) in favour of the individual to sign he tender on behalf of the LLP firm and deal with tender on behalf of the firm as per proforma given in Annexure-XXI.(Mandatory for LLP firm).	Yes	Yes	Allowed (Optional)
29	The tenderer in the capacity of Registered Society/ Registered Trust shall submit the copy of the certificate of registration (Mandatory for Registered Society/ Registered Trust and JV firm having Registered Society/ Registered Trust as a member)	Yes	Yes	Allowed (Optional)
30	The tenderer in the capacity of Registered Society/ Registered Trust shall submit the copy of the Deed of Formation (Mandatory for Registered Society/ Registered Trust and JV firm having Registered Society/ Registered Trust as a member)	Yes	Yes	Allowed (Optional)
31	The tenderer in the capacity of Registered Society/ Registered Trust shall submit the Special Power of Attorney duly registered with registrar or notarized issued by Registered Society / Registered Trust as per proforma given in Annexure-XXII (Mandatory for Registered Society/ Registered Trust).	Yes	Yes	Allowed (Optional)
32	The tenderer in the capacity of JV firm shall submit the Memorandum of Understanding of JV duly notarized as per proforma given in Annexure-X. (Mandatory for Joint Venture Firm)	Yes	Yes	Allowed (Optional)
33	The sole proprietor firm or HUF participating as a member of JV shall submit the Special Power of Attorney duly registered with registrar or notarized as per proforma given in Annexure-XII (Mandatory), (not required if MOU/JV agreement is signed by the proprietor himself)	Yes	Yes	Allowed (Optional)
34	The tenderer in the capacity of JV firm shall submit the Letter of consent duly executed on stamp paper as per proforma given in Annexure-XI to be submitted by a partnership firm participating as a Member of JV firm. (Mandatory for Joint Venture Firm if one of the member is Partnership firm)	Yes	Yes	Allowed (Optional)
35	The tenderer in the capacity of JV firm shall submit the Special Power of Attorney duly registered with registrar or notarized in favour of the individual to sign the MOU/JV agreement on behalf of the partnership firm and create liability against the firm as per proforma given in Annexure-XVIII.(Mandatory for Joint Venture Firm if one of the member is Partnership firm)	Yes	Yes	Allowed (Optional)
36	The tenderer in the capacity of JV firm shall submit the Copy of Resolution of the Partners of LLP firm, permitting the LLP firm to enter into a JV agreement, authorizing one of the partner of LLP firm to sign MOU/JV Agreement and such other documents required to be signed on behalf of the LLP firm and to create liabilities against the LLP firm and / or to do any other act on behalf of the LLP firm as per proforma given in Annexure-XXIV (Mandatory for JV firm if one of the member is LLP firm).	Yes	Yes	Allowed (Optional)
37	The tenderer in the capacity of JV firm shall submit the Special Power of Attorney duly registered with registrar or notarized (Backed by Resolution of the Partners of LLP firm) in favour of individual to sign the tender, to sign MOU/JV Agreement on behalf of the LLP firm and create liability against the LLP firm as per proforma given in Annexure-XXV. (Mandatory for JV firm if one of the member is LLP firm).	Yes	Yes	Allowed (Optional)
38	The tenderer in the capacity of JV firm shall submit the Copy of Resolution of the Partners of Registered Society/ Trust permitting the Registered Society/ Trust to enter into a JV agreement, authorizing one of the partner of Registered Society/ Trust to sign JV MOU/ Agreement and such other documents required to be signed on behalf of the Registered Society/ Trust and to create liabilities against the Registered Society/ Trust and / or to do any other act on behalf of the Registered Society/ Trust as per proforma given in Annexure XXVI (Mandatory for JV firm if one of the member is Registered Society/ Trust).	Yes	Yes	Allowed (Optional)
39	The tenderer in the capacity of JV firm shall submit the Special Power of Attorney duly registered with registrar or notarized issued by Registered Society/ Trust (Backed by Resolution of the Partners of Registered Society/ Trust) in favour of individual to sign the tender, to sign MOU/JV Agreement on behalf of the Registered Society/ Trust and create liability against the Registered Society/ Trust as per proforma given in Annexure XXVII (Mandatory for JV firm if one of the member is Registered Society/ Trust).	Yes	Yes	Allowed (Optional)

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40	The tenderer in the capacity of JV firm shall submit the Copy of Memorandum & Articles of Association of Company (Mandatory for JV firm if one of the member is Limited Company).	Yes	Yes	Allowed (Optional)
41	The tenderer in the capacity of JV firm shall submit the Special Power of Attorney duly registered with registrar or notarized) in favour of individual to sign the tender , to sign MOU/JV Agreement on behalf of the company and create liabilities against the company as per proforma given in Annexure-XII (Mandatory for JV firm if one of the member is Limited Company, Sole Proprietor or HUF). (Not required if MOU/ JV is signed by Proprietor, Karta of HUF itself)	Yes	Yes	Allowed (Optional)
42	The tendere in the capacity of JV firm shall submit the copy of resolution passed by Board of Directors of the Company, permitting the company to enter into a JV agreement, authorizing MD or one of the Directors of Mangers of the Company to sign JV Agreement, such other documents required to be signed on behalf of the Company and enter into liability against the company and/or do any other act on behalf of the company to be submitted as per Annexure-XVII. (Mandatory for JV firm if one of the member is Limited Company)	Yes	Yes	Allowed (Optional)
43	The tenderers shall submit the information and particulars regarding retired Railway Engineer(s)/Officer(s) of the Gazetted rank and regarding Relative(s) employed in Gazetted capacity on North Western Railway as per proforma given in Annexure XXIII (Mandatory)	No	No	Allowed (Mandatory)

Undertakings

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	I/ We have visited the works site and I / We am / are aware of the site conditions.	No	No	Not Allowed
2	I/We have read the various conditions to tender attached here to and agree to abide by the said conditions. I/We also agree to keep this tender open for acceptance for a period as mentioned in NIT header from the date fixed for opening the same and in default thereof, I/We will be liable for forfeiture of my/our "Earnest Money". I/We offer to do the work for North Western Railway, at the rates quoted in the attached schedule and hereby bind myself/ourselves to complete the work in all respects within time period as mentioned in the NIT Header from the date of issue of letter of acceptance of the tender.	No	No	Not Allowed
3	I/We also hereby agree to abide by the General Conditions of Contract-2019 corrected up- to- date and to carry out the work according to the Special Conditions of Contract and Indian Railways Unified Standard Specifications (Materials and Works) Vol-I & II 2010 as corrected up-to-date, Unified Standard Schedule of Rates of North-Western Railway, 2010 as corrected up-to-date (for the present contract).	No	No	Not Allowed
4	An amount towards Tender document cost and Earnest Money Deposit As mentioned in the relevant Para of NIT header has been submitted online through net banking or payment gateway. The full value of the Earnest Money shall stand forfeited without prejudice to any other right or remedies in case my/our tender is accepted and if:- (a) I/We do not execute the contract documents within seven days after receipt of notice issued by the Railway that such documents are ready; and (b) I/We do not commence the work within fifteen days after receipt of orders to that effect.	No	No	Not Allowed
5	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
6	The tenderer shall submit the original copies of the documents as per Annexure II, IX, X, XI, XII, XIII, XIV, XV, XVII, XVIII, XX, XXI, XXII, XXIII, XXIV and XXV or other document as applicable for Sole Proprietor/ Partnership firm/LLP firm/ Registered Society / Registered Trust /Limited Company/JV Firms as and when required by the Railway for the verification. If the required documents are not submitted by the tenderer or there any discrepancy is found between the scanned uploaded documents by the tenderer and original documents then the offer of the concerned tenderer will be summary rejected and the action will be taken as per the various provisions of Affidavit to be submitted by the tenderer as per Annexure-II.	No	No	Not Allowed

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7	The tenderer shall comply with the provisions of the Contract Labour (Regulation and Abolition) Act 1970 and the Contract Labour (Regulation and Abolition) Central Rules 1971 as modified from time to time, wherever applicable and shall also indemnify the Railway from and against any claims under the aforesaid Act and Rules.	No	No	Not Allowed
8	The tenderer shall comply with the provisions of the Payment of Wages Act 1936, Minimum Wages Act 1948, The Workmen Compensation Act 1923, and the rules made there under in respect of any employees employed directly or through petty contractors or sub-contractors engaged by them, as modified from time to time, wherever applicable and shall also indemnify the Railway from and against any claims under the aforesaid Act and Rules.	No	No	Not Allowed
9	The tenderer shall comply with the provisions of the Employees provident fund and Miscellaneous Provision Act 1952 and the rules made there under as modified from time to time, wherever applicable and shall also indemnify the Railway from and against any claims under the aforesaid Act and Rules.	No	No	Not Allowed
10	The tenderer shall comply with the provisions of the Employees State Insurance Act 1948 and Employees Pension Scheme 1995 and the rules made there under as modified from time to time, wherever applicable and shall also indemnify the Railway from and against any claims under the aforesaid Act and Rules.	No	No	Not Allowed
11	The successful tenderer after award of the contract shall register himself on website www.shramikkalyan.indianrailways.gov.in and will comply the provisions of the Para 39 of the Special Conditions (General) of Standard Tender Document.	No	No	Not Allowed
12	I/We have read the various conditions of clause no. 25 of General Instructions of Tender Document and Special Condition of NIT regarding Electronic Reverse Auction and agree to abide by the said conditions.	No	No	Not Allowed
13	Certify that neither I /We (name of the sole Proprietor firm/ Partnership Firm/Limited Company/ LLP/Registered Society/Trust / JV firm) nor any of the partner or partnership firm/ LLP /Member of Registered Society/ Trust / Constituent of JV firm including partner of partnership firm in JV has/ have been black listed or debarred by Railway or any other Ministry /Department/ Public Sector Undertaking of the Government of India/ any State from participation in tenders/contract on the date of opening of bids either in our individual capacity or in any firm in which we are partners.	No	No	Not Allowed

6. Documents attached with tender

S.No.	Document Name	Document Description
1	07062024JPCKSFINAL1.pdf	STD and Special conditions
2	GCC2022uptoACS6updated23122023latest.pdf	GCC 2022
3	ACS-1GCC-2022Policy14_07_2022_1.pdf	Correction slip 1
4	ACS-2IndianRailwaysStandardGeneralConditionsofContractApril2022ACSNo_2.pdf	Correction slip 2
5	ACS-3IndianRailwaysStandardGeneralConditionsofContractApril-2022AdvanceCorrectionSlipNo_3ACS-311.pdf	Correction slip 3
6	ACS-4IndianRailwaysStandardGeneralConditionsofContractApril-2022AdvanceCorrectionSlipNo_4ACS-4.pdf	Correction slip 4
7	ACS5IndianRailwaysStandardGeneralConditionsofContractApril-2022AdvanceCorrectionSlipNo_5ACS-53.pdf	Correction slip 5
8	ACS-6IndianRailwaysStandardGeneralConditionsofContractApril-2022AdvanceCorrectionSlipNo_6ACS-6.pdf	Correction slip 6

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

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

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Signed By: VARUN KUMAR

Designation : Dy.CE/C/V/JP