

INDORE SMART CITY DEVELOPMENT LIMITED



REQUEST FOR PROPOSAL FOR

SELECTION OF BIDDER FOR “INFRASTRUCTURE DEVELOPMENT WORKS INCL. CONSTRUCTION OF ROADS, UNDERGROUND WATER TANK, WATER SUPPLY NETWORK, SEWER NETWORK, STORM WATER DRAINAGE NETWORK, OPEN AREA DEVELOPMENT IN THE CAMPUS OF MOG LINES LAND PARCEL -1 (OLD GOVERNMENT QUARTERS) NEAR MHOW NAKA, INDORE” UNDER THE MODEL PRESCRIBED IN RE- DENSIFICATION POLICY OF GoMP AGAINST FREEHOLD SALE OF BLOCK No. -16 (LAND USE: RESI-COMMERCIAL) OF MOG LINES -1 AS COMPENSATORY LAND PARCEL (CLP)
(VOLUME -3)

NIT No: 06/ISCDL/2026-27; Dated 06.05.2026
(Online Tender Id: 2026_UAD_505567_1)

INDORE SMART CITY DEVELOPMENT LIMITED

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DISCLAIMER

The information contained in this Request for Proposal document ("RFP") or subsequently provided to Bidder(s), whether verbally or in documentary or in any other form by or on behalf of the Indore Smart City Development Limited (the Authority) or any of its employees or advisors is final and binding. The same is provided in the terms and conditions of this document.

This RFP is not agreement and is neither an offer nor invitation by the authority to the prospective Bidders or any other person. The purpose of this RFP is to provide interested parties with information that may be useful to them in making their technical and financial offers (BIDs) pursuant to this RFP. This RFP includes statements, which reflect various assumptions and assessments arrived at by the authority in relation to the project. Such assumptions, assessments and statements do not purport to contain all the information that each Bidder may require. This RFP may not be appropriate for all persons, and it is not possible for the authority, its employees or advisors to consider the investment objectives, financial situation and particular needs of each party who reads or uses this RFP.

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The authority, its employees and advisors make no representation or warranty and shall have no liability to any person, including any Applicant or Bidder under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this RFP or otherwise, including the accuracy, adequacy, correctness, completeness or reliability of the RFP and any assessment, assumption, statement or information contained therein or deemed to form part of this RFP or arising in any way for participation in this BID Stage (from NIT Publication till issue of Letter of Acceptance).

The Authority also accepts no liability of any nature whether resulting from negligence or otherwise howsoever arising from reliance of any Bidder upon the statements contained in this RFP. The Authority may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information, assessment or assumptions contained in this RFP.

The issue of this RFP does not imply that the Authority is bound to select a Bidder or to appoint the Successful Bidder JV or Contractor, as the case may be for the Project and the Authority reserves the right to reject all or any of the Bidders or BIDs without assigning any reason whatsoever.

The Bidder shall bear all costs associated with or relating to the preparation and submission of its BID including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by the Authority or any other costs incurred in connection with or relating to its BID. All such costs and expenses will remain with the Bidder and the Authority shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by a Bidder in preparation or submission of the BID, regardless of the conduct or outcome of the Bidding Process.

CONTENTS OF RFP DOCUMENT

Volume - 1	Instruction and Information to Bidders		
	Section 1	Invitation for Bids	
	Section 2	Instruction to Bidders	
	Section 3	Formats for Submission of bid	
		Part A:	General Submission Formats
		Part B:	Technical Bid Submissions Formats
Part C:	Price Bid Submissions Formats		
Section 4	Project Information Memorandum		
Volume - 2	Draft Concession-cum-Development Agreement and Sale-deed Agreement for Compensatory Land Parcel		
	Section 1	Draft Concession-cum-Development Agreement and Schedules	
	Section 2	Draft Deed of Conveyance for Compensatory Land Parcel	
Volume - 3	Bill of Quantities (BoQ) for construction and development of Government Facilities [part of Draft Concession-cum-Development Agreement]		

ESTIMATED BOQ FOR "INFRASTRUCTURE DEVELOPMENT WORKS INCL. CONSTRUCTION OF ROADS, UNDERGROUND WATER TANK, WATER SUPPLY NETWORK, SEWER NETWORK, STORM WATER DRAINAGE NETWORK, OPEN AREA DEVELOPMENT IN THE CAMPUS OF MOG LINES LAND PARCEL -1 (OLD GOVERNMENT QUARTERS) NEAR MHOW NAKA, INDORE"

Sr no	Details Of Work	UNIT	Amount
1	Estimated of Road Work (Cement Concrete Pavement)		
A	Road Work 18 meter wide	950 Meter	7,06,67,184.75
B	Road Work 9 meter wide	550 Meter	2,07,61,743.94
C	Road Work 12 meter wide	160 Meter	1,04,56,419.63
D	Road Work 15 meter wide	152 Meter	1,06,24,371.31
E	Road Work 7.5 meter wide	300 Meter	91,93,733.75
F	Road Work 6 meter wide	600 Meter	1,33,00,820.50
2	Estimated of Under Ground Sewer line laying work ,Manholes ,Constructions work .	3500 meter	3,82,58,017.92
3	Estimated of Under ground Water line laying Work ,Manholes ,Constructions Work ,Sump ,Tubewell boring work and Pump installations.	3200 Meter	4,53,66,486.50
4	Estimated of Under ground Storm water line laying work ,Manholes ,Constructions work and Recharging Work .	3100 meter	1,09,64,650.00
5	Estimated of Garden Developments work (HORTICULTURE)	01 JOB	2,80,62,395.00
6	Estimated of Boudry Wall and Colony Main Gate.	01 JOB	41,25,100.00
7	Estimated of Under ground Electrifications Duct & Pipe line laying work ,Manholes ,Constructions work.	2900 Meter	2,73,85,110.00
8	Estimated of Under ground OFC PIPE LINE	2900 meter	36,68,550.00
9	Estimated of Relegious Structure	01 JOB	1,30,62,137.40
10	Estimated of road MOS Footpath paver.	1000 Mtr	56,50,419.75
11	Community Hall	Job	2,05,97,179.00
	Civil Developments Work A Total		33,21,44,319.46
	Grand B Total		33,21,44,319.46
	GST @ 18 % Total (I)		5,97,85,977.50
	Final Total		39,19,30,296.96

Sans
 Executive Engineer
 Indore Smart City Development Ltd

Amr Ali
 Sr. Engineer (Civil)
 ESCORT

Shankar
 Sr. Engineer (Civil)
 ESCORT

Estimate of 18 Meter Road (Cement Concrete Pavement)

S.no.	SOR & Non sor Items	Description	Unit	NO	L	W	D	QTY	Rate	Amount
1	MPPWD Road & bridge 2025 SOR , item no. 2.2 and page no. 5	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees having girth up to 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material up to a lead of 1000 meters including removal and disposal of top organic soil not exceeding 150 mm in thickness.	Hectare	1				1	29409	29409
2		In area of light jungle	Hectare	1				1	23080	23080
3		In area of thorny jungle								
4	MPUADD vol 2 Item 2.1	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m.								
5	2.1.1	All kinds of soil.	100/sqm					250	1003	250750
6	MPPWD Road & bridge 2025 SOR , item no. 2.1 and page no. 5	Cutting of Trees, including Cutting of Trunks, Branches and Removal Cutting of Trees, including Cutting of Trunks, Branches and Removal Cutting of trees, including cutting of trunks/branches in suitable size removal of stumps/roots, and stacking of serviceable material with all lifts and lead up to storage yard and filling earth in the depression/pit.								
	i	Girth from 300 mm to 600 mm	each	222					325	72150
	ii	Girth from 600 mm to 900 mm	each	64					434	27776
	iii	Girth from 900 mm to 1800 mm	each	137					883	120971
	iv	Girth above 1800 mm	each	5					1640	8200
7	MPPWD Road & bridge 2025 SOR , item no. 11.23	Tree Shifting and their Maintenance for Three Year Transplantation of Trees including trimming the branches of full grown tree as per the requirement, giving a wax treatment of the trimmed area of branches, uprooting the tree i/c trimming and transporting the uprooted tree to the specified site of transplantation as directed by the engineer-in-charge up to 12 kms. lead including all lifts, transplanting, the uprooted tree by digging a required size of pit, filling it with fresh garden soil and manure as per the requirement & maintaining it for a period of 4 months by watering, weeding, manuring etc complete.								
	i	Trees having trunk girth upto 1.00 M.	Per Tree	286					25236	7217496
	ii	Trees having trunk girth more than 1.00 M. upto 1.5 M	Per Tree	137					27854	3815998
	iii	Trees having trunk girth more than 1.5 M. to 2.00 M.	Per Tree	5					30472	152360
8	MPPWD Road & bridge 2025 SOR 3.3	Excavation in Soil using Hydraulic Excavator and Tipplers with disposal upto 1000 metres. Excavation for roadwork in soil with hydraulic excavator including cutting and loading in tipplers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location with all lifts and lead upto 1000m as per relevant clauses of section-300 of specification.	cum	1	950	18	0.85	14535	79	1148265
9	MPPWD Road & bridge 2025 SOR , item no. 1.1.2 and page no.02	Transportation By Mechanical Transport including loading, unloading and stacking. Beyond 10km up to 20 km	Cu. Mt.	1				28000	150.9	4225200
10	MPPWD Road & bridge 2025 SOR , item no. 2.5 and page no. 6	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling Serviceable material at designated locations and disposal of unserviceable materials up to a lead of 1000 meters,	Cum	500					1296	648000
11	MPPWD SOR 2025 2.7	Dismantling Kerb Stone Dismantling kerb stone by manual means and disposal of dismantled material with all lifts and up to a lead of 1000 meter	Meter	200					15	3000
12	MPPWD Road & bridge 2025 SOR 3.13	Construction of Embankment with Material Deposited from Roadway Cutting Construction of embankment with approved materials CBR>7 deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of table 300-1, 300-2 and as per relevant clauses of section-300.	Cu. Mt.	1	950	14	0.6	7980		

	MPPWD BLD 2024 SOR 4.3.1	Upto plinth: Foundations, footings, bases for columns, plinth beams, curtain walls, columns below plinth. Providing and laying in position specified grade of reinforced cement concrete (nominal / design mix with 20mm nominal size graded stone aggregate) excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:	Sqm	2	950	0	0.3	570	169	96330
29	MPPWD BLD 2024 SOR 5.1	M-20 Grade Concrete	Cu. Mt.	2	950	0.2	0.3	114	6153	701442
30	MPPWD BLD 2024 SOR 5.1.1	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire all wastages and overlaps, couplers (overlaps shall be provided as per requirement of IS 13920 for ductile detailing IS 456 RCC Design & SP 34 Reinforcement detailing) etc. complete. (Note:- 1. Spacer bars (chairs) shall be paid separately as shown in the drawing and as per direction of engineer in charge.2. No extra payment shall be done for overlaps and/or couplers.3. Couplers shall be conforming to IS code on "Reinforcement Couplers for Mechanical Splices of Bars for Concrete Reinforcement - Specification")								
31	MPPWD BLD 2024 SOR 5.16	Thermo-Mechanically Treated bars. FE 500 D or more conforming to IS 1786	KG		119.6	80	9571.2	80		765696
32	MPPWD BLD 2024 SOR 5.16.6	Providing and erecting 2.00meters high temporary barricading at site; each panel of size 2.50mx2.00m made of 40x40x6mm angle iron or 50x50x3mm hollow MS tube posts/horizontal members/bracings covered with 1.63mm thick MS sheet. The sheet shall be fixed with 30x5mm MS flat by suitable welding/riveting. The panels shall be made so that gap of 50cm above the ground is available making overall height as 2.5m. MS channel ISLC 75 @ 5.70 kg/m, 50cm long shall be provided at the bottom having oval shaped holes of size 50x25mm at both ends with 50cm long MS angle 40x40x6mm bracing. Suitable arrangement shall be made to fix the barricading to avoid from overturning by providing 250mm long expansion fasteners at both ends. The work shall be executed as per drawing/ direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals directed by the Engineer-in-Charge. The barricading provided shall be retained in position at site continuously including shifting of barricading from one location to another location as many times as required during the execution of the entire work till its completion. Rate include its maintenance for damages, painting, all incidentals, labour materials, equipment and works required to execute the job. The barricading shall not be removed without prior approval of Engineer-in-Charge.	Meter					1900	3891	7392900
33	MPUADD Road Sor 2025 8.28									
34	MPPWD Road & bridge 2025 SOR , item no. 2.12 and page no. 7	Removal of Cement Concrete Pipe of Sewer Gutter Removal of cement concrete pipe of sewer gutter up to 1500 mm dia under the supervision of concerned department including disposal with all lifts and up to a lead of 1000 meters and stacking of serviceable and unserviceable material separately but excluding earth excavation and dismantling of masonry works.	Meter					400	209	83600
35	MPPWD Road & bridge 2025 SOR , item no. 2.12 and page no. 7	Removal of Cement Concrete Pipe of Sewer Gutter Removal of cement concrete pipe of sewer gutter up to 1500 mm dia under the supervision of concerned department including disposal with all lifts and up to a lead of 1000 meters and stacking of serviceable and unserviceable material separately but excluding earth excavation and dismantling of masonry works.	Meter					200	209	41800
36	MPPWD BLD 2024 SOR 15.3 vol 2	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in- Charge.	CUM					300	844	253200
37	MPPWD BLD 2024 SOR 15.4 vol2	Extra for cutting reinforcement bars manually/ by mechanical means in R.C.C. work (Payment shall be made on the cross sectional area of R.C.C. work) as per direction of Engineer-in- Charge.	sqm					5000	276	1380000

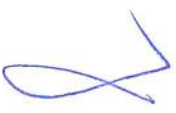

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Estimate of 15 Meter Road (Cement Concrete Pavement)

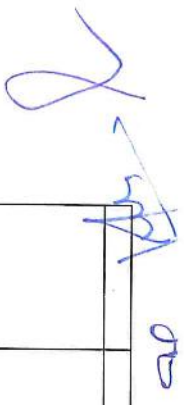
S.no.	SOR & Non sor Items	Description	Unit	NO	L	W	D	QTY	Rate	Amount
1	MPPWD Road & bridge 2025 SOR, item no. 2.2 and page no. 5	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees having girth up to 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material up to a lead of 1000 meters including removal and disposal of top organic soil not exceeding 150 mm in thickness.								
2	i	In area of light jungle	Hectare	1				1	29409	29409
3	ii	In area of thorny jungle	Hectare	1				1	23080	23080
4	mpuadd vol 2 item 2.1	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15cm deep disposal of rubbish, lead upto 50 m and lift upto 1.5 m.								
5	2.1.1	All kinds of soil.	100/sqm					120	1003	120360
6	MPPWD Road & bridge 2025 SOR 3.3	Excavation in Soil using Hydraulic Excavator and Tipper with disposal upto 1000 metres. Excavation for roadwork in soil with hydraulic excavator including cutting and loading in tipper, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location with all lifts and lead upto 1000m as per relevant clauses of section-300 of specification.	cum	1	160	15	0.85	2040	79	161160
7	MPPWD Road & bridge 2025 SOR, item no. 1.1.2 and page no.02	Transportation By Mechanical Transport including loading, unloading and stacking. Beyond 10km up to 20 km	Cu. Mt.	1				10438	150.9	1575094.2
8	MPPWD Road & bridge 2025 SOR, item no. 2.5 and page no. 6	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling Serviceable material at designated locations and disposal of unserviceable materials up to a lead of 1000 meters,	Cum	500					1296	648000
9	MPPWD SOR 2025 2.7	Dismantling Kerb Stone Dismantling kerb stone by manual means and disposal of dismantled material with all lifts and up to a lead of 1000 meter	Meter	200					15	3000
10	MPPWD Road & bridge 2025 SOR 3.13	Construction of Embankment with Material Deposited from Roadway Cutting Construction of embankment with approved materials CBR>7 deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of table 300-1, 300-2 and as per relevant clauses of section-300.	Cu. Mt.	1	160	12	0.6	1152		
11		5 % EXTRA FOR JUNCTIONS	Cu. Mt.					57.6		
12		15 % EXTRA Filling	Cu. Mt.					172.8		
13		Total	Cu. Mt.					1382	298	411955.2
14	MPPWD Road & bridge 2025 4.14	Construction of Shoulders with approved material/selected soil i/c excavation all lifts & leads i/c grading to required slope & camber of 4% and compacting using vibratory roller of 80 to 100 kN static weight to meet requirement as per relevant clause of 400.								

59	MPUADD Road Sor 2025 8.28	<p>Providing and erecting 2.00meters high temporary barricading at site; each panel of size 2.50mx2.00m made of 40x40x6mm angle iron or 50x50x3mm hollow MS tube posts/horizontal members/bracings covered with 1.63mm thick MS sheet. The sheet shall be fixed with 30x5mm MS flat by suitable welding/riveting. The panels shall be made so that gap of 50cm above the ground is available making overall height as 2.5m. MS channel ISLC 75 @ 5.70 kg/m, 50cm long shall be provided at the bottom having oval shaped holes of size 50x25mm at both ends with 50cm long MS angle 40x40x6mm bracing. Suitable arrangement shall be made to fix the barricading to avoid from overturning by providing 250mm long expansion fasteners at both ends. The work shall be executed as per drawing/ direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs, marking, flags, caution tape as directed by the Engineer-in-Charge. The barricading provided shall be retained in position at site continuously including shifting of barricading from one location to another location as many times as required during the execution of the entire work till its completion. Rate include its maintenance for damages, painting, all incidentals, labour materials, equipment and works required to execute the job. The barricading shall not be removed without prior approval of Engineer-in-Charge.</p>	meter					320	3891	1245120
60	MPPWD Road & bridge 2025 SOR , item no. 2.12 and page no. 7	Removal of Cement Concrete Pipe of Sewer Gutter Removal of cement concrete pipe of sewer gutter up to 1500 mm dia under the supervision of concerned department including disposal with all lifts and up to a lead of 1000 meters and stacking of serviceable and unserviceable material separately but excluding earth excavation and dismantling of masonry works.	Meter	405					209	84645
61	MPPWD BLD 2024 SOR 15.3 vol 2	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-Charge.	cum					110	844	92840
62	MPPWD BLD 2024 SOR 15.4 vol2	Extra for cutting reinforcement bars manually/ by mechanical means in R.C.C. work (Payment shall be made on the cross sectional area of R.C.C. work) as per direction of Engineer-in-Charge.	sqm					500	276	138000
63	MPPWD BLD 2024 SOR 15.4 vol2	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.								
64	MPPWD BLD 2024 SOR 15.6.3 vol 2	In cement mortar	cum					100	487	48700
65	MPPWD BLD 2024 SOR 15.11 vol2	Dismantling tile/ Kota stone/ Marble / Granite work in floors/walls and roofs laid in cement mortar including stacking material within 50 metres lead.	sqm					2000	26	52000
66	MPPWD BLD 2024 SOR 15.11.2 vol 2	For thickness of tiles above 25 mm and upto 40 mm.								
67	MPPWD BLD 2024 SOR 15.13 vol 2	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.	sqm					600	31	18600

Estimate of 12 Meter Road (Cement Concrete Pavement)

S.no.	SOR & Non sor Items	Description	Unit	NO	L	W	D	QTY	Rate	Amount
1	MPPWD Road & bridge 2025 SOR, item no. 2.2 and page no. 5	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees having girth up to 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material up to a lead of 1000 meters including removal and disposal of top organic soil not exceeding 150 mm in thickness.								
2	i	In area of light jungle	Hectare	1				1	29409	29409
3	ii	In area of thorny jungle	Hectare	1				1	23080	23080
4	mpuadd vol 2 item 2.1	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m.								
5	2.1.1	All kinds of soil.	100/sqm					100	1003	100300
6	MPPWD Road & bridge 2025 SOR 3.3	Excavation in Soil using Hydraulic Excavator and Tipper with disposal upto 1000 metres. Excavation for roadwork in soil with hydraulic excavator including cutting and loading in tipper, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location with all lifts and lead upto 1000m as per relevant clauses of section-300 of specification.	Cu. Mt.	1	160	12	0.85	1632	79	128928
7	MPPWD Road & bridge 2025 SOR, item no. 1.1.2 and page no.02	Transportation By Mechanical Transport including loading, unloading and stacking. Beyond 10km up to 20 km	Cu. Mt.	1				16424	150.9	2478381.6
8	MPPWD Road & bridge 2025 SOR, item no. 2.5 and page no. 6	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling serviceable material at designated locations and disposal of unserviceable materials up to a lead of 1000 meters,	Cum	200					1296	259200
9	MPPWD SOR 2025 2.7	Dismantling Kerb Stone Dismantling kerb stone by manual means and disposal of dismantled material with all lifts and up to a lead of 1000 meter	Meter	200					15	3000
10	MPPWD Road & bridge 2025 SOR 3.13	Construction of Embankment with Material Deposited from Roadway Cutting Construction of embankment with approved materials CBR>7 deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of table 300-1, 300-2 and as per relevant clauses of section-300.	Cu. Mt.	1	160	9	0.6	864		
11		5 % EXTRA FOR JUNCTIONS	Cu. Mt.					43.2		
12		15 % EXTRA Filling	Cu. Mt.					129.6		
13		Total	Cu. Mt.					1037	298	308966.4
14	MPPWD Road & bridge 2025 4.16	Construction of Shoulders with approved material/selected soil i/c excavation all lifts & leads i/c grading to required slope & camber of 4% and compacting using vibratory roller of 80 to 100 kN static weight to meet requirement as per relevant clause of 400.	Cu. Mt.	2	160	1.5	0.6	288	398	114624
15		Earthen Shoulders (CBR value >7)								
16	MPPWD Road & bridge 2025 SOR 4.1	Granular Sub-base with Well Graded Material (CBR>30 or more) (Table: 400-1 & Table 400-2) Construction of granular sub-base by providing well graded material like natural sand crushed gravel or crushed stone having CBR >30, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator or plant mix method at OMC, and compacting with vibratory rollers of 80 to 100 kN static weight to achieve the desired density, complete as per Clause 401 of Specification.	Cu. Mt.	1	160	12	0.15	288		
17		5 % EXTRA FOR JUNCTIONS	Cu. Mt.					14.4		



18		Total	Cu. Mt.						302	1114	336873.6
19	MPPWD Road & bridge 2025 SOR 1.3	Supply of following material including all lead and stacking etc. complete.									
20		Crusher stone dust	Cu. Mt.						100	300	30000
21											
22	MPPWD Road & bridge 2025 SOR 6.1	Dry Lean Cement Concrete Sub-base Construction of dry lean cement concrete Sub-base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with	Cu. Mt.	1	160	12.6	0.1	202			
23		5 % EXTRA FOR JUNCTIONS	Cu. Mt.					10.08			
24		Total	Cu. Mt.					212	2712	574076.16	
25	MPPWD Road & bridge 2025 SOR , item no. 6.2 and page no. 28	Deduct from Item No.6.1 above if paver finisher with electronic sensor is not used and laying, (The acceptance criteria regarding level, thickness, surface regularity, texture finish, strength of concrete and all other quality control measures shall be the same	Cum	0						-300	
26	MPPWD Road & bridge 2025 SOR 6.3	Construction of un-reinforced, dowel jointed, plain cement concrete pavement M-40 grade concrete over a prepared sub base with cement , coarse and fine aggregate conforming to IS 383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, admixtures as approved, curing compound, finishing to lines and grades as per drawing as per IRC 15 2011. and as per relevant clauses of section 602 of specifications complete but excluding cost of steel in dowel bar and tie rods etc.	Cu. Mt.	1	160	9	0.3	432			
27		5 % EXTRA FOR JUNCTIONS	Cu. Mt.					21.6			
28		Total	Cu. Mt.					454	5769	2616818.4	
29	MPPWD Road & bridge 2025 SOR , item no. 6.5 and page no. 29	Deduct from Item No.6.3 & 6.4 above if slip form paver with electronic sensor is not used and laying, compaction is done by fix form paver having 60 mm vibratory needle @ 2 Nos. per metre. (The acceptance criteria regarding level, thickness, surface regularity, texture finish, strength of concrete and all other quality control	Cum	0						-800	0
30	MPPWD Road & bridge 2025 SOR 6.8	add extra in item no 6.3,6.4,6.6,6.10, above for the cost of steel in dowel bar and tie rod including cradle laps etc compete required as per design									
31		Mild steel	MT	4082.4	0.001			4.0824	57734	235693.2816	
32		9KG PER CUMT OF CONCRET	MT	1360.8	0.001			1	58734	79925.2272	
33		Tor steel									
34		3KG PER CUMT OF CONCRET									
35	MPPWD Road & bridge 2025 SOR 8.41	Painting two coats on new concert surfaces painting two coats after filling the surface with synthetic enamel paint in all shades on new plattered concert surface.	Sqmt	2	160	1	0.3	96			
36		Total	Sqmt					96			
37		5 % EXTRA FOR JUNCTIONS	Sqmt					4.8			
38		Total	Sqmt					101	95	9576	
39											
40	MPPWD Road & bridge 2025 SOR 6.15, page-31	Providing and laying reinforced cement concrete pipe NP-4 for service ducts below concrete pavement.	meter	1	100			100	850	85000	
41		300 mm dia.									

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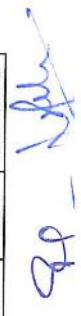
68	MPPWD BLD 2024 SOR 15.13 vol 2	Taking out existing CC interlocking paver blocks from footpath/ central verge. including removal of rubbish etc., disposal of unserviceable material to the dumping ground for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.	sqm					280	31	8680
69	MPPWD BLD 2024 SOR 15.14 vol 2	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :								
70		Of area beyond 3 sq. metres.	each					10	117	1170
71	MPPWD Road & Bridge 2025 SOR 10.43	Hire Charges of Mechanical Machineries /c Fuel & driver on Hourly basis (Minimum 4 hours in day) (i) Hydraulic Excavator (JCB Or Similar)	per hour					10	1100	11000
72		Tractor with Dozar/grader attachment	per hour					10	700	7000
MPPWD SOR Road 2025 & MPPWD SOR BLD 2024 & MP UADD SOR work-2021 (TOTAL)										10456419.63


ARIFF ALI
 Sub-Engineer (Civil)
 TSCDL
 Indore Smart City Development P.L.


J.S.
 Assistant Engineer
 TSCDL

Estimate of 09 Meter Road (Cement Concrete Pavement)

S.no.	SOR & Non sor Items	Description	Unit	NO	L	W	D	QTY	Rate	Amount
1	MPPWD Road & bridge 2025 SOR, item no. 2.2 and page no. 5	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees having girth up to 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material up to a lead of 1000 meters including removal and disposal of top organic soil not exceeding 150 mm in thickness.	Hectare	1				0.50	29409	14704.5
2	i	In area of light jungle	Hectare	1				0.50	23080	11540
3	ii	In area of thorny jungle								
4	mpuadd vol 2 item 2.1	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m.								
5	2.1.1	All kinds of soil.	100/sqm					80	1003	80240
6	MPPWD Road & bridge 2025 SOR 3.3	Excavation in Soil using Hydraulic Excavator and Tipper with disposal upto 1000 metres. Excavation for roadwork in soil with hydraulic excavator including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location with all lifts and lead upto 1000m as per relevant clauses of section-300 of specification.	cum	1	550	9	0.85	4208	79	332392.5
7	MPPWD Road & bridge 2025 SOR, item no. 1.1.2 and page no.02	Transportation By Mechanical Transport including loading, unloading and stacking. Beyond 10km up to 20 km	Cu. Mt.	1				8000	150.9	1207200
8	MPPWD Road & bridge 2025 SOR, item no. 2.5 and page no. 6	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling Serviceable material at designated locations and disposal of unserviceable materials up to a lead of 1000 meters,	Cum	500					1296	648000
9	MPPWD SOR 2025 2.7	Dismantling Kerb Stone Dismantling kerb stone by manual means and disposal of dismantled material with all lifts and up to a lead of 1000 meter	Meter	500					15	7500
10	MPPWD Road & bridge 2025 SOR 3.13	Construction of Embankment with Material Deposited from Roadway Cutting Construction of embankment with approved materials CBR>7 deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of table 300-1, 300-2 and as per relevant clauses of section-300.	Cu. Mt.	1	550	6	0.6	1980		0
11		5 % EXTRA FOR JUNCTIONS	Cu. Mt.					99		
12		15 % EXTRA Filling	Cu. Mt.					297		
13		Total	Cu. Mt.					2376	298	708048
14	MPPWD Road & bridge 2025 4.14	Construction of Shoulders with approved material/selected soil i/c excavation all lifts & leads i/c grading to required slope & camber of 4% and compacting using vibratory roller of 80 to 100 kN static weight to meet requirement as per relevant clause of 400.								
15		Earthen Shoulders (CBR value >7)	Cu. Mt.	2	550	1.5	0.6	990	398	394020
16	MPPWD Road & bridge 2025 SOR 4.1	Granular Sub-base with Well Graded Material (CBR>30 or more) (Table:- 400-1 & Table 400-2) Construction of granular sub-base by providing well graded material like natural sand crushed gravel or crushed stone having CBR >30, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator or plant mix method at OMC, and compacting with vibratory rollers of 80 to 100 kN static weight to achieve the desired density, complete as per Clause 401 of Specification.		1	550	9	0.15	743		
17		5 % EXTRA FOR JUNCTIONS	Cu. Mt.					37.125		
18		Total	Cu. Mt.					780	1114	868502.25

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S.no.	SOR & Non sor Items	Description	Unit	NO	L	W	D	QTY	Rate	Amount
19	MPPWD Road & bridge 2025 SOR 1.3	Supply of following material including all lead and stacking etc. complete.								
20		Crusher stone dust	Cu. Mt.					185	300	55500
21	MPPWD Road & bridge 2025 SOR 6.1	Dry Lean Cement Concrete Sub- base Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 810 tonnes vibratory roller, finishing and curing as per clause 601 of specification complete in all respect	Cu. Mt.	1	550	9.6	0.1	528		0
22		5 % EXTRA FOR JUNCTIONS	Cu. Mt.					26.4		
23		Total	Cu. Mt.					554	2712	1503532.8
24	MPPWD Road & bridge 2025 SOR, item no. 6.2 and page no. 28	Deduct from item No.6.1 above if paver finisher with electronic sensor is not used and laying. (The acceptance criteria regarding level, thickness, surface regularity, texture finish, strength of concrete and all other quality control measures shall be the same	Cum	0					-300	0
25	MPPWD Road & bridge 2025 SOR 6.3	Construction of un-reinforced, dowel jointed, plain cement concrete pavement M-40 grade concrete over a prepared sub base with cement, coarse and fine aggregate conforming to IS 383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, admixtures as approved, curing compound, finishing to lines and grades as per drawing as per IRC 15 2011 and as per relevant clauses of section 602 of specifications complete but excluding cost of steel in dowel bar and tie rods etc.	Cu. Mt.	1	550	6	0.3	990		0
26		5 % EXTRA FOR JUNCTIONS	Cu. Mt.					49.5		
27		Total	Cu. Mt.					1040	5769	5996875.5
28	MPPWD Road & bridge 2025 SOR, item no. 6.5 and page no. 29	Deduct from item No.6.3 & 6.4 above if slip form paver with electronic sensor is not used and laying, compaction is done by fix form paver having 60 mm vibratory needle @ 2 Nos. per metre. (The acceptance criteria regarding level, thickness, surface regularity, texture finish, strength of concrete and all other quality control measures shall be the same as in case of machine laid work.)	Cum	0					-800	0
29		add extra in item no 6.3,6.4,6.6,6.10, above for the cost of steel in dowel bar and tie rod including cradle laps etc complete required as per design								
30	MPPWD Road & bridge 2025 SOR 6.8	Mild steel	MT	9355.5	0.001				57734	540130.437
31		9KG PER CUMMT OF CONCRET	MT					9,3555		
32		Tor steel								
33		3KG PER CUMMT OF CONCRET	MT	3118.5	0.001			3	58734	183161.979
34		Painting two coats on new concert surfaces painting two coats after filling the surface with sythetic enamel paint in all shades on new platered concert surface.								
35	MPPWD Road & bridge 2025 SOR 8.41		Sqmt	2	800	1	0.3	480		
36		Total	Sqmt					480		
37		5 % EXTRA FOR JUNCTIONS	Sqmt					24		

90

S.no.	SOR & Non sor Items	Description	Unit	NO	L	W	D	QTY	Rate	Amount
38		Total								
39	MPPWD Road & bridge 2025 SOR 6.15	Providing and laying reinforced cement concrete pipe NP-4 for service ducts below concrete pavement.	Sqmt					504	95	47880
40		300 mm dia.	Meter	1	100			100	850	85000
41	UADD SOR Vol.1 2021, S.No. 7.1 Pg 103	Providing ,laying,joininging & field testing of High Density Polyethylene pipes (HDPE)confirming to 984/14151/12786/13488 with necessary jointing material like mechanical connector jointingpipes by heating to the ends of pipes with the help of Teflon coated electric merior/heater to the required temperature and then pressing the ends togheter againsts each other .to form a monolithic & leak proof joint by thermosetting process .It may be required to be done with Jacks/Hydraulic Jacks /But fusion machine.(50mm& above fusion jointed & below 50 mm mechanical jointed) (PN--6)								
42	7.1.14	200 mm dia. PN-6	Meter	1	100			100	1151	115100
43	MPPWD 2025 SOR 6.14	Providing and laying factory made coloured chamfered edge Cement Concrete paver blocks of required strength, thickness and size/shape, made by table vibratory method using PU mould, laid in required colour and pattern over 50mm thick compacted bed of stone dust, compacting and proper embedding/laying of inter locking paver blocks into the 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 including locking edges with M 15 cement concrete in footpath, light traffic parking etc. complete as per direction of Engineer-in-Charge.								
44		100mm thick C.C. paver block of M-35 grade with approved colour, design and pattern.	Sqmt	2	550	1.5		1650	837	1381050
45	MPPWD BLD 2024 SOR 4.1	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete inposition to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 sand)including making joints with or without grooves (thickness of joints except at sharp curve shall notto 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								
46			Cu. Mt.	4	550	0.15	0.45	149		
47	MPPWD BLD 2024 SOR 4.4	5 % EXTRA FOR JUNCTIONS	Cu. Mt.					7.425		
48	MPPWD BLD 2024 SOR 4.4.1	Total	Cu. Mt.					156	6097	950675
49	MPPWD BLD 2024 SOR 4.1	Providing and laying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centering, shuttering and finishing								
50		M-15 (With 20mm nominal size graded stone aggregate)	Cu. Mt.	1	550	0.15	0.1	8		
51		M-15 - Grade concrete	Cu. Mt.	1	550	0.15	0.2	17		
52		Total	Cu. Mt.					25	4471	110657.25
53	MPPWD BLD 2024 SOR 4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :								
54	MPPWD BLD 2024 SOR 4.3.1	Upto plinth: Foundations, footings, bases for columns, plinth beams, curtain walls, columns below plinth.	Sqm	1	550	0	0.3	165	169	27885
55	MPPWD BLD 2024 SOR 5.1	Providing and laying in position specified grade of reinforced cement concrete (nominal / design mix with 20mm nominal size graded stone aggregate) excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :								
56	5.1.1	M-20 Grade Concrete	Cu. Mt.	1	550	0.2	0.3	33	6153	203049

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S.no.	SOR & Non sor Items	Description	Unit	NO	L	W	D	QTY	Rate	Amount
57	MPPWD BLD 2024 SOR 5.16	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire all wastages and overlaps, couplers (overlaps shall be provided as per requirement of IS 13920 for ductile detailing IS 456 RCC Design & SP 34 Reinforcement detailing) etc. complete . (Note:- 1. Spacer bars (chairs) shall be paid separately as shown in the drawing and as per direction of engineer in charge.2. No extra payment shall be done for overlaps and/or couplers. 3. Couplers shall be conforming to IS code on "Reinforcement Couplers for Mechanical Splices of Bars for Concrete Reinforcement - Specification")								
58	MPPWD BLD 2024 SOR 5.16.6	Thermo-Mechanically Treated bars. FE 500 D or more conforming to IS 1786	KG			125	80	10000	80	800000
59	MPUADD Road Sor 2025 8.28	Providing and erecting 2.00meters high temporary barricading at site; each panel of size 2.50mx2.00m made of 40x40x6mm angle iron or 50x50x3mm hollow MS tube posts/horizontal members/bracings covered with 1.63mm thick MS sheet. The sheet shall be fixed with 30x5mm MS flat by suitable welding/riveting. The panels shall be made so that gap of 50cm above the ground is available making overall height as 2.5m. MS channel ISLC 75 @ 5.70 kg/m, 50cm long shall be provided at the bottom having oval shaped holes of size 50x25mm at both ends with 50cm long MS angle 40x40x6mm bracing. Suitable arrangement shall be made to fix the barricading to avoid from overturning by providing 250mm long expansion fasteners at both ends. The work shall be executed as per drawing/ direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs, marking, flags, caution tape as directed by the Engineer-in-Charge. The barricading provided shall be retained in position at site continuously including shifting of barricading from one location to another location as many times as required during the execution of the entire work till its completion. Rate include its maintenance for damages, painting, all incidentals, labour materials, equipment and works required to execute the job. The barricading shall not be removed without prior approval of Engineer-in-Charge.	meter					1100	3891	4280100
60	MPPWD Road & bridge 2025 SOR , item no. 2.12 and page no. 7	Removal of Cement Concrete Pipe of Sewer Gutter Removal of cement concrete pipe of sewer gutter up to 1500 mm dia under the supervision of concerned department including disposal with all lifts and up to a lead of 1000 meters and stacking of serviceable and unserviceable material separately but excluding earth	Meter	1000					209	209000
MPPWD SOR Road 2025 & MPPWD SOR BLD 2024 & MP UADD SOR water work -2021									TOTAL	2,07,61,744


अभिषेक कुमार
 सहायक उप-इंजीनियर (सि.वि.)
 इंदौर स्मार्ट सिटी डेवलपमेंट लि.
 EXECUTIVE ENGINEER
 CIVIL
 इंदौर स्मार्ट सिटी डेवलपमेंट लि.
 ISCDL

Esti of 7.5 Meter Road (Cement Concrete Pavement)

S.no.	SOR & Non sor Items	Description	Unit	NO	L	W	D	QTY	Rate	Amount
1	MPPWD Road & bridge 2025 SOR, item no. 2.2 and page no. 5	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees having girth up to 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material up to a lead of 1000 meters including removal and disposal of top organic soil not exceeding 150 mm in thickness.	Hectare	1				0.50	29409	14704.5
2	i	In area of light jungle	Hectare	1				0.50	23080	11540
3	ii	In area of thorny jungle								
4	MPUADD SOR vol 2 item 2.1	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m.	100/sqm	1				80	1003	80240
5	2.1.1	All kinds of soil.								
6	MPPWD Road & bridge 2025 SOR 3.3	Excavation in Soil using Hydraulic Excavator and Tipper with disposal upto 1000 metres. Excavation for roadwork in soil with hydraulic excavator including cutting and loading in tipper, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location with all lifts and lead upto 1000m as per relevant clauses of	cum	1	300	7.5	0.85	1913	79	151087.5
7	MPPWD Road & bridge 2025 SOR, item no. 1.1.2 and page no.02	Transportation By Mechanical Transport including loading, unloading and stacking. Beyond 10km up to 20 km	Cu. Mt.	1				6900	150.9	1041210
8	MPPWD Road & bridge 2025 SOR, item no. 2.5 and page no. 6	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling Serviceable material at designated locations and disposal of unserviceable materials up to a lead of 1000 meters,	Cum	1				350	1296	453600
9	MPPWD SOR 2025 2.7	Dismantling Kerb Stone Dismantling kerb stone by manual means and disposal of dismantled material with all lifts and up to a lead of 1000 meter	Meter	1				100	15	1500
10	MPPWD Road & bridge 2025 SOR 3.13	Construction of Embankment with Material Deposited from Roadway Cutting Construction of embankment with approved materials CBR>7 deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of table 300-1, 300-2 and as per relevant clauses of section-300.	Cu. Mt.	1	300	5.5	0.6	990		
11		5 % EXTRA FOR JUNCTIONS	Cu. Mt.					49.5		
12		15 % EXTRA Filling	Cu. Mt.					148.5		
13		Total	Cu. Mt.					1188	298	354024
14	MPPWD Road & bridge 2025 4.14	Construction of Shoulders with approved material/selected soil i/c excavation all lifts & leads i/c grading to required slope & camber of 4% and compacting using vibratory roller of 80 to 100 kN static weight to meet requirement as per relevant clause of 400.	Cu. Mt.	2	300	1	0.6	360	398	143280
15		Earthen Shoulders (CBR value >7)								
16	MPPWD Road & bridge 2025 SOR 4.1	Granular Sub-base with Well Graded Material (CBR>30 or more) (Table:- 400-1 & Table 400-2) Construction of granular sub-base by providing well graded material like natural sand crushed gravel or crushed stone having CBR >30, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator or plant mix method at OMC, and compacting with vibratory rollers of 80 to 100 kN static weight to achieve the desired density, complete as per Clause 401 of Specification.	Cu. Mt.	1	300	7.5	0.15	338		
17		5 % EXTRA FOR JUNCTIONS	Cu. Mt.					16.875		
18		Total	Cu. Mt.					354	1114	394773.75
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20	MPPWD Road & bridge 2025 SOR 6.1	Dry Lean Cement Concrete Sub- base Construc of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggre. - conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 810 tonnes vibratory roller, finishing and curing as per clause 601 of specification complete in all respect	Cu. Mt.	1	300	7.5	0.1	225		0
21		5 % EXTRA FOR JUNCTIONS	Cu. Mt.					11.25		
22		Total	Cu. Mt.					236	2712	640710
23	MPPWD Road & bridge 2025 SOR 1.3	Supply of following material including all lead and stacking etc. complete.								
24		Crusher stone dust	Cu. Mt.					150	300	45000
25	MPPWD Road & bridge 2025 SOR 6.15	Providing and laying reinforced cement concrete pipe NP-4 for service ducts below concrete pavement.								
26		300 mm dia.	meter	1	100			100	850	85000
27	UADD SOR Vol.1 2021, S.No. 7.1 Pg 103	Providing ,laying,joining & field testing of High Density Polyethylene pipes (HDPE)confirming to 984/14151/12786/13488 with necessary jointing material like mechanical connector jointingpipes by heating to the ends of pipes with the help of Telfon coated electric merrior/heater to the required temperature and then pressing the ends together againsts each other .to form a monolithic & leak proof joint by thermosetting process .it may be required to be done with Jacks/Hydraulic Jacks /But fusion machine.(50mm& above fusion jointed & below 50 mm mechanical jointed) (PN-6)								
28	7.1.14	200 mm dia. PN-6	meter	1	100			100	1151	115100
29										
30	MPPWD Road & bridge 2025 SOR , item no. 2.12 and page no. 7	Removal of Cement Concrete Pipe of Sewer Gutter Removal of cement concrete pipe of sewer gutter up to 1500 mm dia under the supervision of concerned department including disposal with all lifts and up to a lead of 1000 meters and stacking of serviceable and unserviceable material separately but excluding earth excavation and dismantling of masonry works.	Meter	350					209	73150
31	MPPWD BLD 2024 SOR 15.3 vol 2	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in- Charge.	cum					50	844	42200
32	MPPWD BLD 2024 SOR 15.4 vol2	Extra for cutting reinforcement bars manually/ by mechanical means in R.C.C. work (Payment shall be made on the cross sectional area of R.C.C. work) as per direction of Engineer-in- Charge.	sqm					200	276	55200
33	MPPWD BLD 2024 SOR 15.4 vol2	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.								
34	MPPWD BLD 2024 SOR 15.6.3 vol 2	In cement mortar	cum					100	487	48700
35	MPPWD BLD 2024 SOR 15.11 vol2	Dismantling tile/ Kota stone/ Marble / Granite work in floors/walls and roofs laid in cement mortar including stacking material within 50 metres lead.	sqm					1650	26	42900
36	MPPWD BLD 2024 SOR 15.11.2 vol 2	For thickness of tiles above 25 mm and upto 40 mm.								

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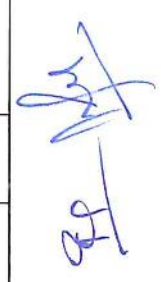
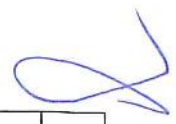
37	MPUADD Road Sor 2025 8.28	<p>Providing and erecting 2.00meters high temporary barricading at site; each panel of size 2.50mx2.00m made of 40x40x6mm angle iron or 50x50x3mm hollow MS tube posts/horizontal members/bracings covered with 1.63mm thick MS sheet. The sheet shall be fixed with 30x5mm MS flat by suitable welding/riveting. The panels shall be made so that gap of 50cm above the ground is available making overall height as 2.5m. MS channel ISLC 75 @ 5.70 kg/m, 50cm long shall be provided at the bottom having oval shaped holes of size 50x25mm at both ends with 50cm long MS angle 40x40x6mm bracing. Suitable arrangement shall be made to fix the barricading to avoid from overturning by providing 250mm long expansion fasteners at both ends. The work shall be executed as per drawing/ direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs, marking, flags, caution tape as directed by the Engineer-in-Charge. The barricading provided shall be retained in position at site continuously including shifting of barricading from one location to another location as many times as required during the execution of the entire work till its completion. Rate include its maintenance for damages, painting, all incidentals, labour materials, equipment and works required to execute the job. The barricading shall not be removed without prior approval of Engineer-in-Charge.</p>	Meter	600	3891	2334600			
38	MPPWD 2025 SOR 6.14	<p>Providing and laying factory made coloured chamfered edge Cement Concrete paver blocks of required strength, thickness and size/shape, made by table vibratory method using PU mould, laid in required colour and pattern over 50mm thick compacted bed of stone dust, compacting and proper embedding/laying of inter locking paver blocks into the 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 including locking edges with M 15 cement concrete in footpath, light traffic parking etc. complete as per direction of Engineer in Charge.</p>							
39		100mm thick C.C. paver block of M-35 grade with approved colour, design and pattern.	Sqmt	1	300	7.5	2250	837	1883250
40	MPUADD Road Sor 2025 12.1	Providing steel liner 10 mm thick for curbs and 6mm thick for steining of well including fabricating and setting out as per detailed drawing and specifications as per sections 1200 and 1900 of the specifications.	tonne	12				98497	1181964
MPPWD SOR Road 2025 & MPPWD SOR BLD 2024 & MP UADD SOR water work -2021 TOTAL 9193733.75									




 Sub-Engineer (Civil)
 EXECUTIVE ENGINEER
 Jharkhand Smart City Development Ltd.

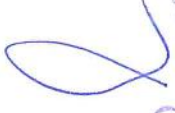
Estim: f 6 Meter Road (Cement Concrete Pavement)

S.no.	SOR & Non sor Items	Description	Unit	NO	L	W	D	QTY	Rate	Amount
1	MPPWD Road & bridge 2025 SOR, item no. 2.2 and page no. 5	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees having girth up to 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material up to a lead of 1000 meters including removal and disposal of top organic soil not exceeding 150 mm in thickness.	Hectare	1				0.50	29409	14704.5
2	i	In area of light jungle	Hectare	1				0.50	23080	11540
3	ii	In area of thorny jungle								
4	mpuadd vol 2 item 2.1	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m.	100/sqm					80	1003	80240
5	2.1.1	All kinds of soil.								
6	MPPWD Road & bridge 2025 SOR 3.3	Excavation in Soil using Hydraulic Excavator and Tipper with disposal upto 1000 metres. Excavation for roadwork in soil with hydraulic excavator including cutting and loading in tipper, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location with all lifts and lead upto 1000m as per relevant clauses of section-300 of specification.	cum	1	600	6	0.85	3060	79	241740
7	MPPWD Road & bridge 2025 SOR, item no. 1.1.2 and page no.02	Transportation By Mechanical Transport including loading, unloading and stacking. Beyond 10km up to 20 km	Cu. Mt.	1				5900	150.9	890310
8	MPPWD Road & bridge 2025 SOR, item no. 2.5 and page no. 6	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling Serviceable material at designated locations and disposal of unserviceable materials up to a lead of 1000 meters,	Cum	1				350	1296	453600
9	MPPWD SOR 2025 2.7	Dismantling Kerb Stone Dismantling kerb stone by manual means and disposal of dismantled material with all lifts and up to a lead of 1000 meter	Meter	1				350	15	5250
10	MPPWD Road & bridge 2025 SOR 3.13	Construction of Embankment with Material Deposited from Roadway Cutting Construction of embankment with approved materials CBR>7 deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of table 300-1, 300-2 and as per relevant clauses of section-300.	Cu. Mt.	1	600	4	0.6	1440		
11		5 % EXTRA FOR JUNCTIONS	Cu. Mt.					72		
12		15 % EXTRA Filling	Cu. Mt.					216		
13		Total	Cu. Mt.					1728	298	514944
14	MPPWD Road & bridge 2025 4.14	Construction of Shoulders with approved material/selected soil i/c excavation all lifts & leads i/c grading to required slope & camber of 4% and compacting using vibratory roller of 80 to 100 kN static weight to meet requirement as per relevant clause of 400.	Cu. Mt.	2	600	1	0.6	720	398	286560
15		Earthen Shoulders (CBR value >7)								
16	MPPWD Road & bridge 2025 SOR 4.1	Granular Sub-base with Well Graded Material (CBR>30 or more) (Table:- 400-1 & Table 400-2) Construction of granular sub-base by providing well graded material like natural sand crushed gravel or crushed stone having CBR >30, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator or plant mix method at OMC, and compacting with vibratory rollers of 80 to 100 kN static weight to achieve the desired density, complete as per Clause 401 of Specification.	Cu. Mt.	1	600	6	0.15	540		
17		5 % EXTRA FOR JUNCTIONS	Cu. Mt.					27		

18		Total	Cu. Mt.			567	1114	631638
19								0
20	MPPWD Road & bridge 2025 SOR 6.1	Dry Lean Cement Concrete Sub- base Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 810 tonnes vibratory roller, finishing and curing as per clause 601 of specification complete in all respect	Cu. Mt.	1	600	6	0.1	360
21		5 % EXTRA FOR JUNCTIONS	Cu. Mt.			18		
22		Total	Cu. Mt.			378	2712	1025136
23	MPPWD Road & bridge 2025 SOR 1.3	Supply of following material including all lead and stacking etc. complete.						
24		Crusher stone dust	Cu. Mt.			150	300	45000
25	MPPWD Road & bridge 2025 SOR 6.15	Providing and laying reinforced cement concrete pipe NP-4 for service ducts below concrete pavement.						
26		300 mm dia.	meter	1	50		850	42500
27	UADD SOR Vol.1 2021, S.No. 7.1 Pg 103	Providing ,laying, jointing & field testing of High Density Polyethylene pipes (HDPE) conforming to 984/14151/12786/13488 with necessary jointing material like mechanical connector jointing pipes by heating to the ends of pipes with the help of Telfon coated electric merrior/heater to the required temperature and then pressing the ends together againsts each other ,to form a monolithic & leak proof joint by thermosetting process .It may be required to be done with Jacks/Hydraulic Jacks /But fusion machine.(50mm& above fusion jointed & below 50 mm mechanical jointed) (PN--6)						
28	7.1.14	200 mm dia. PN-6	meter	1	48		1151	55248
29	MPPWD Road & bridge 2025 SOR , item no. 2.12 and page no. 7	Removal of Cement Concrete Pipe of Sewer Gutter Removal of cement concrete pipe of sewer gutter up to 1500 mm dia under the supervision of concerned department including disposal with all lifts and up to a lead of 1000 meters and stacking of serviceable and unserviceable material separately but	Meter	200			209	41800
30	MPPWD BLD 2024 SOR 15.3 vol 2	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-Charge.	cum				844	32916
31	MPPWD BLD 2024 SOR 15.4 vol2	Extra for cutting reinforcement bars manually/ by mechanical means in R.C.C. work (Payment shall be made on the cross sectional area of R.C.C. work) as per direction of Engineer-in-Charge.	sqm				276	22080
32	MPPWD BLD 2024 SOR 15.4 vol2	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.						
33	MPPWD BLD 2024 SOR 15.6.3 vol 2	In cement mortar	cum				487	24350
34	MPPWD BLD 2024 SOR 15.11 vol2	Dismantling tile/ Kota stone/ Marble / Granite work in floors/walls and roofs laid in cement mortar including stacking material within 50 metres lead.	sqm				26	16900
35	MPPWD BLD 2024 SOR 15.11.2 vol 2	For thickness of tiles above 25 mm and upto 40 mm.						

36	MPUADD Road Sor 2025 8.28	Providing and erecting 2.00meters high temporary barricading at site; each panel of size 2.50mx2.00m made of 40x40x6mm angle iron or 50x50x3mm hollow MS tube posts/horizontal members/bracings covered with 1.63mm thick MS sheet. The sheet shall be fixed with 30x5mm MS flat by suitable welding/riveting. The panels shall be made so that gap of 50cm above the ground is available making overall height as 2.5m. MS channel ISLC 75 @ 5.70 kg/m, 50cm long shall be provided at the bottom having oval shaped holes of size 50x25mm at both ends with 50cm long MS angle 40x40x6mm bracing. Suitable arrangement shall be made to fix the barricading to avoid from overturning by providing 250mm long expansion fasteners at both ends. The work shall be executed as per drawing/ direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs, marking, flags, caution tape as directed by the Engineer-in-Charge. The barricading provided shall be retained in position at site continuously including shifting of barricading from one location to another location as many times as required during the execution of the entire work till its completion. Rate include its maintenance for damages, painting, all incidentals, labour materials, equipment and works required to execute the job. The barricading shall not be removed without prior approval of Engineer-in-Charge.	meter	1200	3891	4669200			
37	MPPWD 2025 SOR 6.14	Providing and laying factory made coloured chamfered edge Cement Concrete paver blocks of required strength, thickness and size/shape, made by table vibratory method using PU mould, laid in required colour and pattern over 50mm thick compacted bed of stone dust, compacting and proper embedding/laying of inter locking paver blocks into the 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 including locking edges with M 15 cement concrete in footpath, light traffic parking etc. complete as per direction of Engineer-in-Charge.							
38		100mm thick C.C. paver block of M-35 grade with approved colour, design and pattern.	Sqmt	1	600	6	3600	837	3013200
39	MPUADD Road Sor 2025 12.1	Providing steel liner 10 mm thick for curbs and 6mm thick for steining of well including fabricating and setting out as per detailed drawing and specifications as per sections 1200 and 1900 of the specifications.	tonne	12				98497	1181964
MPPWD SOR Road 2025 & MPPWD SOR BLD 2024 & MIP UADD SOR water work -2021 TOTAL									
1,33,00,821									


ARIF ALI
 Sub-Engineer (Civil)
 JSCDL

Executive Engineer
 Executive Civil Development Unit
 JSCDL

Estimated of Under Ground Sewer line laying work ,Manholes ,Constructions work .

DETAILED ESTIMATE Sewerage line 3500 (MTS.)

Sr.No.	Ref.	Description of Item	Unit	Nos.	Length	Width Average	Depth Average	Quantity	Total Qty	Rate	Amount
1	MP-UADD SOR-water supply S.No.18.5.1	Pipe Line laying by open cut method Demolishing cement concrete manually/by mechanical means including disposal of material within 50 meters lead as per direction of Engineer-in-charge. 1:3:6 or richer mix	Cum	1	3500.00	2.10	0.20	1470.00	1470.00	534.0	784980.0
2	MP-UAD SOR,Water supply & Sewerage 18.2.1	Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means / manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. Extra for every additional lift of 1.5m or part thereof over item 18.2 (Note: Only for depth of trench exceeding 1.5m for laying of sewer line & water line and manhole/ chambers including all site clearances, adequate barricades, construction signs, red lanterns and guards as required, dewatering, scaffolding, timbering, machinery, tools implements and generally of all means used for the fulfillment of these items.) 20% extra of the rate of excavation.									
3		All Kinds of soil				Average					
4	18.2.1.1	0 to 1.5 m lift	Cum	1	3500.0	2.10	1.50	11025.00	11025.00	151.00	1664775.0
5	18.2.1.2	1.5 to 3.0 m lift	Cum	1	3500.0	1.80	1.50	9450.00	9450.00	181.20	1712340.0
6	18.2.1.3	3.0 to 4.5 m lift	Cum	1	3500.0	1.50	1.50	7875.00	7875.00	217.44	1712340.0
7						Average					
8	MP-UAD SOR,Water supply & Sewerage works 18.3.3	Filling with moorum for pipe bedding or over the pipe including supply of moorum/sand	cum	1	3500.0	2.10	1.00	7350.00	7350.00	720.0	5292000.0
9											
10	MP-UAD SOR,Building works 18.2.8	Filling by 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	55%	28350.00			15592.50	15592.50	89.0	1387733
11		Providing, Laying and jointing non- pressure (NP-III) RCC socket & spigot Pipes with rubber gasket joint including testing of joints (Conforming to IS 458-1988 ISI marked laying as per IS 783-1985)									
12	MP-UAD SOR, Vol-1 Item No. 12.3	RCC Pipes NP 3 Class									
13		300 mm dia	M	1.00	1000.00			1000.00	1000.00	964.00	964000.0
16		450mm dia	M	1.00	2000.00			2000.00	2000.00	2287.00	4574000.0
17		500mm dia	M	0.00	0.00			0.00	0.00	2533.00	0.0
18		600mm dia	M	1.00	500.00			500.00	500.00	3549.00	1774500.0
19	MP-UAD SOR,Road works at Item no-1.1	Loading and unloading of stone boulder/stone aggregates/sand/kankar/moorum & earth (placing tipper at loading point , loading with front end loader, dumping turning for return trip, excluding time for haulage and return trip.									
20		For a lead upto 2 Km	cum	30%	12757.50			3827.25	3827.25	107.35	410855.3
21		For a lead upto 5 Km	cum	70%	12757.50			8930.25	8930.25	148.81	1328910.5
22		Pipe Laying By Trenchless Method									

Sr.No.	Ref.	Description of Item	Unit	Nos.	Length	Width	Depth	Quantity	Total Qty	Rate	Amount
23	MP-UAD SOR, Building works 20.44	Trenchless Pipe pushing method of suitable dia hole below natural ground level and pushing MS casing pipe and insertion of carrier pipe and anti corrosive treatment, epoxy painting, PU coating and insulation sheet / spacer including excavation, shoring/ strutting, preparation and maintaining the entry and exit pit, excluding cost of Supply, laying and jointing of MS casing Pipe and carrier Pipe (For Railway and Highway crossings, Nallah crossings)									
24		In all type of soil, Mooroom									
25	20.44.1.2	More than 600mm and upto 1000mm Providing, Laying and Jointing non-pressure (NP4) RCC socket & spigot pipes with rubber gasket joint including testing of joints to IS 458-1988 ISI marked laying as per IS 783-1985 (for trenchless)	RMT	1	200.00				200.00	14860.0	2972000.0
26	MP-UAD SOR, Vol-1 Item No. 12.5 at page 156										
27		RCC Pipes NP 4 Class									
28		450mm dia	M	1.00	360.00				360.00	2681	965160.0
29		600mm dia	M	1.00	120.00			120.00	120.00	4173.0	500760.0
30	MP-UAD SOR, Water supply & Sewerage 19.9	Manufacturing, providing and supplying spirally welded/ERW/SAW/ fabricated M.S. Pipes (Commercial Quality) including procurements of plates, gas cutting to required size rolling, tack welding assembling in suitable lengths to form pipes, welding on automatic welding machine and forming "y" edge on both ends of pipes railway freight, insurance unloading from railway wagon, loading into truck, transport to stores /site unloading, stacking etc, complete as per IS 3589 and IS 5504 as applicable as per specifications (No negative tolerance in thickness is permissible).	Kg	48.00	-	18.00	-	864.00	864.00	83.0	71712.0
31		Manhole Construction, Encasing & RCC Jacketing			Average	Average					
32	MP-UAD SOR, Water supply & Sewerage works 18.14	Providing and laying Cement Concrete grade M-10 Nominal mix 1:3:6 with 40mm graded crushed stone aggregate, spreading the concrete by shovels mixing shall be in mechanical mixer, compacting by use of piny/plate/screed vibrators including form work by strong steel girders fixed by spikes. for PCC work	Cum	5	2.60	2.60	0.30	10.14	10.14	4112.0	41695.7
33					Average	Average					
34	MP-UAD SOR, Vol-1 18.14.4	Cement concrete grade M-15 (Nominal Mix) with 20 mm maximum size of stone aggregate for Manhole work	Cum	5				5.83	5.83	4755.0	27715.1
35	MP-UAD SOR, Water supply & Sewerage works 18.15	Providing and laying in position M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement For Jacketing work	Cum	5				1.09	1.09	5435.0	5938.9
36	MP-UAD SOR, Water supply & Sewerage works 18.40	Brick work with modular fly ash lime bricks (FALG Bricks) conforming to IS:12894-2002, class designation 50 Kg/cm2 average compressive strength in superstructure level up to plinth level including the cost of scaffolding : Cement Mortar 1:4 for Manhole work	Cum	5	3.14	1.03	0.50	8.09	8.09	4531.0	36635.4
37	MP-UAD SOR, Water supply & Sewerage works 18.45	12 mm cement plaster of mix : 1:4 (1 cement: 4 sand)	Sqmt	5	3.14*(1.5+0.96)/2*H			96.56	96.56	149.0	14386.7
38	MP-UAD SOR, Water supply & Sewerage works 18.5	20 mm thick cement plaster in single coat including finishing even, smooth and curing i/c cost of form work complete.	Sqmt	5	3.14*(1.5+0.56)/2*H			80.86	80.86	262.0	21184.0

20 April - 8

Sr.No.	Ref.	Description of Item	Unit	Nos.	Length	Width	Depth	Quantity	Total Qty	Rate	Amount
39	MP-UAD SOR, Water supply & Sewerage 18.23.0	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding upto floor level including cost of binding wire, wastage and over laps upto 12mm horizontal/ inclined position of reinforcement bars in slab and beams, plinth, chajjas, lintels, upto 4.5m vertical length of reinforcement in wall columns (over laps shall be provided as per requirement of IS : 13920; IS 456 & SP : 34) etc. complete. Hot rolled deformed bars	Kg	5	4.2		0.30	92.10	92.10	58.0	5341.8
40	MP-UAD SOR, Building 17.17	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910 on 12mm dia steel bar conforming to IS : 1786 having minimum cross section as 23 mmx25mm and over all minimum length 263 mm and width as 165mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block grade M-10 (Nominal Mix with 20 mm maximum size of stone aggregate) complete as per design.	No's	5	13.00			65.00	65.00	268.0	17420.0
41	MPJ -2021-22	Providing & fixing of Steel fibre reinforced concrete. manhole cover and frame (S.F.R.C.) including cost of transporting at site and all material etc. complete. (SFRCC manhole cover)(20tonnes capacity)	No's	100				100.00	100.00	3973.0	397300.0
42											
43											
44											
45	MP-UAD SOR, Water supply & Sewerage works at page 265 (As per New amendment 05.07.2024 page 05)	Extra for Excavation of Driven pit/ Exit pit/ Inter mediate pit beyond 3.0 M depth, required for pushing /pulling of MS/HDPE/RCC etc. Pipe in trenchless technology, with proper protection at Three sides with shoring sheets/ Wooden planks & ISMB, Maintaining during Pushing/ Pulling of pipe, Back feeling, necessary dewatering including all machinery , tools & tackles required as per specification & the direction of engineer in charge.									
46	MP UADD SOR water sewer 2021 17.28.1	Pumping out to remove these sewers blockage by using suitable pumps operated by generators, wholes assembly mounted on fourwheel trailer/ pickupvan including diesel and labour charges etc.	Per Kl.						1,00,000.00	89	89,00,000.00

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Sr.No.	Ref.	Description of Item	Unit	Nos.	Length	Width	Depth	Quantity	Total Qty	Rate	Amount
47	MP-UAD SOR, Water supply & Sewerage 17.11	Providing, fixing and constructing of pre-cast RCC M-40 grade circular manholes with internal dia. 1500mm and 1555mm depth, conical piece, wall thickness 125mm, and jointing of circular rings of required height as per depth of manhole below conical piece and having steel reinforcement in all pieces of manhole including cast-in-situ PCC M-10 grade (1:3:6) foundation, PCC M-10 grade benching and channel portion complete with curing, compaction and form work, supplying and fixing of plastic encapsulated CI/MS foot steps, supply & fixing of heavy duty (HD-20) SFRC cover and frame as per IS 12592 fixed in Cement concrete 1:2:4 (nominal mix) with stone aggregate 20mm nominal size including centering and shuttering, steel reinforcement etc. complete in all respect including testing for water tightness, as per specification and the direction of the Engineer, Depth of manhole shall be considered as the vertical distance from top of the manhole cover to the outgoing invert of main drain channel (as per Drawing No. - 15J,K,L) [Note:- Excavation as per actual shall be paid separately]	No's	5				5.00	5.00	24395.0	121975.0
48	MP-UAD SOR, Water supply & Sewerage works17.11.1	Extra for increasing depth of manhole beyond 1555mm and upto 6000mm with extension piece of internal dia 1500mm as per drawing and direction of Engineer. (Excavation as per actual shall be paid separately)	Mtr	5				5.00	5.00	11818.0	59090.0
49	MP-UAD SOR, Water supply & Sewerage 17.10	Providing, fixing and constructing of pre-cast RCC M-40 grade circular manholes with internal dia. 1200mm and 1255mm depth, conical piece, wall thickness 125mm, and jointing of circular rings of required height as per depth of manhole below conical piece and having steel reinforcement in all pieces of manhole including cast-in-situ PCC M-10 grade (1:3:6) foundation, PCC M-10 grade benching and channel portion complete with curing, compaction and form work, supplying and fixing of plastic encapsulated CI/MS foot steps, supply & fixing of heavy duty (HD-20) SFRC cover and frame as per IS 12592 fixed in Cement concrete 1:2:4 (nominal mix) with stone aggregate 20mm nominal size including centering and shuttering, steel reinforcement etc. complete in all respect including testing for water tightness, as per specification and the direction of the Engineer, Depth of manhole shall be considered as the vertical distance from top of the manhole cover to the outgoing invert of main drain channel (as per Drawing No. - 15E,F,G,H) [Note:- Only Excavation as per actual shall be paid separately]	No's	90				90.00	90.00	18568.0	1671120.0
50	MP-UAD SOR, Water supply & Sewerage works17.10.1	Extra for increasing depth of manhole beyond 1255mm and upto 1554mm with extension piece of internal dia 1200mm as per drawing and direction of Engineer. (Excavation as per actual shall be paid separately)	Mtr	90				90.00	90.00	9135.0	822150.0
MP UADD SOR water work-2021 TOTAL										38258017.9	


 ARIF ALI
 Executive Engineer
 District Sub-Engineer (C/W)
 ISCDL
 Indore Smart City Development
 (M)

Estimated of Under ground Water line laying Work ,Manholes ,Constructions Work ,Sump ,Tubewell boring work and Pump installations.

SI No.	SOR Ref	Description of work	Unit	Rate	Quantity	Amount
1	MPUADD 2025 ROAD 3.9 Vol. I	Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means / manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed.				
2	MPUADD 2025 ROAD 3.9.1	All kind of ordinary soil (0 to 1.5m)	Cum	175	5100	892500
3	UADD SOR Vol.1-2021, S.No.18.2.8 Pg.No-228	Filling available excavated earth in trenches, plinth sides of foundation in layers not exceeding 20cm. in depth including consolidation of each layer by ramming watering (pipe removal & laying)	Cum	89	2500	222500
4	UADD SOR Vol.1-2021, S.No.18.12 Pg.No-229	Dismantling of cement concrete pavement / breaking topieces not exceeding 0.02 cum in volume and stockpiling at designated locations and disposal of dismantled materials up to a lead upto 1000 meter, stacking serviceable and unserviceable materials separately and as per relevant clauses of section-200	Cum	749	500	374500
5	MJP SOR 2023-24 H Item no 10 (X) page no-58	Making cross connection to existing distribution main of any type including excavation, breaking and removing existing pipes, lowering, laying of specials and pipes in their position, refilling, closing the water supply in that area, dewatering and restarting the water supply, etc. complete as directed by Engineer-in-charge for following diameters of existing pipeline, irrespective of diameter of branch line. (The number of joints involved will be paid separately depending upon the nature of joints and required pipes, valves and specials will be supplied free of cost at stores.				
6		150 mm	No.	4182	4	16728
7		200 mm	No.	4378	4	17512
8	Addendum UADD SOR 2024 vol-1 item no 4.1 Page no 01	Providing, laying, jointing & testing of socket & Spigot centrifugally cast (Spun) Ductile iron pressure pipes with inside cement mortar (Class k-7) with Suitable Rubber Gasket (Push On) joint as per IS5382/85 including testing of joint				
9	4.1.5	250mm diameter	Rmt	2906	20	58120
10	4.1.6	300mm diameter	Rmt	3571	100	357100
11	4.1.8	400mm	Rmt	5328	400	2131200
12	UADD SOR Vol.1-2021, S.No.4.11.10 Pg.No-61	Providing & laying Ductile iron Mechanical joint collar with follower glands conforming to IS-9523/2000 having dimension as per table 24 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining.				
13	4.11.6	300mm diameter	Each	5782	5	28910
14	4.11.8	400mm	Each	12198	5	60990
15	UADD SOR Vol.1-2021, S.No.4.9 Pg.No-60	Providing, laying and testing ductile iron flanged spigot conforming to IS-9523/2000 having dimension as per table 24 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining with finishing as per clause 13 of IS-9523/2000				
16	4.9.6	300mm diameter	Each	3507	2	7014
17	4.9.8	400mm	Each	7716	5	38580
18	4.13	Providing & laying Ductile iron Dismantling joint				
19	4.13.8	400mm	Each	16046	4	64184
20	UADD SOR Vol.1-2021, S.No.4.25 Pg.No-68	Providing & Laying Ductile Iron Double Socket branch flange Tee conforming to IS-9523/2000 having dimension as per table 21 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining with finishing as per clause 13 of IS-9523/2000. (All sizes in mm)				
21	4.25.21	300x300	Each	6816	1	6816
22	4.25.30	400x400	Each	15180	1	15180
23	UADD SOR Vol.1-2021, S.No.4.27 Pg.No-69	Providing, Laying ductile iron Double Socket Reducer conforming to IS-9523/2000 having dimension as per table 21 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining with finishing as per clause 13 of IS-9523/2000.				
24	4.27.14	400x300	Each			


 Date: _____

25	UADD SOR Vol.1-2021, S.No.14.10 Pg.No-178	Providing, fixing, jointing, supplying & Testing ... site of ductile iron / spheroidal graphite (S.G.) iron D/F non-rising single resilient seated glandless sluice valves with handwheel & without bypass arrangement. Valves in accordance with BS 5163 of PN-10/16 rated, with body and bonnet of ductile iron conforming to IS 1865 Gr. 500/7 or Gr.400/15. Wedge fully encapsulated WRAS approved EPDM rubber (approved for drinking water), Wedge nut o brass, shaft of stainless steel 1.4021/1.4104, stem seals min.3 nos. of NBR, internal fasteners of stainless steel A2.Body& Bonnet coated inside & outside with electrostatically applied epoxy powder coated blue colour (suitable for drinking water) as per DIN 30677-2 & GSK guidelines with a coating thickness of min. 250 microns. Valves should be full bore & tight shut-off. Flange drilling as per IS 1538 raised face & pressure testing at manufactures works shall be done as per IS 14846. all complete. (For PN 10 & 16).	Each	63251	1	63251
26	14.10.6	250mm dia	Each	84787	3	254361
27	14.10.7	300mm dia	Each	234160	4	936640
28	14.10.9	400mm dia	Each			
29	UADD SOR Vol.1 2021, S.No. 7.1 Pg.103	Providing Jaying, jointing & field testing of High Density Polyethylene pipes (HDPE) conforming to 4984/14151/12786/13488 with necessary jointing material like mechanical connector, jointing pipes by heating to the ends of pipes with the help of Teflon coated electric merrior/heater to the required temperature and then pressing the ends together against each other, to form a monolithic & leak proof joint by thermosetting process. It may be required to be done with Jacks/Hydraulic Jacks /But fusion machine. (50mm & above fusion jointed & below 50 mm mechanical jointed) (PN-10)10 kg	Rmt	544	800	435200
30	7.1.9	110mm	Rmt	1141	200	228200
31	7.1.12	160mm	Rmt	1782	200	356400
32	7.1.14	200mm	Rmt	4329	2000	8658000
33	7.1.18	315mm	Rmt			
34	UADD SOR Vol.1 2021, S.No. 7.9, Pg.108	Providing butt fusion welded joint/jointing by heating to the ends with the help of Teflon coated electric mirror/heater ends together etc. by thermosetting process to HDPE Pipe and specials. (6kg, 8kg, 10kg) (50mm & above fusion jointed & below 50mm mechanical jointed)	Each	154	25	3850
35	7.9.9	110 mm	Each	217	5	1085
36	7.9.12	160mm	Each	245	5	1225
37	7.9.14	200mm	Each	373	40	14920
38	7.9.18	315	Each			
39	MP UADD SOR Vol.1 2021, S.No. 7.16 Pg.114	Providing, Supplying and fixing of Electro Fusion Fittings in accordance with BS EN 12201 : Part-3 suitable for drinking water with in black/blue colour manufactured from compounded PE80/PE100 virgin polymer and compatible with PE80/PE100 pipes, in pressure rated SDR11 with min PN 12.5 rated for water application. The cost such as testing, inspection charges, transportation upto site, transit insurance, loading, unloading, stacking etc. all complete.	Each	845	10	8450
40	7.16.1	Electro Fusion Coupler	Each	2025	5	10125
41	7.16.1.9	110mm	Each	3940	5	19700
42	7.16.1.12	160mm	Each	11481	20	229620
43	7.16.1.14	200mm	Each			
44	7.16.1.18	315mm	Each	2622	10	26220
45	7.16.2	Electro Fusion Tee	Each	7370	5	36850
46	7.16.2.9	110mm	Each	13782	5	68910
47	7.16.2.12	160mm	Each	28710	10	287100
48	7.16.2.14	200mm	Each			
49	7.16.2.18	315mm	Each			
50	7.16.3	Electro Fusion Bend 90	Each	2492	15	37380
51	7.16.3.9	110mm	Each	8252	5	41260
52	7.16.3.12	160mm	Each			
53	7.16.3.14	200mm	Each			

54	7.16.3.18	315mm		Each	31176	20	623520
55	7.16.4	Electro Fusion Reducer					
56	7.16.4.19	160*110		Each	6153	10	61530
57	7.16.4.25	200*160		Each	8447	5	42235
58	7.16.4.31	250*200		Each	12542	20	250840
59	7.16.5	Electro Fusion End Cap					
60	7.16.5.9	110mm		Each	1596	10	15960
61	7.16.5.12	160mm		Each	4099	5	20495
62	7.16.5.14	200mm		Each	5929	5	29645
63	7.16.5.18	315mm		Each	13624	10	136240
64	UADD SOR Vol.1 2021, S.No. 7.16.6 Pg 117	Spigot Long Neck Pipe End (Stub End) for Electro Fusion Joint					
65	7.16.6.4	110mm		Each	965	10	9650
66	7.16.6.7	160mm		Each	2473	5	12365
67	7.16.6.9	200mm		Each	3908	5	19540
68	7.16.6.13	315mm		Each	7855	10	78550
69		House Service Connection (HSC)					
70		Excavation(for HSC pit)		Cum	151	300	45300
71		Electro Fusion Tapping Ferrule Saddle					
72	7.12.19	160*15mm		Each	1129	20	22580
73	7.12.13	110*15mm		Each	1129	30	33870
74	7.11	Providing, Supplying and laying Blue MDPE					
75	7.11.1.1	20mm(6 meter each nos.)		RMT	38	1200	45600
76		Metal inserted Compression Female adaptere					
77	7.13.1	20*15		Each	193	180	34740
78		Metal inserted Compression Male adaptor					
79	7.13.1	20*15		Each	193	170	32810
80		Compression 90 Deg. Elbow					
81	7.13.5.1	20mm		Each	126	180	22680
82	Sr no 6.3 Page 88	Providing and fixing full way gate valves tested to 21.00 kg/sq.cm.					
83							
84	6.3.1	15mm		Each	199	160	31840
85	Sr no 6.1 Page 88	Providing laying and jointing of galvanised Iron Pipes with specials (such as bends, elbows, tees etc) class light, medium & heavy including testing of joints, cost of pipes, specials and jointing materials all complete.					
86	6.1.1	15mm		RMT	113	200	22600
87	6.25 page 94	Providing and fixing G. I. socket in G.I. pipeline i/c cutting threading testing					
88	6.25.1	15mm		Each	22	200	4400
89	14.12	Providing & fixing cast iron double flanged single door reflux (non return) valves including jointing & testing with cost of jointing material such as bolts, nuts and rubber insertion all complete.					
90	14.12.8	300mm dia		Each	17352	3	52056
91	UADD SOR- 2021, vol-1S.No.19.12 P.No-243	Disinfecting C.I./D.I. water mains by flushing with water containing bleaching powder at 0.5 gms per liter of water and cleaning the same with fresh water, operation to be repeated three times including getting the sample of water from the disinfected main tested in the Govt. / Municipal/ Authorised laboratory :					
92		110mm		100 Meter	727	50	364
93		160mm		100 Meter	1094	200	2188
94		200mm		100 Meter	1466	1500	21990
95		300mm		100 Meter	2084	1500	31260

96	MP-UAD SOR, Water supply & Sewerage 17.2	Constructing Brick masonry rectangular manhole in cement mortar 1:4 (Cement:4 fine sand) common Burnt Clay Brick or fly ash bricks, of compressive strength not less than 75 Kgf/cm ² . RCC top slab Cement Concrete 1:2:4 (Nominal Mix) with stone aggregate 20mm nominal size, 20 cm thick foundation in cement concrete 1:3:6 (Nominal Mix) with stone aggregate 40mm nominal size, inside & outside plastering minimum 12 mm thick with cement mortar 1:3 (1 cement:3 coarse sand) finished with a floating coat of neat cement and making channels in Cement Concrete 1:2:4 (Nominal Mix) with stone aggregate 20mm nominal size including finishing the channel to shape, including providing and fixing footrest, manhole cover and frame etc. complete. (only excavation as per actual shall be paid separately), Depth of manhole shall be considered as the vertical distance from top of the manhole cover to the outgoing invert of main drain channel.	Each	20	14140	282800
97	17.2.5 UADD SOR 2021 Vol-1 19.5 Pg. No.- 240	Man hole with above specifications having inside size 120x90 cm and 90 cm deep including SFRC cover with frame (heavy duty) 560 mm dia. clear opening as per IS 12592 : 2002.	Each			
98	19.5.2	Labour for cutting following P.V.C pipes of any type and class	Per Cut	13	20	260
99	19.5.4		Per Cut	25	20	500
100	19.5.6		Per Cut	32	10	320
101	MPUADD 2021 WATER 7.1 20.8	Drilling of perfectly vertical bore hole of 150mm diameter up to desired depth below ground level in all types of strata including all works pertaining to drilling such as transportation, installation and removal of drilling machine etc. complete. In intertrapean formations (collapsible strata between rocks) including charges for transportation and making all necessary arrangements etc. including lowering and fixing of 125mm nominal diameter (fig. or U.P.V.C.) Casing pipe	METER	717	1500	1075500
102	MPUADD 2021 WATER 7.1 20.11	Labour charges for assembling, centering and lowering of properly designed casing pipe assembly inside the bore hole drilled for construction of Gravel Packed tube well including the cost of providing and fixing of centraliser, and transportation of casing assembly etc. complete.				
103	MPUADD 2021 WATER 7.1 20.11.2	Casing assembly composed of 150mm diameter blank and slotted G.I. Casing pipes	METER	83	500	41500
104	16.4	Providing, erecting and giving test of Centrifugal Monoblock pump set conforming to IS 9079 operating at 2900 RPM with CI impeller, priming funnel, cock, suitable flanges at suction and delivery side. Pump shall have common shaft for pump and motor. Motor hall be suitable for working on 415 V ± 10%, 3 Ph, 50 Hz A.C. Supply. Motor shall be TEFC type. Pump set shall be suitable for working at various discharge and head requirements. Pump shall be erected on Provided C.C. foundation block with suitable foundation bolts grouted in C.C. foundation block.				
105	16.4	Centrifugal Monoblock Pump set (Single Stage)				
106	16.4.1.10	30.0 HP	Each	89457	2	178914
107	MPPWD SOR ELE 2024 39.2.	Supplying & installation of required capacity of three phase, 50 Hz, 415V, deep well submersible pump steel body, as per IS of approved make, suitable upto 6" tube well with control panel starter suitable for submersible pump with dry run protection, single phase preventer, connections, including clamp, bore cap etc. as required as per specifications but excluding pipe and connection cable				
108	MPPWD SOR ELE 2024 39.2.10	7.5 HP with 15 stages, head metre 138-60, discharge LPM 60-270	Each	81412	10	814120
109	MPPWD SOR ELE 2024 39.3	Supplying and laying of submersible flat cable ISI marked 3 core copper wire of suitable size with proper clamping of approved make				
110	MPPWD SOR ELE 2024 39.3.3	6.0 sq.mm multi strand	METER	308	1600	492800
111	MPPWD 2024 ELE 25.13	Supply of ISI Marked Automatic Star-Delta Starters conforming to IS : 13947-4 with suitable over load relay range and contactor size & timer 415 V , 3 -Phase with two earthing terminals				
112	MPPWD 2024 ELE 25.13.1	3 to 12.5 HP	Each	8150	10	81500




113	25.43	Supply of ISI Marked Automatic Star-Delta Starters conforming to IS : 13947-4 with suitable over load relay range and contactor size & timer 415 V , 3 -Phase with two earthing terminals				0
114	25.13.5	30 HP	Each	11324	2	22648
115	MPPWD 2024 ELE 39.9	Supplying & installation of approved make required capacity 3 phase, 50 Hz, 415V, centrifugal mono-block pump, with starter i/c single phase preventer, connections, base channel foundation etc. as required as per specifications but excluding pipe and connection cable.				
116	MPPWD 2024 ELE 39.9.4	10.0 HP head metre 10-36, discharge LPM 2400-1200	Each	73281	1	73281
117	MPPWD SOR BLD 2 26.1	Providing laying, testing and commissioning of 'C' class heavy duty MS pipe conforming to IS 1239/3589 underground i/c fittings like elbows, tees, flanges, tapers, jointing with nuts bolts, gaskets and welding etc. underground including excavation and providing cement concrete blocks as supports, at prescribed intervals and anticorrosive treatment with coal tar/ asphalt tape as IS 10221, with 4mm thick fiber reinforced tape and 12mm verlap and refilling the trench etc. of the following sizes complete as directed by Engineering-in-Charge.				
118	MPPWD SOR BLD 2 26.1.1	200 mm dia	Meter	3098	250	774500
119	MPPWD SOR BLD 2 26.1.2	150 mm dia	Meter	2216	1000	2216000
120	MPPWD SOR BLD 2 26.5	Providing fixing, including testing and commissioning the following size of flanged type sluice valve of cast iron body and bronze/ gun metal seat conforming to class PN 1.6 of IS: 14846/IS: 780 complete with bolts and nuts, rubber insertions etc. as per specification complete as required.				
121	26.5.1	200mm dia	Each	5996	2	11992
122	26.5.2	150mm dia	Each	4497	7	31479
123	MPPWD SOR BLD 2 26.6	Providing, fixing, testing and commissioning of butterfly valve PN 1.6, with Bronze/Gunmetal seat duly ISI marked complete with Nuts, Bolts, washers, gaskets, conforming to IS 13095, of following sizes as required.				
124	26.6.1	200mm dia	Each	8530	2	17060
125	26.6.2	150 mm dia	Each	6815	7	47705
126	MPPWD SOR BLD 2 26.16	Providing and fixing 4way fire brigade connection (FBC) of cast iron body with 4 nos. gun metal male instantaneous inlet couplings complete with cap and chain as required. For 150mm dia MS pipe connection, conforming to IS 904 as required	Each	14150	3	42450
127	MPPWD SOR BLD 2 26.17	Providing and fixing 2 way fire brigade connection (FBC) of CI body with 2 nos. gun metal male instantaneous inlet couplings complete with cap and chain as required. For 150mm dia MS pipe connection, confirming to IS 904 as required.	Each	6000	6	36000
128	MPPWD 2024 ELE 39.16	Supplying, installation, testing & commissioning of approved make jockey pump horizontally mounted coupled motor (EFF-2) 5.5hp, 2900 RPM, 3 Ph 415 V with mechanical seal pump, delivery of 180 litres per minute against total head of 70 / 88 meter so as to ensure a minimum pressure of 3.5 Kg/Cm2 at the highest. The impeller shall be closed type and accurately balanced dynamically. The pump shall be of cast iron, impeller shall be of bronze and shaft shall be of stainless steel. i/c coupling, coupling guard, base channel foundation & matching flanges etc. as required as per specifications.	Each	166401	2	332802
129	MPPWD 2024 ELE 39.2	Supplying, installation, testing & commissioning of approved make booster pump mono-block horizontally mounted with motor (EFF-2) 7.5hp, 2900 RPM, 3 Ph 415 V with mechanical seal pump, delivery of 600 LPM at 35 MWC against total head of 32 meter. The impeller shall be closed type and accurately balanced dynamically i/c base channel foundation etc. as required as per specifications.	Each	35000	2	70000
130	MPPWD 2024 ELE 39.25	Supply installation, testing and commissioning of approved make DOL starter 7.5 hp, 3 phase, 50 Hz, 415V, i/c single phase preventer, incoming MCB 32A 4P, 10KA, in outdoor type enclosure, connections, as required as per specifications.	Each	50000	4	200000

131	UADD SOR-2021, S.No.19.8, Pg.No-241	Manufacturing and supply of specials made out of M.S. steel plate or HR coil conforming to IS 3589- 2001 or its latest revision/ amendment, 5mm to 6mm thick plate in shapes and sizes required as per site conditions including cost of steel plate & other electrical & mechanical material, including Submerged Arc welded, including cost of transportation, loading and unloading complete approved by Engineer-in-Charge. (This is applicable only when standard special are not available	kg	93	900	83700
132	9UADD SOR-2021, S.No.19.9, Pg.No-242	242Manufacturing, providing and supplying spirally welded/ERW/SAW/ fabricated M.S. Pipes (Commercial Quality) including procurements of plates, gas cutting to required size rolling, tack welding assembling in suitable lengths to form pipes, welding on automatic welding machine and forming "v" edge on both ends of pipes railway freight, insurance unloading from railway wagon, loading into truck, transport to stores /site unloading, stacking etc, complete as per IS 3589 and IS 5504 as applicable as per specifications (No negative tolerance in thickness is permissible).	kg	83	1000	83000
133	MPUADD 2021 WATER 23.1	Designing and constructing RCC ground service reservoirs / RCC sumps of required capacity including excavation in all types of strata, foundation concrete, container walls, bottom slab top RCC roof slab / or dome, 20 mm thick cement plaster with water proofing compound in CM 1:3 proportion to inside face of the container, including epoxy paint from inside including refilling and disposing of surplus stuff within lead of 50 M, all labour and material charges, for laying and jointing of pipe assembly for inlet, outlet washout, over flow and bypass arrangement consisting of C.I. M.S. D/F pipes, specials and valves of given diameters, providing and fixing accessories such as M.S. ladder inside and outside, Manhole frame and cover, water top slab, B.B. masonry chamber for all valves, ventilating shafts, including giving satisfactory hydraulic test and water tightness test as per IS code and providing three coats of cement paints to all exposed surface of structure including roof surface etc. complete as per design data, criteria, obligatory requirements and detailed specifications. Anti-termitite treatment shall be given for underground portion of the structure.				
134	MPUADD 2021 WATER 23.1.16	Cost of 5,00,000 Litres Capacity	per lit	36661.86	2	73,32,372.00
135	MPUADD 2021 WATER 24.1.	Designing and constructing RCC elevated service reservoirs of following capacity with RCC staging consisting of columns, internal and external bracings spaced vertically not more than 4.5 metres centre to centre for ESR having capacity upto 500 cum and not more than 6 m c/c for ESRs having capacity above 500 Cum including excavation in all types of strata, foundation concrete, cement plaster with water proofing compound to the inside face of the container including refilling disposing off the surplus stuff within a lead of 50 metres, all labour and material charges including lowering, laying, erecting, hoisting and jointing of pipe, assembly of inlet, outlet, washout, overflow and bypass arrangements as per departmental design, providing and fixing accessories such as M.S. ladder, Manhole frame and covers, water level indicators, lightening conductor, G.I. pipe railing around walk way and top slab, providing spiral stair case from ground level to roof level, M.S. grill gate of 2 M height with locking arrangement of approved design, B.B. masonry chambers for all valves, ventilating shafts, providing and applying three coats of cement paint to the structure including roof slab, epoxy painting to internal surface and anti-termitite treatment for underground parts of the structure and giving satisfactory water tightness test as per I.S. code. The job to include painting the name of the scheme and other details on the reservoir as per the direction of Engineer-in-Charge.				
		Notes				
		1. The design of the structure be in accordance with relevant I.S. specification (I.S. 3370 1965 or revised), 20 to 21 m-1x4=4%				
		2. The design shall satisfy the stipulations as per IS. 1893 - 1984 and I.S. 13920/1993 for seismic force and I.S. - 11682/1985 for R.C.C. staging of overhead tanks.				
		3. Provision of internal bracing is obligatory. External bracing is also obligatory.				
		4. The entire structure shall be in M-30 mix only. (OPC Grade-43 Cements is to be use).				
		20 To 21 M -1x4=4% Total=24%				

136	MPUADD 2021 WATER 24.1.25	Add for capacity above o 10,00,000 to 15,00,000 Litres	Per Litre	6		
137	MPUADD 2021 WATER 24.1.26	Cost of 15,00,000 Litres capacity E.S.R.	JOB	11807722	1	1,18,07,722.00
138	MPUADD 2021 WATER 20.41	Horizontal directional drilling (by trenchless technology) of more than 250 mm and upto 300mm dia (outer to outer) HDPE/ DWC PE / PVC-O pipe below natural ground level including carrying out survey work at the job site for determining underground cable trenches like telephone, cable, water & sanitary lines and resistivity test for finding the soil strata using necessary equipments for completion of works, mobilizing of machineries and specialized crew at the job site complete in all respect excluding cost of entry and exit pits and supply, laying and jointing of all types of pipes.				
139		In all type of soil , Moorum	m	6969	200	13,93,800.00
MPPWD SOR BLD & ELE 2024 & MP UADD SOR water work- 2021 TOTAL						4,53,66,486.50


ARIF ALI
 Sub-Engineer (Civil)
 ISCDI
 Executive Engineer
 Indore Smart City Development Ltd



ARIF ALI
 Sub-Engineer (Civil)
 ISCDI

Estimated of Under ground Storm water line laying work ,Manholes ,Constructions work and Recharging Work .

S. No	Sor Item No.	Description	Unit	Qty.	Rate	Amount (Rs.)
1	MPUADD 2025 ROAD 3.9 Vol.1	Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means / manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed.				
2	MPUADD 2025 ROAD 3.9.1	All kind of ordinary soil (0 to 1.5m)	Cu m	3500	175	612500
3	MPPWD Road & bridge 2025 1.1.2	Transportation By Mechanical Transport including loading, unloading and stacking. Beyond 10km up to 20 km	Cu. Mt.	3000	150.9	452700
4	MPUADD 2021 WATER 12.3	Providing and Laying non-pressure (NP3) RCC socket & spigot pipes with rubber gasket joint including testing of joints.				
5	12.3.4	300 mm dia	Meter	1200	964	1156800
6	12.3.7	450 mm dia	Meter	1600	2287	3659200
7	12.3.9	600mm dia	Meter	300	3549	1064700
8	MPUADD 2021 WATER 16.19	Providing and fixing of unplasticised rigid PVC rain water harvesting filter kit UV protected with filter, PVC valve, conforming to IS: 1392, working pressure 4 kg/sqcm type B, minimum capacity 20 kilolitre/ hour, of approved make including all accessories like unplasticised PVC pipe clips of approved design with bombay nail of required length including making good the wall etc. complete for designed catchment				
9	MPUADD 2021 WATER 16.19.4	160 mm diameter PVC pipe, having wall thickness 3.2 mm for 450 m2 catchment area	Each	10	16500	165000
10	MPPWD 2024 BLD 2.24	Filling available excavated earth (excluding hard rock/Ordinary 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.	Cu m	2000	95	190000
11	MPPWD Road & bridge 2025 SOR 3.13	Construction of Embankment with Material Deposited from Roadway Cutting Construction of embankment with approved materials CBR>7 deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of table 300-1, 300-2 and as per relevant clauses of section-300.	Cu m	1500	298	447000
12	MPPWD Road & bridge 2025 SOR 1.3	Supply of following material including all lead and stacking etc. complete.(Crusher Stone)	Cu m	1000	300	300000
13	MP UADD SOR-2021 Road & bridge 8.23	Providing & placing 85 mm thick Hydraulically pressed M-40 cement concrete heavy duty covers with slots including steel reinforcement for ingress of water.	Sqm	200	887	177400
14	MP-UAD SOR, Water supply & Sewerage 17.2	Constructing Brick masonry rectangular manhole in cement mortar 1:4 (1cement:4 fine sand) common Burnt Clay Brick or fly ash bricks, of compressive strength not less than 75 kgf/cm2 RCC top slab Cement Concrete 1:2:4 (Nominal Mix) with stone aggregate 20mm nominal size, 20 cm thick foundation in cement concrete 1:3:6 (Nominal Mix) with stone aggregate 40mm nominal size, inside & outside plastering minimum 12 mm thick with cement mortar 1:3 (1 cement:3 coarse sand) finished with a floating coat of neat cement and making channels in Cement Concrete 1:2:4 (Nominal Mix) with stone aggregate 20mm nominal size including finishing the channel to shape, including providing and fixing footrest, manhole cover and frame etc. complete. (only excavation as per actual shall be paid separately), Depth of manhole shall be considered as the vertical distance from top of the manhole cover to theoutgoing invert of main drain channel.				
15	17.2.5	Man hole with above specifications having inside size 120x90 cm and 90 cm deep including SFRC cover with frame (heavy duty) 560 mm dia. clear opening as per IS 12592 : 2002.	Each	150	14140	2121000

Estimated of Under ground OFC PIPE installations.

SI No.	SOR Ref	Description of work	Unit	Rate	Quantity	Amount
1	MPUADD 2025 ROAD 3.9 Vol.1	Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means / manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed.				
2	MPUADD 2025 ROAD 3.9.1	All kind of ordinary soil (0 to 1.5m)	Cum	175.00	700.00	122500
3	MP UADD SOR Vol.1.1-2021, S.No.18.2.8	Filling available excavated earth in trenches, plinth sides of foundation in layers not exceeding 20cm. in depth including consolidation of each layer by ramming watering (pipe removal & laying)	Cum	89.00	350.00	31150
4	MP UADD SOR Vol.1 2021, . 7.1	Providing ,laying,joining & field testing of High Density Polyethylene pipes (HDPE)confirming to 984/14151/12786/13488 with necessary jointing material like mechanical connector jointingpipes by heating to the ends of pipes with the help of Telfon coated electric merrior/heater to the required temperature and then pressing the ends togheter againsts each other, to form a monolithic & leak proof joint by thermosetting process .It may be required to be done with Jacks/Hydraulic Jacks /But fusion machine.(50mm& above fusion jointed & below 50 mm mechanical jointed) (PN--6)				
5	7.1.9	110mm	Rmt	354.00	500	177000
6	7.1.14	200mm	Rmt	1151.00	2900	3337900
					MP UADD SOR water work -2021 TOTAL	3668550.00


Executive Engineer
 Indore Smart City Development Ltd.
 ISCDL
 Sub-Engineer
 ARJIE ALLI

Estimate For Boudry wall Work.

S. No	Sor Item No.	Description	Unit	Qty.	Rate	Amount (Rs.)
1	MPPWD Road & bridge 2025 SOR 3.3	Excavation in Soil using Hydraulic Excavator and Tipper with disposal upto 1000 metres. Excavation for roadwork in soil with hydraulic excavator including cutting and loading in tipper, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location with all lifts and lead upto 1000m as per relevant clauses of section-300 of specification.	cum	100	79	7900
2	MPPWD SOR 2024 BLD 27.10	Providing and fixing of prestressedvertically casted concrete panels (both surfaces should be smooth and havinggrooves on both faces) of M-40 grade of concrete of size 2100x300x50 mm havingminimum 4 nos of high tensile steel wire asper IS 6006:2014 of dia 3 mm placedhorizontally in full length of panel withprestressed precast concrete column of M- 40 grade of size 3000x150x150 mm havingminimum 7 nos of high tensile steel wire asper IS 6006:2014 of dia 3 mm placedvertically in full length to erect precast boundary wall panels to height 2100 mmfrom GL including excavation of pit of size]750x750x900 mm in all kind of soil exceptrock for erection of columns and groutingthe pit with M-20 grade ofconcrete. Manufacturing, transportation and installation at site all complete as per the direction of Engineer-in-Charge.	Mtr	1000	3478	3478000
3	MPPWD BLD 2024 SOR 4.1	Providing and laying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centering, shuttering and finishing				
4		M-15 (With 20mm nominal size graded stone aggregate)	Cu. Mt.	100	4471	447100
5	MPPWD BLD SOR VOL.1 2025 10.29.1	R.C.C. Standards post/ struts/rails/ poles of mix 1:1.5:3 (1 cement : 1.5 sand : 3 graded stone aggregate 12.5 mm nominal size) with wooden plugs or 6mm bar ribs wherever required as per direction of Engineer-in-charge including fixing (cost of earth works in excavation, concrete works in foundation to be paid separately)	CUM	10	16510	165100
6	MPPWD BLD SOR VOL.1 2025 10.31	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 struttred on both sides and end post one sideonly, 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. bindingwire tied to 6 mm bar ribs fixed while casing the post (cost of R.C.C. posts, struts, earth work and concrete to be paidfor separately) with GI barbed wire. apply of following material including all lead and stacking etc. complete.	M	1000	10	10000
7	MPPWD BLD SOR VOL.1 2025 10.32	Fencing with barbed G.I. wire angle iron post placed fitted to at required distance embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be struttred on both sides and end post on one side only and provided with horizontal lines and two diagonalsinterwoven with horizontal wires, of barbed wire weighing 9.38 kg per 100 (minimum) between the two posts fitted and fixed with G.I. staples, turn buckles etc. complete. (Cost of posts, struts, earth workand concrete work to be paid for separately):- Payment to be made per metre cost of total length of barbed	M	1000	17	17000
MPPWD BLD SOR 2024 & NON SOR TOTAL						41,25,100


 Sub-Engineer (Civil)
 ISCDL


 Executive Engineer
 Indore Smart City Development

Estimate For Religious Civil Work

No.	UADD SOR 2021	Description of Item	Unit	Quantity	Rates (Rs.)	Amount
1	MPUADD 2025 ROAD 3.9 Vol. I	Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means / manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed.				
2	MPUADD 2025 ROAD 3.9.1	All kinds of ordinary soil				
3		for col. Footing pits-				
4			cum	900	175	157500
5	MPPWD 2024 BLD 2.27	Supplying and filling in plinth under floors including watering ramming consolidating in layers not exceeding 20cm in depth and dressing complete.				
6	MPPWD 2024 BLD 2.27.1	With hard muram having CBR > 12% at under floors including watering, ramming and compacting (minimum compaction 95% of MDD) in layers not exceeding 20cm in thickness and dressing complete. (Note:- maximum thickness of this layer to be provided shall be 30cm)	cum	200	393	78600
7	MPPWD 2024 BLD 2.24	Filling available excavated earth (excluding hard rock/ordinary 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.	Cu m	600	95	57000
8	MPPWD 2024 BLD 2.26	Supplying and filling in plinth with crusher stone dust / coarse sand under floors including, watering, ramming and compacting in layers not exceeding	CUM	200	672	134400
9	MPPWD BLD 2024 SOR 5.9	Centering and shuttering including strutting, propping, stretching etc. complete for and removal of formwork by sheet plate or plywood shuttering for :				
10		total qty of form work for foundation-(footing & col)				
11	MPPWD BLD 2024 SOR 5.9.6	FOR COLS. Above ground level upto plinth level 19.1.6 Columns, Pillars, Piers, Abutments, Posts and Struts.	sqm	1029	190.6	196127.4
12	i	for cols above G.L. up to plinth level-				
13	MPPWD BLD 2024 SOR 5.9.2.1	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	sqm	850	471.2	400520
14	i	for plinth beams-				
15		total qty for PB formwork				
16	MPPWD BLD 2024 SOR 4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level :	sqm	750	219	164250
17	4.1.1	With 20mm nominal size graded stone aggregate				
18	MPPWD BLD 2024 SOR 4.1.1.4	M-10 Nominal (Mix-1 Cement : 3 sand : 6 graded(stone aggregate))				
19	i	for col. Footing pits- base 100mm thick				
20		total qty for footing base M-10				
21		total PCC M-10 qty for foundation and plinth beam (i+ii)	cum	84	3890	326760

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22	MPPWD BLD 2024 SOR 4.1.1.2	M-20 – Grade concrete							
23		total qty of M-20 RCC work upto plinth level- Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc. upto floor two level, excluding the cost of centering, shuttering and finishing : With 20mm nominal size graded stone aggregate	cum	280	4933			1381240	
24	MPPWD BLD 2024 SOR 4.2								
25	MPPWD BLD 2024 SOR 4.2.1	total qty of M-20 for col.	cum	55	5177			284735	
26		Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in beams, suspended floors, roofs having slope of any degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral staircases above plinth level and upto floor two level excluding the cost of centering, shuttering, finishing and reinforcement in concrete grade.							
27	MPPWD BLD 2024 SOR 5.3								
28	i	for Lintel beams-(200x200)							
29		horizontal LB-							
30		total qty of M-20 for beam	cum	35	6541			228935	
31	MPPWD BLD 2024 SOR 5.16	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire all wastages and overlaps, couplers (overlaps shall be provided as per requirement of IS 13920 for ductile detailing IS 456 RCC Design & SP 34 Reinforcement detailing) etc. complete. (Note:- 1. Spacer bars (chairs) shall be paid separately as shown in the drawing and as per direction of engineer in charge. 2. No extra payment shall be done for overlaps and/or couplers. 3. Couplers shall be conforming to IS code on "Reinforcement Couplers for Mechanical Splices of Bars for Concrete Reinforcement – Specification")							
32	MPPWD BLD 2024 SOR 5.16.6	Thermo-Mechanically Treated bars. FE 500 D or more conforming to IS 1786							
33		Total qty Of RCC							
34		Taking 80kg/Cum							
35		total qty of steel in kg	kg	20000	80			1600000	
36	MPPWD 2024 BLD SOR 2.24	Filling available excavated earth (excluding hard rock/Ordinary 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. for col. Pits							
37		net qty of filling	cum	900	95			85500	
38		Brick work with fly ash lime bricks (FALG Bricks) conforming to IS:12894-2002, in super structure above plinth level up to floor two level in :							
39	MPPWD 2024 BLD SOR 6.6	For Boundary Wall							
40	i	12 mm cement plaster of mix :							
41	MPPWD 2024 BLD SOR 13.1								
42	13.1.1	1:4 (1 cement: 4 sand)							
43	i	for Inside plastering-							




44		for Boundary wall-							
45				sqm	2000	173		346000	
46	MPPWD 2024 BLD SOR 13.2	15 mm cement plaster on rough side of single or half brick wall of mix 1:4 (1 cement: 4 sand)							
47	13.2.1	out side plaster work -							
48									
49			sqm	2000		184		368000	
50	MPPWD 2024 BLD SOR 13.54	Finishing walls by any mechanical or manual means with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :							
51	MPPWD 2024 BLD SOR 13.54.3	Two or more coats applied on walls @ 1.25 ltr/10 sqm. Over and including one coat of Special primer applied @ 0.75 ltr / 10 sqm.							
52		Total qty of 12mm Plaster		2000					
53		Total qty of 20mm Plaster		2000					
54			sqm	4000		81		324000	
55	MPPWD 2024 BLD SOR 10.1 vol1	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	4000		91		364000	
56	MPPWD 2024 BLD SOR 10.2 vol1	Structural steel work using M.S. flats, angles, channels I-section, H-section etc. 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	3250		103		334750	
57	MPPWD 2024 BLD SOR 10.4 vol1	Providing and fixing 1mm thick M.S. sheet sliding-shutters with frame and diagonal braces of 40x40x6mm angle iron, 3mm M.S.gusset plates at the junction and corners 25mm dia pulley,40x40x6mm angle and T-iron guide at the top and bottom respectively including applying a priming coat of approved steel primer.	kg	250		3155		788750	
58	MPPWD 2024 BLD SOR 10.14 vol1	Steel work in built up M.S. tubular section (round, square or rectangular hollow tubes etc.) trusses/frame work 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.							
59		Hot finished welded tubes	kg	4000		117		468000	
60	MPuadd 2021 BLD SOR 17.1 vol2	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, fixed with draw plugs and screws with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium napping for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and paneling to be paid for separately)	kg	1000		342		342000	
61	17.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)							




62	MPPWD 2024 BLD SOR 13.54.2 vol1	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 or manufacture.	SQM	1000	71	71000
63	MPPWD 2024 BLD SOR 13.41.2 vol1	Providing and applying white cement based putty of average thickness 1 mm, of approved brand over the plastered wall surface to prepare the surface even and smooth /c all cost of material, labour and scaffold etc in all position complete. Note : Putty shall be applied only on the internal walls, for application on the exterior walls prior permission of Chief Engineer will be required.	SQM	1600	74	118400
68	MPPWD 2024 BLD SOR 11.30.1.1	Providing and laying gang saw cut 18 mm thick, mirror polished premoulded (wherever required) and pre polished machine cut granite stonework in flooring of required size shape of approved shade, color and texture in flooring laid over 20 mm thick base of cement mortar 1:4 (1 Cement: 4 sand) including grouting the joints with white cement mixed with matching pigments epoxy touch ups etc. complete as per direction of Engineer-in Charge.	Sqm	100	2642	264200
69		Fine grained granite dark Black/dark Red/ White or equivalent with self design/ pattern/crystals of other colors of glitter				
70	MPPWD 2024 BLD SOR 11.78	Providing and laying vitrified floor tiles Multi/Double charged (Minimum top layer thickness 2.0mm) Neno Polished self design, in different size with water absorption less than 0.05% and conforming to IS:15622 of approved CHAPTER -11: FLOORING. 356 Item No. Sub Item No. Item Name Description Unit Rate (In Rs.) 1 2 3 4 5 6 make in all colours& shades, quality/ premium quality in flooring laid on 12mm thick cement mortar 1:4(1cement :4sand) including grouting the joints with white cement and matching pigments etc. complete				
71		Plain ivory light shade Size 600X600mm thickness 9-10mm				
72	MPPWD 2024 BLD SOR 11.50	Providing and fixing Ceramic glazed wall tiles 300x450 mm or more (having thickness 6 to 7 mm) of 1st quality conforming to IS: 15622 of approved make in all Colours& shades, except burgundy, bottle green, black laid on 12mm thick bed of Cement Mortar 1:3 (1 Cement: 3 sand)preprad same day when mortar is still green jointed with grey cement slurry @3.3 kg per sqm including pointing the joints with white cement and matching pigments etc., complete.	Sqm	100	776	77600
73	MPPWD 2024 BLD SOR 11.36	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 mirror polishing complete with base of cement mortar 1 : 4 (1 cement : 4 sand) having thickness of slab 25 mm (Area of slab to be over 0.25 sqm) Note: - Deduction shall be made for not mirror polishing according to item no 11.43	Sqm	250	1174	293500
74	MPPWD 2024 BLD SOR 10.6	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete including the cost of providing and fixing necessary 27.5cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to I.S. 4454- part-1 and M.S. top cover of required thickness for rolling shutters.				
75	MPPWD 2024 BLD SOR 10.6.1	80X1.25mm M.S. laths with 1.25 mm thick top cover		250	2200	550000
76	MPPWD 2024 BLD SOR 10.7.1	Exceeding 10.00 sqm and upto 16.80 sqm in the area.		100	747	74700

77	MPPWD 2024 BLD SOR 10.9	Providing and fixing ball bearing for rolling shutters. Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rail of T-iron 40x40x6mm with 40mm dia steel pulleys complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer. Rate includes recess cutting in floor and making good the same wherever required.	each	50	366	18300
78	MPPWD 2024 BLD SOR 10.3		sqm	210	4132	867720
79	MPPWD 2024 BLD SOR 12.66	Providing and Fixing colour coated profile sheet of minimum 1015 mm effective cover width and nominal 28.5 mm deep ribs with subtle square fluting in the five pan at nominal 203mm centre-to-centre. The end rib shall be designed for anti-capillary action, to avoid any seepage of water through the lateral overlap. The profile sheet of 0.5 mm thick, Hi-strength steel with min. 550 MPa yield strength, metallic hot dip coated with Aluminium-Zinc alloy (55% Aluminium, 45% Zinc) as per AS 1397 - Zincalume AZ150 (Min). 150 gms/sq.mt total on both sides) with steel quality paint coat. The paint shall have a total coating thickness of nominal 35 µm, comprising of nominal 20 µm exterior coat on top surface and nominal 5 µm reverse coat on back surface over nominal 5 µm primer coat on both surface. The sheet shall have brand marking of the manufacturer giving product details on the back of the sheet at every 1 meter c/c for confirming genuinity of the material. The sheet shall be fixed using selfdrilling /self-tapping screws of size (5.5x 55mm) 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	sqm	1800	430	774000
MPPWD 2024 BLD SOR TOTAL						13062137.4


Sub-Engineer (Civil)


Executive Engineer



Executive Engineer
Indore Smart City Development Ltd.

Estimate For HORTICULTURE Work.						
S.NO	SOR NO	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
1	MPPWD Road & bridge 2025 SOR, item no. 1.1.2 and page no.02	Transportation By Mechanical Transport including loading, unloading and stacking. Beyond 10km up to 20 km	Cu. Mt.	3500	151	528150
2	MPPWD Road & bridge 2025 SOR 1.3	Supply of following material including all lead and stacking etc. complete.				
3		Crusher stone dust	Cu. Mt.	250	300	75000
4	mpuadd 2021 vol.2 item 2.1	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m.				
5		All kinds of soil.	100 sqm	140	1,003	140420
6	MP PWD BLD SOR VOL 2 ITEM NO 28.1	Trenching in ordinary soil up to a depth of 60cm including removal and stacking of serviceable materials and then disposing of surplus soil, by spreading and neatly leveling within a lead of 50m and making up the trenched area to proper levels by filling with earth or earth mixed with sludge or/and manure before and after flooding trench with water (excluding cost of imported earth, sludge or manure).	CUM	4500	186	837000
7	MP PWD BLD SOR VOL 2 ITEM NO 28.2	Supplying and stacking of good earth specific useful for plantation at site including royalty if any and carriage (earth measured in stacks will be reduced by 20% for payment).	CUM	2000	511	1022000
8	MP PWD BLD SOR VOL 2 ITEM NO 28.3	Supplying and stacking sludge at site including royalty and carriage (sludge measured in stacks will be reduced by 8% for payment).	CUM	500	643	321500
9	MP PWD BLD SOR VOL 2 ITEM NO 28.5	Rough dressing the trenched ground including breaking clods.	100SQM	140	445	62300
10	MP PWD BLD SOR VOL 2 ITEM NO 28.6	Uprooting weeds from the trenched area after 10 to 15 days of its flooding with water including disposal of uprooted vegetation.	100SQM	140	151	21140
11	MP PWD BLD SOR VOL 2 ITEM NO 28.7	Fine dressing of the ground	100SQM	140	113	15820
12	MP PWD BLD SOR VOL 2 ITEM NO 28.8	Spreading of sludge, dump manure and / or good earth in required thickness as per direction of Engineer-in-charge (Cost of sludge, dump manure and / or good earth to be paid separately).	CUM	4200	16	67200
13	MP PWD BLD SOR VOL 2 ITEM NO 28.9	Mixing earth and sludge or manure in the required proportion specified or directed by the Engineer-in-charge	CUM	4200	11	46200
14	MP PWD BLD SOR VOL 2 ITEM NO 28.10	Grassing with Selection No.1 grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn, free from weeds and fit for mowing including supplying good earth, if needed (the grass and good earth shall be paid for separately):				
15	28.10.1	In rows 15 cm apart in both directions.	100 sqm	140	1,163	162820
16	28.10.2	In rows 7.5 cm apart in both directions.	100 sqm	140	2,404	336560
17	28.10.3	In rows 5 cm apart in both directions.	100 sqm	140	3,601	504140
18	28.10.4	With grass turf	100 sqm	140	2,856	399840

19	MP PWD BLD SOR VOL 2 ITEM NO 28.10.5	Providing and laying Selected type of Grass turf with earth 50mm to 60mm thickness on existing ground prepared with proper level and ramming with required tools wooden and then rolling the surface with light roller, making the surface smoothen and light watering the same, as per direction of Engineer-in-Charge.	SQM	11000	99	1089000
20	MP PWD BLD SOR VOL 2 ITEM NO 28.10.9	Maintenance of Grassing ground done by Seeding Method as mentioned in Item No. 28.10.6 from the stage of germination to first cut i.e. approximately 45 days.	SQM	7500	40	300000
21	MP PWD BLD SOR VOL 2 ITEM NO 28.11	Renovating lawns including weeding, cheeling the grass, forking the ground, top dressing with sludge or manure, mixing the same with forked soil, watering and maintaining the lawn for 30 days or more till the grass forms a thick lawn free from weeds and fit for mowing and disposal of rubbish as directed, including supplying good earth if needed but excluding the cost of sludge or manure (the good earth shall be paid for separately).	100 sqm	500	1,081	540500
22	MP PWD BLD SOR VOL 2 ITEM NO 28.12	Uprooting rank vegetation and weeds by digging the area to a depth of 60cm removing all weeds and other growth with roots by forking repeatedly, breaking clods, rough dressing, flooding with water, uprooting fresh growths after 10 to 15 days and then fine dressing for planting new grass, including disposal of all rubbish with all leads and lifts.	100 sqm	200	1,861	372200
23	MP PWD BLD SOR VOL 2 ITEM NO 28.13	Preparation of beds for hedging and shrubbery by excavating further 30cm deep of already prepared trench, refilling the excavated earth after breaking clods and mixing with sludge or manure in the ratio of 8:1 (8 parts of stacked volume of earth after reduction by 20% : one part of stacked volume of sludge or manure after reduction by 8%), flooding with water, filling with earth if necessary, watering and finally fine dressing, levelling etc. including stacking and disposal of materials declared unserviceable and surplus earth by spreading and levelling as directed, within a lead of 50m lift upto 1.5 m complete (cost of sludge, manure or extra earth to be paid for separately).	CUM	4200	67	281400
24	MP PWD BLD SOR VOL 2 ITEM NO 28.15	Providing and planting different variety of plants of approved quality and sizes as mentioned including making pits of required size at site, refilled with B.C. Soil mixture manuring and pesticide etc. complete (to be paid separately) including watering and 90 days maintenance from the date of final bill as per direction of Engineer-in-Charge complete in all respect (B.C. Mixture paid separately).				




25	Shrubs (75-90 cm height)	Bahunia Tomentosa, Beloperone Species, Casalpinnia Pulcherima, Bird of Paradise, Callandra Emarginata, Callandra Hybrid, Cassia Bi flora, Cassia Laevigata, Cestrum Nocturnum, Dombeya Mastersii, Euphorbia Caracasana, Euphorbia Pulcherima, Excocrea bi color, Excocrea tri color, Ficus Blackii, Ficus Reginold, Ficus Panda, Gardenia, Gulphinia, Jasminoides, Hamelia Pattens, Heliconia, Hibiscus Rosasinensis, Hibiscus Variegated, Hibiscus Viceroy, Jatropha Multifida, Largestomia Indica, Malpighia Coccigera, Murraya Exotica, Murraya Koeniggi, Murraya Sambucum, Mussaenda Erythrophylla, Nerium Oleander, Nyctanthus Arbortristis, Plumbeago Capensis, Putranjeeva Roxburghii, Tabernaemontana Coronaria, Tabernaemontana Divaricata, Tecoma Gaudi Chaudi, Tecoma Stans, Thevetia Nerifolia, Thuja Compacta and equivalent plants.	SQM	50	80	4000
26	Creeper plants (height :30cm to 45 cm)	Allamanda Cathartica, Allamanda Grandiflora, Allamanda Violacea, Begonia Venusta, Boughan Villas (Variety : Butiana, Lady Mary Bearing, Mahaara, Mohan, Scarlet Queen Variagata, Glabra Formosa, Peruviana Odissi, Partha, Shubhra, Thimma, Spectabilis, L.N. Birla, Refulgens), Clerodendrum Splendens, Clerodendrum Thompsonae, Ipomea Purpurea, Jasminum Grandiflorum, Jasminum Humile (Yellow), Passiflora Caerulea (Rakhi Bell), Petrea Volubilis, Quis Qualis Indica, Tecoma Grandiflora, Veronia Elaegnifolia (Curtain Creeper), Mandevilla, Garlic Creeper, Callimitis	EACH	500	50	25000
27	Ground cover plants height: 30cm-45cm	Alpinia Variegated, Alternanthera species, Aspyragus Myerri, Aspyragus Springenii, Aspidistra, Canna (regular, Dwarf), Chlorodendron Inermii, Chlorophytum (Green), Chlorophytum variegated, Coffea Chinensis, Dianella Variegated, Durranta (Goldiana, Green, Variegated), Euphorbia Milli hybrid, Ipomea (Golden leaves), Iresine herbstii, Juniper Prostata, Juniper Africana, Ophiopogon plant, Ophiopogon jaburan, Portulacaria Afra (jade Plant), Schefflera Green, Schefflera variegated, Setcreasea Purpurea, Syngonium (Butterfly) species, Syngonium miniature, Syngonium Dwarf, Syngonium variegated, Tradescantia, Wadelia Trilobata, Zebrina Tradescantia, Pendanas, Spider Lily Black, Spider Lily variegated, Aclypha (Red, Green, Mini), Lantana (Red, Yellow, Purple, White, variegated), Haemalia Mini and similar plants.	EACH	300	50	15000
28	Winter seasonal height: 20- 30 cm	Any of one from Alyssum, Anemone, Antirrhinum Hybrid, Aster Hybrid, Begonia and its different varieties, Calendula, Carnation, Coleus, Daisy, Dianthus, Fressia, Gazania, Impatiens, Kalanchoe, Marigold Inca, Missam branthemum, Nemasia, Nasturtium, Ornamental Kale, Pansy Hybrid Sakata, Petunia Hybrids such as Bravo, Star and Picotee, Salvia, Stock, Stock, Verbena	EACH	50	50	2500
29	Summer and rainy seasonal plants	Any of one from Celosia, Caladium Hybrid, Cockscomb, Cosmos, Gaillardia, Gomphorena, Kochchea, Portulacca, Sunflower Hybrid, Sunflower Single, Tapiocca Variegated (Manihot Esculent), Vinca, Zinnia Hybrids	EACH	50	42	2100
30	Rose plants height: 30cm & above	Budded Roses of H.T variety and miniature Roses.	EACH	100	170	17000
31	Rose plants creepers	Plant Creeper Rose Varieties	EACH	150	112	16800

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32	Rose plant H.T. standard	Standard Roses H.T. Variety	EACH	50	382	19100
33	MP PWD BLD SOR VOL 2 ITEM NO 28.16	Half brick circular tree guard in bricks, internal diameter 1.25 metre and height 1.2 metre above ground and 0.20 m below ground, bottom two courses laid dry and top three courses in cement mortar 1:6 (1 cement : 6 sand) and the intermediate courses being in dry honey comb masonry as per design complete:	EACH	25	800	20000
34	MP PWD BLD SOR VOL 2 ITEM NO 28.2	Leveling the ground with water including making kiarries and dismantling the same.	100SQM	500	102	51000
35	MP PWD BLD SOR VOL 2 ITEM NO 28.22	Providing and fixing M. S. tree guard 50 cm square in plan, height 1.40 metre above ground level and 0.50 metre below ground level. The vertical members shall consist of four nos. of angle iron of size 25x25x5 mm 1.9 long, one at Each corner and 8 nos. flat iron of size 25x5 mm 1.4 long. The vertical members shall be welded to 4 nos. 25x6 mm M. S. flats placed horizontally around the vertical member of the cage. 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 PWD/ any other approved name. The tree guard shall be fixed to the ground by making suitable holes and by embedding four corners leg in the ground, including refilling the earth, compaction etc. complete. The tree guard shall be painted with two coats of paint of approved brand and manufacture over a coat of primer, complete in all respect.	EACH	25	2,245	56125
36	MP PWD BLD SOR VOL 2 ITEM NO 28.23	Preparation of mounds of various size and shape by available excavated /supplied earth in layers not exceeding 20 cm in depth, breaking clods, watering of Each layer, dressing etc. lead upto 50 metre and lift upto 1.5 m complete as per direction of Engineer-in-Charge.	CUM	1000	138	138000
37	MP PWD BLD SOR VOL 2 ITEM NO 28.29.1	Providing and fixing of White River (stone) pebbles of size 2" to 2.50" dia in natural colour at site of work including loading, unloading, carriage with all taxes paid etc and as per direction of Engineer-in-Charge.	KG	20000	10	200000
38	MP PWD BLD SOR VOL 2 ITEM NO 28.29.2	Providing and fixing of White Marbles circular/oval in shape (stone) pebbles of size 2" to 2.50" dia in natural colour at site of work including loading, unloading, carriage with all taxes paid etc. and as per direction of Engineer-in-Charge.	KG	20000	22	440000
39	MP PWD BLD SOR VOL 2 ITEM NO 28.31	Providing and applying Anti Termite treatment of infected areas i/c branches/leaves by spraying chemical emulsion 0.5% (Chloropyrifos 20%EC) concentration through power spray machine (@100ml Chloropyrifos per Tree i/c cost of chemical) and as per the direction of Engineer-in-Charge.	EACH	500	70	35000
40	MP PWD BLD SOR VOL 2 ITEM NO 28.32	Anti Termite treatment of Lawn area through premise 30.5%I.P, one liter premise diluted in 499 litres water and applying solution @1.00 liter solution per sq.m lawn or bed area. (Two application) i/c cost of chemical and as per direction of Engineer-in-Charge.	SQM	7500	10	75000

41	MP PWD BLD SOR VOL 2 ITEM NO 28.33	Providing and fixing of Green Agro Shade net of make: Tuflex or equivalent, of 75% permeability, of green colour having contents (Weight grams/sqm: 510 (+/-8%)) in width of 75cms with bamboo of 90 cm length. The bamboo should be painted with green colour paint of approved brand and manufacture (two or more coats) and fixed 30 cm below ground level and 60 cm above ground level at a distance of 1.5 mtrs. The net and bamboo should be banded with 2 mm G.I wire at three places properly as per the direction of Engineer-in-Charge.	SQM	500	243	121500
42	MP PWD BLD SOR VOL 2 ITEM NO 28.35	Providing and fixing of 3 seater stone bench made of 75mm thick stone slab finished by different numbers of ambry stone and two coats of 124 no sealer coat to prevent from weather including fixing on a pedestal (cost of pedestal to be paid separately) etc. complete as per direction of engineer in charge. Size: length 1500mm, width 600mm, legs height 500 mm, back support height 500mm.	EACH	10	9,700	97000
43	MP PWD BLD SOR VOL 2 ITEM NO 28.36	Providing and fixing of stone planter (bench) made of 75mm thick stone slab finished by different numbers of ambry stone and two coats of 124 no sealer coat to prevent from weather including fixing on a pedestal (cost of pedestal to be paid separately) etc. complete as per direction of engineer in charge. Size: length 1200mm, width 500mm, legs height 500 mm.	EACH	10	6,200	62000
44	MP PWD BLD SOR VOL 2 ITEM NO 28.37	Providing and fixing of stone table made of 75mm thick stone slab finished by different numbers of ambry stone and two coats of 124 no sealer coat to prevent from weather including fixing on a pedestal (cost of pedestal to be paid separately) etc. complete as per direction of engineer in charge. Size: length 1000mm, width 600mm, legs height 750 mm	EACH	10	7,900	79000
45	MP PWD BLD SOR VOL 2 ITEM NO 28.38	Providing and laying C.C. pavement of mix M- 25 with ready mixed concrete from batching plant including centering and shuttering complete. The ready mixed concrete shall be laid and finished with screed board vibrator, vacuum dewatering process and finally finished by floating, with wire brush etc. complete as per specifications and directions of Engineer-in-Charge. Note: Cement content considered in this item is @ 330 kg/cum.	CUM	10	6,936	69360
46	MPPWD 2025 ROAD SOR 6.14	Providing and laying factory made coloured chamfered edge Cement Concrete paver blocks of required strength, thickness and size/shape, made by table vibratory method using PU mould, laid in required colour and pattern over 50mm thick compacted bed of stone dust, compacting and proper embedding/laying of inter locking paver blocks into the 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 including locking edges with M 15 cement concrete in footpath, light traffic parking etc. complete as per direction of Engineer-in-Charge.				
47		80mm thick C.C. paver block of M-35 grade with approved colour, design and pattern.	SQM	750	748	561000
48	MP PWD BLD SOR VOL 1 ITEM NO 11.39	Kota stone slab (area less than 0.5 sqm) rough chiseled dressed average 40 mm thick flooring for parking and open area of thickness over 20 mm (average) thick base laid over and jointed with grey cement slurry complete with base of cement mortar 1:4 (1 Cement : 4 Sand)	SQM	250	723	180750

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49	MPUADD 2025 ROAD 3.9 Vol. I	Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means / manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed.					
50	MPUADD 2025 ROAD 3.9.1	All kinds of ordinary soil(1000 m)					
51		for col. Footing pits-					
52			cum	3996	175	699300	
53	MPPWD 2024 BLD 2.27	Supplying and filling in plinth under floors including watering ramming consolidating in layers not exceeding 20cm in depth and dressing complete.					
54	MPPWD 2024 BLD 2.27.1	With hard muram having CBR >12 % at under floors including watering, ramming and compacting (minimum compaction 95% of MDD) in layers not exceeding 20cm in thickness and dressing complete. (Note:- maximum thickness of this layer to be provided shall be 30cm)	cum	500	393	196500	
55	MPPWD 2024 BLD 2.24	Filling available excavated earth (excluding hard rock/Ordinary 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.	Cu m	1500	95	142500	
56	MPPWD 2024 BLD 2.26	Supplying and filling in plinth with crusher stone dust / coarse sand under floors including, watering, ramming and compacting in layers not exceeding	CUM	500	672	336000	
57	MPPWD BLD 2024 SOR 5.9	Centering and shuttering including strutting, propping stretching etc. complete for and removal of formwork by sheet plate or plywood shuttering for :					
58		total qty of form work for foundation-(footing & col)	sqm	1000	191	190600	
59	MPPWD BLD 2024 SOR 5.9.6	FOR COLS. Above ground level upto plinth level 19.1.6 Columns, Pillars, Piers, Abutments, Posts and Struts.					
60	i	for cols above G.L. up to plinth level-	sqm	400	471	188480	
61	MPPWD BLD 2024 SOR 5.9.2.1	Lintels, beams, plinth beams, girders, bressumers and cantilevers.					
62	i	for plinth beams-					
63		total qty for PB formwork	sqm	700	219	153300	
64	MPPWD BLD 2024 SOR 4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level :					
65	4.1.1	With 20mm nominal size graded stone aggregate					
66	MPPWD BLD 2024 SOR 4.1.1.4	M-10 Nominal (Mix-1 Cement : 3 sand : 6 graded stone aggregate)					
67	i	for col. Footing pits- base 100mm thick					
68		total qty for footing base M-10					
69		total PCC M-10 qty for foundation and plinth beam (i+ii)	cum	200	3,890	778000	
70	MPPWD BLD 2024 SOR 4.1.1.2	M-20 - Grade concrete					

71		total qty of M-20 RCC work upto plinth level-	cum	350	4,933	1726550
72	MPPWD BLD 2024 SOR 4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc. upto floor two level, excluding the cost of centering, shuttering and finishing : With 20mm nominal size graded stone aggregate				
73	MPPWD BLD 2024 SOR 4.2.1	total qty of M-20 for col.	cum	70	5,177	362390
74		Reinforced cement concrete work (with 20mm nominal size graded stone aggregate) in beams, suspended floors, roofs having slope of any degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral staircases above plinth level and upto floor two level excluding the cost of centering, shuttering, finishing and reinforcement in concrete grade.				
75	MPPWD BLD 2024 SOR 5.3	for Lintel beams-(200x200) horizontal LB-				
76	i	total qty of M-20 for beam	cum	50	6,541	327050
77		Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire all wastages and overlaps, couplers (overlaps shall be provided as per requirement of IS 13920 for ductile detailing IS 456 RCC Design & SP 34 Reinforcement detailing) etc. complete . (Note:- 1. Spacer bars (chairs) shall be paid separately as shown in the drawing and as per direction of engineer in charge. 2. No extra payment shall be done for overlaps and/or couplers. 3. Couplers shall be conforming to IS code on "Reinforcement Couplers for Mechanical Splices of Bars for Concrete Reinforcement - Specification")				
78	MPPWD BLD 2024 SOR 5.16	Thermo-Mechanically Treated bars. FE 500 D or more conforming to IS 1786				
79		Total qty of RCC Taking 80kg/Cum total qty of steel in kg	kg	30000	80	2400000
80	MPPWD BLD 2024 SOR 5.16.6	Brick work with fly ash lime bricks (FALG Bricks) conforming to IS:12894-2002, in super structure above plinth level up to floor two level in : For Boundary Wall 12 mm cement plaster of mix : 1:4 (1 cement: 4 sand) for Inside plastering- for Boundary wall-	cum	500	4,541	2270500
81		15 mm cement plaster on rough side of single or half brick wall of mix	sqm	2000	173	346000
82						
83						
84	MPPWD 2024 BLD SOR 6.6					
85	i					
86	MPPWD 2024 BLD SOR 13.1					
87	13.1.1					
88	i					
89						
90						
91	MPPWD 2024 BLD SOR 13.2					

92		1:4 (1 cement: 4 sand)								
93		out side plaster work -								
94						sqm	2000	184		368000
95	MPPWD 2024 BLD SOR 13.54	Finishing walls by any mechanical or manual means with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :								
96	MPPWD 2024 BLD SOR 13.54.3	Two or more coats applied on walls @ 1.25 ltr/10 sqm. Over and including one coat of Special primer applied @ 0.75 ltr / 10 sqm.								
97		Total qty of 12mm Plaster					2000			
98		Total qty of 20mm Plaster					2000			
99						sqm	4000	81		324000
100	MPPWD 2024 BLD SOR 10.1 vol1	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	500	91		45500
101	MPPWD 2024 BLD SOR 10.2 vol1	Structural steel work using M.S. flats, angles, channels I-section, H-section etc. riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.				kg	500	103		51500
102	MPPWD 2024 BLD SOR 10.4 vol1	Providing and fixing 1mm thick M.S. sheet sliding-shutters with frame and diagonal braces of 40x40x6mm angle iron, 3mm M.S.gusset plates at the junction and corners 25mm dia pulley, 40x40x6mm angle and T-iron guide at the top and bottom respectively including applying a priming coat of approved steel primer.				kg	50	3,155		157750
103	MPPWD 2024 BLD SOR 10.14 vol1	Steel work in built up M.S. tubular section (round, square or rectangular hollow tubes etc.) trusses/frame work 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.				kg	750	117		87750
104		Hot finished welded tubes				kg	2000	117		234000
105	MPPWD 2024 BLD SOR 13.54.2 vol1	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 or manufacture.				SQM	1500	71		106500
106	MPPWD 2024 BLD SOR 10.32 vol1	post placed fitted to at required distance embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be struted on both sides and end post on one side only and provided with horizontal lines and two diagonals interwoven with horizontal wires, of barbed wire weighing 9.38 kg per 100 m (minimum) between the two posts fitted and fixed with G.I. staples, turn buckles etc. complete. (Cost of posts, struts, earth work and concrete work to be paid for separately):- Payment to be made per metre cost of total length of barbed wire used.				METER	250	17		4250




107	MPPWD 2024 BLD SOR 20.2 vol2	Boring, providing and cast-in-situ plain installation bored cast-in-situ with temporary reinforced cement concrete casing of grade M-25 of specified diameter and length below the pile cap, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. by percussion drilling using Direct mud circulation (DMC) or Bailer and chisel technique by tripod and CHAPTER-20: PILE WORK. 652 Item No. Sub Item No. Item Name Description Unit Rate (in Rs.) 1 2 3 4 5 6 mechanical Winch Machine all complete, including removal of excavated earth with all its lifts and leads (length of pile for payment shall be measured up to bottom of pile cap). Note: Truck Mounted rotary/ TMR/Tubewell boring machine shall not be used.	meter	200	901	180200
108	300 mm dia	Providing and Fixing of sky lights consisting of Multi cell/tight cell Polycarbonate Panel System of approved colour, 16 mm thick (minimum) having uniform in color with an integral Tight-Cell core constructed not to exceed 4mmx4mm in a cross section, Vertical Standing Seam manufactured at both sides of the panel. Snap-on connector to interlock the panels shall have a grip-lock double tooth locking mechanism to ensure maximum uplift capability and shall be of same color as that of panel. Panel shall be factory sealed/end welded panels with additional End-cap/Aluminium U-Profile (mill finish) for ends. Panel shall be co-extruded with special anti glare compound and UV protected. The full system shall be fitted on MS purlins perpendicular to direction of sheeting with purlin spacing as specified by Manufacturer. The rate includes cost of all the operations, labour and all materials and tests (as applicable) involved such as bolts nuts and screws etc. and labour for cutting bending to required profile, necessary scaffolding, hoisting in position etc. for proper completion of the work etc. complete as per specification drawings and direction of Engineer in charge. Finished surface area of roofing fixed over steel tubular structure shall be	Sqm	500	3,277	1638500
109	12.46- UADD SOR 2021 Vol II	Providing and laying tactile tile (for vision impaired persons as per standards) of size 300x300x9.8mm having water absorption less than 0.05% and conforming to IS: 15622 of approved make in all colours and shades for outdoor floors such as footpath, court yard, multi modalis location etc., laid on 20mm thick base of cement mortar 1:4 (cement : 4 sand) in all shapes and patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-Charge.	Sqm	100	1,307	130700
110	11.57- MPPWD SOR 2022 for Civil	Providing and fixing in place digital HD signage 40-55" as per design and as instructed by Engineer in-charge including electrical work, setting up of AV system with a loud speaker facility and with all necessary drivers and elements. Cost includes manufacturing/procurement, transportation, fixing as per instructions of Engineer in charge, testing & periodic monitoring & repairs	each	5	55,000	275000
111	Non SOR					

112	Non SOR	Providing and fixing in place Barille map on Stainless Steel Panel of SS304 grade as per the design and as instructed by the Engineer. Cost includes manufacturing/procurement, transportation, fixing as per instructions of Engineer in charge, testing & periodic monitoring & repairs	each	5	25,000	125000
113	Non SOR	Providing and fixing in place windchimes as per the design and as directed by the Engineer in charge. Cost includes manufacturing/procurement, transportation, fixing as per instructions of Engineer in charge, testing & periodic monitoring & repairs Costing is to be considered per unit	each	25	750	18750
114	Non SOR, Gr	Supply and fixing of base comprising of either a) Polypropylene pots with polypropylene sheet and necessary fixing mechanism or b) any other similar system commonly used as a durable base for vertical green wall	Sqm	25	500	12500
115	Non SOR, Gr	Minimum two varieties of plant species with necessary irrigation, drainage, fertilisation systems, manure and medium	each	25	1,750	43750
116	9.1.9.1.1, UADD SOR 2021 Vol II	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position : Second class teak wood	Cum	5	93,005	465025
117	PWD, Dehradun uttarakhand Bamboo Hut Construction	Fabrication of 3 inch bamboo column and bundle the column with 3 poles and tighten it 10 nun draw bolt/grub bolt and 10nun nuts and washer. Erect the column by grouting in a concrete mix of 1 cement: 2 coarse sand: 4 S-Aggregate from the column foundation depth of 2 feet.	each	10	1,55,000	1550000
118	Non SOR	Providing and placing Cocopeat as per the instruction of Engineer In-Charge	Kg	2500	10	25000
119	Non SOR	Providing and fixing geotextile fabric layer of 150GSM of approved quality as per the instructions of Engineer In-Charge	Sqm	1000	108	107800
120	Non SOR	36 mm EPDM flooring (30 mm SBR + 6 mm EPDM) : Providing and laying approved 30 mm insitu SBR rubberized flooring plus 6 mm EPDM flooring laid over concrete which can resist UV radiation and withstand severe weather conditions and approved colour complete for safety of kids in play areas. Including cost of PU Binder/Glue etc as required for the works.	Sqm	50	2,156	107800
121	20.6, 20.6.1 UADD SOR 2021 Vol II	Providing and laying filter material as given below in recharge pit/ percolation pit or soak pit/ waste water treatment system.	Cum	100	1,585	158500
122	Non SOR	Providing and fixing acrylic 3mm transparent sheets to form cubes of acrylic with vinyl printing pasted on it as per design and fixing into story wall as per the instructions of Engineer in charge	Nos.	200	300	60000
123	Non SOR	Providing and mounting on/cladding on wall sensory play elements such as colour disc, climbing bars, textures, wall mounted interactive panels, acoustic elements, musical play panels made with wooden/clay/any other soft & natural materials per the drawing and as approved by the Engineer in charge. Cost includes manufacturing/supply of finished products, transportation, joineries, labour, extra labour and material. The wooden elements, raw wood and joineries shall be made of teak/sagwan or equivalent wood and needs to get approved from the Engineer in charge. Dimensions of the wall - 9mX0.25mX1.5m Length of each part - 3.0m Wall shall be made up of AAC blocks and the sensory elements, play panels and climbing elements shall be installed in the respective parts of the walls				

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124		Sensory wall interactive play mountings	Nos.	20	2,000	40000
125	Non SOR	Providing and fixing wooden swings 2 in numbers with lockable bucket seats and a wooden slide as per design and as approved by the Engineer in charge. Cost includes manufacturing/supply of finished products, transportation, joineries, labour, extra labour and material. The wooden elements, raw wood and joineries shall be made of teak/sagwan or equivalent wood and needs to get approved from the Engineer in charge.				
126		Toddler slide and swing	Nos	10	15,000	150000
127	Non SOR	Providing and fixing crossing/balancing bridge for 3-5 year old children made up of wood/bamboo and a net made of fabric & joint without any metals as per design and as approved by the Engineer in charge. Cost includes manufacturing/supply of finished products, transportation, joineries, labour, extra labour and material. The wooden elements, raw wood and joineries shall be made of teak/sagwan or equivalent wood and needs to get approved from the Engineer in charge. Dimensions of the assembly - 8.4m X 1.55m X 2.0m				
128		Crossing bridge	Nos	10	60,000	600000
129	Non SOR	Providing and fixing recycled planters planter with straight sides PPS 900 or equivalent as per design and as approved by the Engineer in charge. Cost includes manufacturing/supply of finished products, transportation, joineries, labour, extra labour and material. The wooden elements, raw wood and joineries shall be made of teak/sagwan or equivalent wood and needs to get approved from the Engineer in charge. Dimensions of each bin - 0.9m X 0.5m X 0.6m				
130		Recycled Planters	Nos	55	2,145	117975
131	Non SOR	Providing and fixing harmonical music creating assembly made up of wood+metal or metal hollow pipes, provided with atleast 2 elements to play te music & tied to the structure as per design and as approved by the Engineer in charge. Cost includes manufacturing/supply of finished products, transportation, joineries, labour, extra labour and material. The wooden elements, raw wood and joineries shall be made of teak/sagwan or equivalent wood and needs to get approved from the Engineer in charge. Dimensions of the assembly option 1 - 1.8m X 0.4m X 1.2m Dimensions of the assembly option 2 - 0.75m X 0.75m X 1.2m				
132		Musical play	Nos	20	5,000	100000
133	Non SOR	Providing and fixing ladders made up of wood/bamboo & fabric of 0.6m width as per design and as approved by the Engineer in charge. Cost includes manufacturing/supply of finished products, transportation, joineries, labour, extra labour and material. The wooden elements, raw wood and joineries shall be made of teak/sagwan or equivalent wood and needs to get approved from the Engineer in charge.				
134		Ladders	Nos	38	1,000	38000

135	Non SOR	Providing and fixing merry go round made of wood and metal, mounted to flush the finished ground level to make it accessible through wheelchair and as per design and as approved by the Engineer in charge. Cost includes manufacturing/supply of finished products, transportation, joineries, labour, extra labour and material. The wooden elements, raw wood and joineries shall be made of teak/sagwan or equivalent wood and needs to get approved from the Engineer in charge.	Nos	2	12,000	24000
136		Merry go round				
137	Non SOR	Providing and fixing wooden swings for older children with two wooden/bamboo/net seatings as per design and as approved by the Engineer in charge. Cost includes manufacturing/supply of finished products, transportation, joineries, labour, extra labour and material. The wooden elements, raw wood and joineries shall be made of teak/sagwan or equivalent wood and needs to get approved from the Engineer in charge. Dimensions of the assembly - 2.0m X 1.5m X 1.8m				
138		Swing	Nos	5	15,000	75000
139	Non SOR	Providing and fixing spring play made with metal/wooden panels fixed on the springs to make a jumbling and balancing play as per design and as approved by the Engineer in charge. Dimensions of one disc - 0.6m dia X 0.3m height without compression				
140		Spring play	Lumpsum	1	30,000	30000
141	Non SOR	Providing and fixing spiral slide with almost a full 360 degree design of turning twisting fun made of thermoformed yellow HDPE or FRP that provides sturdy enjoyment up to 100 kgs as per design and as approved by the Engineer in charge. Dimensions - 1.6m X 1.6m X 3.25m Height till the base of the slide - 2.4m				
142		Spiral slide	Nos	1	20,000	20000
143	Non SOR	Providing and fixing climbing panel made with wood and fabric net as per design and as approved by the Engineer in charge. Cost includes manufacturing/supply of finished products, transportation, joineries, labour, extra labour and material. The wooden elements, raw wood and joineries shall be made of teak/sagwan or equivalent wood and needs to get approved from the Engineer in charge. Dimensions - 1.2m X 1.2m X 1.2m				
144		Climbing panels	Nos	5	10,000	50000
145	Non SOR	Providing and fixing fabric net without any metal ties supported across span through bamboo/wooden/metal supports as per design and as approved by the Engineer in charge. Cost includes manufacturing/supply of finished products, transportation, joineries, labour, extra labour and material. The wooden elements, raw wood and joineries shall be made of teak/sagwan or equivalent wood and needs to get approved from the Engineer in charge. Dimensions of the assembly - 36.0m X 1.25m X 2.4m				
146		Net for adventure play	Metres	25	2,500	62500
147	Non SOR	Supply and laying soft and smooth red soil without any stones, impurities etc. as instructed by the Engineer in charge				

148	Red soil	Cum	25	1,400	492275
149	MP PWD BLD SOR VOL 1 ITEM NO 11.73 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 sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-Charge).	cum	75	6,097	457275
MP PWD BLD SOR & NON SOR Total					28062395

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ARIF ALI
 Engineer (Civil)
 ISCDL

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ARIF ALI
 Engineer (Civil)

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Executive Engineer
 Indore Smart City Development Ltd.

Estimate For Community Hall 7000 sqft(G+1)

No.	SOR /NON SOR	Description of Item	Unit	Qty	Rate	Amount
1	MPPWD 2024 BLD 2.6	Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means / manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed.				
2		All kinds of ordinary soil	Cu m	1000	147	147000
3	MPPWD Building SOR , item no. 1.1.2 and page no.02	Transportation By Mechanical Transport including loading, unloading and stacking. Lead upto 5 km	Cu. Mt.	500	207.04	103520
4	MPPWD 2024 BLD 2.24	Filling available excavated earth (excluding hard rock/Ordinary 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.	Cu m	500	95	47500
5	MPPWD 2024 BLD 2.27.1	With hard muram having CBR >12 % at under floors including watering, ramming and compacting (minimum compaction 95% of MDD) in layers not exceeding 20cm in thickness and dressing complete. (Note:- maximum thickness of this layer to be provided shall be 30cm)	cum	500	393	196500
6	MPPWD 2024 BLD 2.26	Supplying and filling in plinth with crusher stone dust / coarse sand unde floors including, watering, ramming and compacting in layers not exceeding	cum	100	672	67200
7	MPPWD BLD 2024 SOR 5.9	Centering and shuttering including strutting,propping stretching etc. complete for and removal				
8		of formwork by sheet plate or plywood shuttering for :	sqm	700	190.6	133420
9	MPPWD BLD 2024 SOR 5.9.6	FOR COLS. Above ground level upto plinth level				
10	i	19.1.6 Columns, Pillars, Piers, Abutments, Posts and Struts.				
11		for cols above G.L. up to plinth level-				
12		C1-(196X200X300)	Sqm	1000	471.2	471200
13		above F1- 13 nos. total qty of col				
14	MPPWD BLD 2024 SOR 5.9.2.1	Lintels, beams, plinth beams, girders, bressumers and cantilevers.				
15	i	for plinth beams- PB1 (200X300)	Sqm	600	219	131400
16	MPPWD BLD 2024 SOR 4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level :				
17	4.1.1	With 20mm nominal size graded stone aggregate				
18	MPPWD BLD 2024 SOR 4.1.1.4	M-10Nominal (Mix-1 Cement : 3 sand : 6 graded stone aggregate)				
19	i	for col. Footing pits- base 100mm thick	Cum	45	3890	175050

20	MPPWD BLD 2024 SOR 4.1.1.2	M-20 – Grade concrete							
21		for col. Footing - Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc. upto floor two level, excluding the cost of centering, shuttering and finishing :	Cum	250	4933	1233250			
22	MPPWD BLD 2024 SOR 4.2								
23	MPPWD BLD 2024 SOR 4.2.1	With 20mm nominal size graded stone aggregate							
24	MPPWD BLD 2024 SOR 4.2.1.2	M 20 – Grade concrete	Cum	150	5177	776550			
25	MPPWD BLD 2024 SOR 5.3.1	Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in beams, suspended floors, roofs having slope of any degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral staircases above plinth level and upto floor two level excluding the cost of centering, shuttering, finishing and reinforcement in concrete grade.							
26		total qty of M-20 for beam Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire all wastages and overlaps, couplers (overlaps shall be provided as per requirement of IS 13920 for ductile detailing IS 456 RCC Design & SP 34 Reinforcement detailing) etc. complete . (Note:- 1. Spacer bars (chairs) shall be paid separately as shown in the drawing and as per direction of engineer in charge. 2. No extra payment shall be done for overlaps and/or couplers. 3. Couplers shall be conforming to IS code on "Reinforcement Couplers for Mechanical Splices of Bars for Concrete Reinforcement - Specification")	cum	10	6541	65410			
27	MPPWD BLD 2024 SOR 5.16								
28	MPPWD BLD 2024 SOR 5.16.6	Thermo-Mechanically Treated bars. FE 500 D or more conforming to IS 1786							
29		Total qty Of RCC	kg	20000	80	1600000			
30	MPPWD 2024 BLD SOR 6.6.1	Brick work with open bhatta bricks) conforming to IS:12894-2002, in super structure above plinth level up to floor two							
31		level in :	Cum	288	4541	1307808			
32	MPPWD 2024 BLD SOR 13.1	12 mm cement plaster of mix :							
33	13.1.1	1:4 (1 cement: 4 sand)							
34		for inside plastering-							
35			Sqm	1600	173	276800			
37	MPPWD 2024 BLD SOR 13.2	15 mm cement plaster on rough side of single or half brick wall of mix							

38	13.2.1	1:4 (1 cement: 4 sand) out side plaster work -						
39								
40			Sqm	1600	184			294400
41	MPPWD 2024 BLD SOR 13.54	Finishing walls by any mechanical or manual means with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :						
42	MPPWD 2024 BLD SOR 13.54.3	Two or more coats applied on walls @ 1.25 ltr/10 sqm. Over and including one coat of Special primer applied @ 0.75 ltr / 10 sqm.						
43		Total qty of 12mm Plaster	Sqm	3240	81			262440
44	MPPWD 2024 BLD SOR 9.7.2	12 mm thick pre-laminated particle board (decorative lamination on both sides) grade - 1, medium density flat pressed, three layer particle board FPT - I or graded wood particle board FPT - I, conforming to IS : 3087 bonded with BWP type synthetic resin adhesive as per IS : 848 and pre-lamination conforming to IS : 12823 Grade 1, Type - II marked:	Sqm	150	2868			430200
45	MPPWD 2024 BLD SOR 9.1.1	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 and length (hold fast lugs or dash fastener shall be paid for separately).						
46		Second class teak wood	cum	3	90168			270504
47	MPPWD 2024 BLD SOR 9.1.3	Extra for S.S, hinges providing ISI marked Stainless Steel butt hinges instead of M.S. pressed butt hinges bright finished of required size with necessary screws. (Shutter area to be measured).	Sqm	500	117			58500
48	MPPWD 2024 BLD SOR 9.28.2	roviding and fixing expandable fasteners of specified size with necessary plastic sleeves and galvanised M.S. screws including drilling holes in masonry work /CC/ R.C.C. and making good etc. complete.	Sqm	500	18			9000
49		32 mm long						
50	MPPWD 2024 BLD SOR 9.48	Providing 40x5 mm flat (iron hold fast 40 cm long) (0.628 kg) including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embeddings in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 sand : 6 graded stone aggregate 20mm nominal size)	Each	20	95			1900
51	MPPWD 2024 BLD SOR 9.6	Providing and fixing ISI marked oxidised M.S. door latches conforming to IS:5930 with screws etc. complete :						
52		300x20x6 mm	Each	25	72			1800
53	MPPWD 2024 BLD SOR 9.69	Providing and fixing ISI marked stainless steel handles with necessary screws etc. complete :						
54		125 mm	Each	25	60			1500





55	MPPWD 2024 BLD SOR 21.1.1.2	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) :	kg	700	416	291200
56		Powder coated aluminium (minimum thickness of powder coating 50 micron)				
57	MPPWD 2024 BLD SOR 21.9	Filling the gap in between aluminium frame and 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. Upto 5 mm depth and 5 mm width				
58		Silicon sealant	m	1000	53	53000
59	MPPWD 2024 BLD SOR 21.3.2	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)				
60		With float glass panes of 5.0 mm thickness (weight not less than 12.50 kg/sqm)	Sqm	200	948	189600
61	MPPWD 2024 BLD SOR 9.43.2	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.				
62		Fixed to openings /wooden frames with rawl plugs screws etc.	kg	1500	128	192000

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63	MPPWD 2024 BLD SOR 12.58.1.1	<p>Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes, finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with</p>	Sqm	800	750	600000
64		Plain board conforming to IS: 2095- Part I: 2011. (Board with BIS certification marks).	Sqm	400	885	354000
65	MPPWD 2024 BLD SOR 22.7	<p>Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: a) Applying a slurry coat of neat cement using 2.75 kg/sqm. of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300mm height including cleaning the surface before treatment. b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115mm size with 50% of cement mortar 1:5 (1 cement : 5 sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-Charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 sand) admixed with water</p>	Sqm			

RE


66	MP UADD 2021VOL.2 19.4	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40mm dia. M.S. tube 1.5m centre to centre horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube chollies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after. The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in-charge. The lavational area of the scaffolding shall be measured for payment purpose. The payment will be made once irrespective of duration of scaffolding.	Sqm	1000	154	154000
67	mp pwd bld sorVOL.1 13.54.2	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 or manufacture.	Sqm	3000	71	213000
68	MPPWD 2024 BLD SOR 11.30.1.1	Providing and laying gang saw cut 18 mm thick, mirror polished premoulded (wherever required) and pre polished machine cut granite stonework in flooring of required size shape of approved shade, color and texture in flooring laid over 20 mm thick base of cement mortar 1:4 (1 Cement: 4 sand) including grouting the joints with white cement mixed with matching pigments epoxy touch ups etc. complete as per direction of Engineer-in Charge.	Sqm	100	2642	264200
69		Fine grained granite dark Black/dark Red/ White or equivalent with self design/ pattern/crystals of other colors of glitter	Sqm	100		0
70	MPPWD 2024 BLD SOR 11.78	Providing and laying vitrified floor tiles Multi/Double charged (Minimum top layer thickness 2.0mm) Neno Polished self design, in different size with water absorption less than 0.05% and conforming to IS:15622 of approved CHAPTER -11: FLOORING. 356 Item No. Sub Item No. Item Name Description Unit Rate (in Rs.) 1 2 3 4 5 6 make in all colours& shades, quality/ premium quality in flooring laid on 12mm thick cement mortar 1:4(1cement :4sand) including grouting the joints with white cement and matching pigments etc. complete	Sqm	800	1104	883200
71		Plain ivory light shade Size 600X600mm thickness 9-10mm	Sqm	500	776	388000
72	MPPWD 2024 BLD SOR 11.50	Providing and fixing Ceramic glazed wall tiles 300x450 mm or more (having thickness 6 to 7 mm) of 1st quality conforming to IS: 15622 of approved make in all Colours& shades, except burgundy, bottle green, black laid on 12mm thick bed of Cement Mortar 1:3 (1 Cement: 3 sand)prepad same day when mortar is still green jointed with grey cement slurry @3.3 kg per sqm including pointing the joints with white cement and matching pigments etc., complete.	Sqm	500		
73	MPPWD 2024 BLD SOR 11.36	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 mirror polishing complete with base of cement mortar 1 : 4 (1 cement : 4 sand) having thickness of slab 25 mm (Area of slab to be over 0.25 sqm) Note: - Deduction shall be made for not mirror polishing according to item no 11.43	Sqm	500	1174	587000




74	MPPWD 2024 BLD SOR 17.1.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast Iron P or S trap, UPVC 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 :	Each	10	2995	29950
75		White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests.	Each	10		
76	MPPWD 2024 BLD SOR 17.6.1	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :				
77		One urinal basin with 5 litre white P.V.C. automatic flushing cistern.	Each	10	2754	27540
78	MPPWD 2024 BLD SOR 18.28	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 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	per liter	10000	7	70000
79	MPPWD 2024 BLD SOR 10.14 vol1	Steel work in built up M.S. tubular section (round, square or rectangular hollow tubes etc.) trusses/frame work 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.				
80		Hot finished welded tubes	kg	2500	117	292500
81	MPPWD 2024 BLD SOR 10.1 vol1	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	3000	91	273000
82	MPPWD 2024 BLD SOR 13.41 vol1	Providing and applying white cement based putty of average thickness 1 mm, of approved brand over the plastered wall surface to prepare the surface even and smooth i/c all cost of material, labour and scaffold etc in all position complete. Note : Putty shall be applied only on the internal walls, for application on the exterior walls prior permission of Chief Engineer will be required.	SQM	3000	74	222000
83	MPPWD 2024 BLD SOR 10.25 vol1	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 and stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge. (For payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.)	kg	1000	582	582000
84	NON-SOR	Reception Desk 1800Wx750Dx1200H Top Depth 750 mm. Top made of 25 mm thick Pre-laminated Particle Board. PVC edge beading of 2 mm edges by Through Feed Machine. Provision of Cable manager as per L.H. or R.H. side requirement.	Each	2	39150	78300

85	NON-SOR	<p>Low Back Revolving Chair Specification- Size:H:930-1030mm, Seat ht: 460-560mm, D-680mm, W-580 mm. 5-Prong nylon base for stability. Twin Wheel heavy Duty Castor for easy mobility under load. Seat Hot pressed ply wood with steel T-Nuts for rigid fastening with PP cover. Back is moulded Bright Bar with stitched Mesh Cloth. Sturdy steel column gas lift for centre support and seat height adjustment. Telescopic ABS cover over steel column. Lockable synchrony tilt mechanism and with Single piece Die castes PP arm rest adjustable with PP pad. Quality tapestry. High density Moulded PU cushion.</p>	Each	5	5370	26850
86	NON-SOR	<p>Premium Sofa Three Seater Providing and placement of 3 seater sofa with Overall Size 1750mm(W) 820mm(D) 820(H). Seat Ht 440mm. Handle Ht- 650mm. Upholstery Material: Premium Quality Pu Cloth/Leatherite. Frame Material : Combination of plywood and pine Wood, Plywood thickness : 12 mm (moisture resistance and termite free) & 3 mm. Pinewood cross section - 22x64 mm. Moisture content: 10-12%. Seat Material : 45 mm thick U foam, Density : 32. Super soft 45 mm at top. Dacron 150GSM. Back Material : 45mm thick U foam, Density : 28. Super Soft 45 mm. 22mm thick U foam, Density : 28. Outer foam 10 mm thick, Density 28. Dacron 150 GSM. Fitted with 75 mm wide elastic belts. S/Zick Zack Spring of dia. 3.8 mm mounted on seat structure using Metal mounting clip. Legs : Prime quality Metal, Ht. 150mm.</p>	Each	5	25300	126500
87	NON-SOR	<p>Premium Sofa Two Seater Providing and placement of 2 seater sofa with Overall Size 1270mm(W) 820mm(D) 820(H). Seat Ht 440mm. Handle Ht- 650mm. Upholstery Material: Premium Quality Pu Cloth/Leatherite. Frame Material : Combination of plywood and pine Wood, Plywood thickness : 12 mm (moisture resistance and termite free) & 3 mm. Pinewood cross section - 22x64 mm. Moisture content: 10-12%. Seat Material : 45 mm thick U foam, Density : 32. Super soft 45 mm at top. Dacron 150GSM. Back Material : 45mm thick U foam, Density : 28. Super Soft 45 mm. 22mm thick U foam, Density : 28. Outer foam 10 mm thick, Density 28. Dacron 150 GSM. Fitted with 75 mm wide elastic belts. S/Zick Zack Spring of dia. 3.8 mm mounted on seat structure using Metal mounting clip. Legs : Prime quality Metal, Ht. 150mm.</p>	Each	5	₹ 20,900	104500
88	NON-SOR	<p>Center Table 900 X600 Overall Dimension: 900 X 600 X 450 H mm • Made up of High Moisture Resistant 25mm Thick Prelaminated Particle Board • One side laminated, Color matching to running Color Scheme. • Edges finished with 2mm self glued hot pressed PVC Edge Biding by Rehau or equivalent. • Base will be in Trirod Pattern as shown in image • Made up of mild steel round bright bars finished with Powdercoating • Powder coating of all the metal units must be of 70 micron tank process with oven baking coat by polyester powder coating.</p>	Each	5	₹ 5,525	27625

89	NON-SOR	Common Chair Size:-Overall H: 830mm, Seat h: 460mm, D: 580mm, W: 535mm: Under Structure made of 19mm dia MS cold rolled close annealed tube 1.2 mm thick, duly powder coated after anti corrosion treatment of surface. Seat and back are made of 12mm thick Hot pressed ply wood with high density PU foam, upholstered with fine quality fabric. Arms Tubular. Steel components are epoxy powder coated followed by seven tanks anti corrosion pre-treatment of surface. Upholstery 0.6 Mtr.	Each	40	₹ 2,830	113200
90	NON-SOR	Double Almirah Size:-height:1980mm, width:910mm depth:550mm, All Body part made-up of prime quality cold rolled close annealed Sheet 0.8mm thick, doors 1mm thick. Use only MIG/TIG & Spot welding for fabrication. Vertically divided into two parts with provision of two separate doors, provided with 1 adjustable shelf and 1 Drawer in each compartment. Three way locking device with six levers superior quality lock for Door. Doors are mounted on pin type MS hinges. All steel components are epoxy powder coated followed by seven tanks anti corrosion treatment of surface.	Each	5	₹ 34,465	172325
91	NON-SOR	Executive Chair - Visitor Size: Total Height-840mm, Depth 600mm, Width-575mm Seat Height:450mm. Under Structure cantilever type MS cold rolled close annealed Tube 1.6 mm thick. Hot pressed ply wood with steel T-Nuts for rigid fastening. Single piece integral skin PU arm rest. Quality tapestry. Seat and back covered with PP covers. High density PU moulded cushion. All steel components are epoxy powder coated followed by seven tanks anti corrosion treatment of surface. Upholstery 1.2 Mtr.	Each	5	₹ 5,370	26850
92	NON-SOR	Podium Overall Dimension: W-600mmX D-450mmX H-1260mm: - 200mm wide Leg section made of extruded Aluminium section and MS cold rolled close annealed covers for wire management. Top made up of 18mm the prelaminated partial board with teak wooden edge banded on edges. One edge protruded up, would be of teak wood to hold the paper / books. All metal section powder-coated with min. 45 micron DFT after anti corrosion surface treatment.	Each	1	₹ 11,075	11075
93		Providing and fixing unplasticised Rigid PVC soil and waste pipes conforming to IS: 13592 Type B including jointing with seal ring conforming to IS : 5382 leaving 10 CHAPTER – 17: SANITARY INSTALLATIONS. 570 Item No. Sub Item No. Item Name Description Unit Rate (in Rs.) 1 2 3 4 5 6 mm gap for thermal expansion. Single socketed pipes for working pressure of 4 kg/sqcm. (minimum wall thickness 3.2mm)				
94	MpPwd bld sor vol.2.17.58.1	75mm dia	meter	700	136	95200
95		110 mm diameter	meter	900	238	214200
96	MpPwd bld sor vol.2.17.59	Providing and fixing unplasticised PVC moulded fittings/ accessories for unplasticised Rigid PVC soil and waste pipes conforming to IS: 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.				

97	17.59.1	Coupler										
98	17.59.1.1	75 mm	each	50	117	5850						
99	17.59.1.2	110 mm	each	50	154	7700						
100	17.59.2	Pushfit Coupler										
101	17.59.2.1	75 mm	each	50	140	7000						
102	17.59.2.2	110 mm	each	50	195	9750						
103	17.59.3	Single tee with door										
104	17.59.3.1	75 mm	each	50	219	10950						
105	17.59.3.2	110 mm	each	50	346	17300						
106	17.59.4	Single tee without door										
107	17.59.4.1	75 mm	each	50	201	10050						
108	17.59.4.2	110 mm	each	50	266	13300						
109	17.59.5	Bend										
110	17.59.5.1	75 mm	each	50	117	5850						
111	17.59.5.2	110 mm	each	50	172	8600						
112	22.37	Providing and applying waterproofing treatment in bathroom or tiled balcony area without breaking or removing tiles, by using waterproofing sheets as per manufacturer's data sheet instructions. Permitting use of bathroom/balcony after 24 hours of application of treatment, Complete with materials and labour and guranteee of leakage for a period of 5 year.	sqm	500	653	326500						
113	22.7	Providing and laying integral cement based water proofing treatment including preparation of surface as required fortreatment of roofs, balconies, terraces etc consisting of following operations:a) Applying a slurry coat of neat cement using 2.75 kg/sqm. of cement admixed withwater proofing compound conforming to IS.2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300mm height including cleaning the surface before treatment. b) Laying brick bats with mortar using brokenbricks/brick bats 25 mm to 115mm size with 50% of cement mortar 1:5 (1 cement : 5 sand)admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-Charge over 20mm thick layer of cement mortar of mix 1:5 (1cement :5 sand) admixed with water	sqm	500	885	442500						
Total Civil Work											15591017	
Electrical Work												
S.No	Sub Item No.	Description of Item	Unit	Qty	Rate	Amount						
1	3	5	6	7	8	9						
1	MPPWD ELEC 2024 3.1	Point wiring (excluding metallic switch box & sheet but including switches, sockets, lamp holders/ceiling roses etc) with 1.5sq. mm. PVC insulated cable FRLS with copper multi strand conductor ISI marked in surface rigid P.V.C. conduit (MMS) ISI marked of suitable size and 1.5sq. mm. PVC FRLS insulated copper earth continuity conductor of green colour inside conduit etc. as required as per specification for :-										
2	3.1.1	Light point/fan points.										
3	MPPWD ELEC 2024 3.1.1.1	Primary short point	Each	10	408.00	4080						
4	MPPWD ELEC 2024 3.1.1.2	Primary medium point	Each	10	729.00	7290						

5	MPPWD ELEC 2024 3.1.1.3	Primary long point	Each	10	1141.00	11410
6	3.1.2.1	Secondary short point	Each	10	204.00	2040
7	3.1.2.2	Secondary medium point	Each	10	365.00	3650
8	3.1.2.3	Secondary long point	Each	10	571.00	5710
9	MPPWD ELEC 2024 3.1.3	3 Pin 6 Amp socket outlet on separate board				
10	3.1.3.1	Short point	Each	10	540.00	5400
11	3.1.3.2	Medium point	Each	10	933.00	9330
12	3.1.3.3	Long point	Each	10	1379.00	13790
13	3.1.4	Call bell/buzzer points				
14	MPPWD ELEC 2024 3.1.4.1	Short point	Each		411.00	0
15	MPPWD ELEC 2024 3.1.4.2	Medium point	Each	5	704.00	3520
16	MPPWD ELEC 2024 3.1.4.3	Long point	Each	5	1022.00	5110
17	MPPWD ELEC 2024 3.1.4.4	Medium point	Each	5	874.00	4370
18	MPPWD ELEC 2024 3.1.4.5	Long point	Each	5	1294.00	6470
19	MPPWD ELEC 2024 3.2	Point wiring (excluding metallic switch box & sheet but including switches, sockets) for 3 pin 6 Amp. Socket outlet point with 1.5sq. mm. PVC insulated cable FRLS with copper multi strand conductor ISI marked in surface rigid P.V.C. conduit (MMS) ISI marked of suitable size and 1.5sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit with required materials as per specification on same board.	Each	10	265.00	2650
20	MPPWD ELEC 2024 3.3	Wiring for circuit wiring with PVC insulated cable FRLS with copper multi strand conductor ISI marked in surface rigid P.V.C. conduit (MMS) of ISI marked suitable size etc. as required as per specification				
21	MPPWD ELEC 2024 3.3.1	2x2.5 Sq.mm.	Metre	10	122.00	1220
22	MPPWD ELEC 2024 3.3.2	4x2.5 Sq.mm.	Metre	10	202.00	2020
23	MPPWD ELEC 2024 3.3.3	6x2.5 Sq.mm.	Metre	10	267.00	2670
24	MPPWD ELEC 2024 3.3.4	8x2.5 Sq.mm.	Metre	10	331.00	3310
25	MPPWD ELEC 2024 4.1	Point wiring (excluding metallic switch box & sheet but including switches, sockets, lamp holders/ceiling roses etc) with 1.5sq. mm. PVC insulated cable FRLS with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI marked of suitable size and 1.5sq. mm. PVC insulated FRLS copper earth continuity conductor of green colour inside conduit, screwless connector for joints etc. as required as per specification for :-				
26	4.1.1	Light point/fan points.				
27	4.1.1.1	Primary short point	Each	200	451.00	90200
28	4.1.1.2	Primary medium point	Each	150	830.00	124500
29	4.1.1.3	Primary long point	Each	250	1300.00	325000
30	MPPWD ELEC 2024 4.1.2	(Light point/fan points) looping point				
31	4.1.2.1	Secondary short point	Each	50	226.00	11300
32	4.1.2.2	Secondary medium point	Each	50	415.00	20750
33	4.1.2.3	Secondary long point	Each	50	650.00	32500
34	MPPWD ELEC 2024 4.1.3	3 Pin 6 Amp socket outlet on separate board				
35	4.1.3.1	Short point	Each	30	574.00	17220
36	4.1.3.2	Medium point	Each	42	990.00	41580
37	4.1.3.3	Long point	Each	75	1515.00	113625

38	MPPWD ELEC 2024 4.1.4	Call bell/buzzer points						
39	4.1.4.1	Short point	Each	5	455.00		2275	
40	4.1.4.2	Medium point	Each	10	797.00		7970	
41	4.1.4.3	Long point	Each	10	1183.00		11830	
42	MPPWD ELEC 2024 4.1.5	Twin control light points						
43	4.1.5.2	Medium point	Each	2	948.00		1896	
44	4.1.5.3	Long point	Each	4	1453.00		5812	
45	MPPWD ELEC 2024 4.2	Point wiring (excluding metallic switch box & sheet but including switches, sockets) for 3 pin 6 Amp. socket outlet point with 1.5sq. mm. PVC insulated cable FRLS with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI marked of suitable size and 1.5sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit with required materials as per specification on same board.	Each	100	265.00		26500	
46	MPPWD ELEC 2024 4.3	Wiring for circuit wiring with PVC insulated cable FRLS with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) of ISI marked suitable size etc. as required as per specification						
47	4.3.1	2x2.5 Sq.mm.	Metre	1650	139.00		229350	
48	4.3.2	4x2.5 Sq.mm.	Metre	550	224.00		123200	
49	4.3.3	6x2.5 Sq.mm.	Metre	240	288.00		69120	
50	4.3.4	8x2.5 Sq.mm.	Metre	50	353.00		17650	
51	MPPWD ELEC 2024 8.1	Point wiring (excluding metallic switch box & sheet) for 3 Pin 16 Amp. socket outlet point with 4sq. mm. PVC insulated cable FRLS with copper multi strand conductor ISI marked in surface rigid P.V.C. conduit (MMS) ISI marked of suitable size etc. with 20/16 Amp. F.T. switch & socket/S.S. combined 20/16/6 Amp. of ISI marked and 4sq. mm. PVC insulated FRLS copper earth continuity conductor of green colour inside conduit, screwless connector for joints as per specification for :-						
52	8.1.1	On separate board						
53	8.1.1.1	Short point	Each	2	845.00		1690	
54	8.1.1.2	Medium point	Each	2	1468.00		2936	
55	8.1.1.3	Long point	Each	2	2183.00		4366	
56	8.1.1.4	Extra long -I	Each	2	3069.00		6138	
57	8.1.1.5	Extra long -II	Each	2	4045.00		8090	
58	8.1.1.6	Extra long -III	Each	2	5033.00		10066	
59	MPPWD ELEC 2024 8.2	Same board switch & socket 16 Amp./S.S. combined 20/16/6 Amp	Each	2	437.00		874	
60	MPPWD ELEC 2024 9.1	Point wiring (excluding metallic switch box & sheet) for 3 Pin 16 Amp. socket outlet point with 4sq. mm. PVC insulated cable FRLS with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI marked of suitable size etc. with 20/16 Amp. F.T. switch & socket/S.S. combined 20/16/6 Amp. of ISI marked and 4sq. mm. PVC insulated FRLS copper earth continuity conductor of green colour inside conduit, screwless connector for joints as per specification for :-						
61	MPPWD ELEC 2024 9.1.1	On separate board						
62	MPPWD ELEC 2024 9.1.1.1	Short point	Each	5	985.00		4925	
63	MPPWD ELEC 2024 9.1.1.2	Medium point	Each	40	1749.00		69960	

64	MPPWD ELEC 2024 9.1.1.3	Long point	Each	45	2612.00	117540
65	MPPWD ELEC 2024 9.1.1.4	Extra long-I	Each	55	3648.00	200640
66	MPPWD ELEC 2024 9.1.1.5	Extra long-II	Each	20	4771.00	95420
67	MPPWD ELEC 2024 9.1.1.6	Extra long-III	Each	20	5986.00	119720
68	MPPWD ELEC 2024 9.2	Same board switch & socket 16 Amp./S.S. combined 20/16/6 Amp	Each	30	437.00	13110
69	MPPWD ELEC 2024 15.1	Supplying and fixing PVC conduit as required conforming to IS 9537 (Part-3), ISI marked along with accessories on surface etc. as required.				
70	15.1.1	PVC conduit 20 mm. (MMS)	Metre	2500	51.00	127500
71	15.1.2	PVC conduit 25 mm. (MMS)	Metre	2500	67.00	167500
72	15.1.3	PVC conduit 32 mm. (MMS)	Metre	250	102.00	25500
74	MPPWD ELEC 2024 16.1	Supply and fixing PVC conduits required conforming to IS 9537 (Part-3), ISI marked along with the accessories in concealed system etc. as required.				
75	16.1.1	PVC. conduit 20 mm (HMS)	Metre	50	61.00	3050
76	16.1.2	PVC. conduit 25 mm (HMS)	Metre	50	74.00	3700
77	16.1.3	PVC. conduit 32 mm (HMS)	Metre	50	115.00	5750
78	MPPWD ELEC 2024 18.2	Supplying and fixing of approved make modular type G.I. metal box 1.2mm minimum thick and depth 50mm for single row boxes and 60mm depth for two/three row boxes earth terminal stud with nut and washer with modular base and cover plate including fixing in concealed etc. as required for:-				
79	MPPWD ELEC 2024 18.2.1	1Or 2 Module metal box	Each	10	182.00	1820
80	MPPWD ELEC 2024 18.2.2	3 Module metal box	Each	20	216.00	4320
81	MPPWD ELEC 2024 18.2.3	4 Module metal box	Each	20	244.00	4880
82	MPPWD ELEC 2024 18.2.4	6 Module metal box	Each	20	309.00	6180
83	MPPWD ELEC 2024 18.2.5	8/9 Module metal box	Each	30	373.00	11190
84	MPPWD ELEC 2024 18.2.6	12 Module metal box	Each	10	502.00	5020
85	MPPWD ELEC 2024 18.2.7	16 Module metal box	Each	10	585.00	5850
86	MPPWD ELEC 2024 18.2.8	18 Module metal box	Each	15	642.00	9630
88	MPPWD ELEC 2024 18.3	Supplying and fixing of approved make modular type PVC box minimum depth 40mm and minimum thickness 2mm with modular base and cover plate including fixing on surface etc. as required for:-				
89	MPPWD ELEC 2024 18.3.1	1 Or 2 Module PVC box	Each	5	155.00	775
90	MPPWD ELEC 2024 18.3.2	3 Module PVC box	Each	5	177.00	885
91	MPPWD ELEC 2024 18.3.3	4 Module PVC box	Each	5	210.00	1050
92	MPPWD ELEC 2024 18.3.4	6 Module PVC box	Each	5	254.00	1270
93	MPPWD ELEC 2024 18.3.5	8/9 Module PVC box	Each	5	314.00	1570
94	MPPWD ELEC 2024 18.3.6	12 Module PVC box	Each	5	402.00	2010
95	MPPWD ELEC 2024 18.3.7	16 Module PVC box	Each	5	442.00	2210
96	MPPWD ELEC 2024 19.1	Supplying and drawing single core PVC insulated cable FRLS with copper multi strand conductor ISI marked In existing rigid PVC casing and capping/conduit in surface or concealed as per specification.				
97	MPPWD ELEC 2024 19.1.1	1.5 sq. mm. wire				
98	19.1.1.1	1 X 1.5 sq. mm.	Metre	600	19.00	11400
99	19.1.1.2	2 X 1.5 sq. mm.	Metre	350	38.00	13300
100	19.1.1.3	3 X 1.5 sq. mm.	Metre	350	56.00	19600
101	MPPWD ELEC 2024 19.1.2	2.5 sq. mm. wire				

102	19.1.2.1	1 X 2.5 sq. mm.	Metre	2490	30.00	74700
103	19.1.3	4.00 sq. mm. wire				
104	19.1.3.3	3 X 4.00 sq. mm.	Metre	1000	134.00	134000
105	MPPWD ELEC 2024 23.1	Wiring for sub-mains with PVC insulated cable FRLS with copper multi strand conductor ISI marked in recessed/concealed rigid PVC conduit (HMS) ISI marked of suitable size (conduit included) including 2mm thick accessories, connection etc, as required as per specification. (Refer General Notes for Classification of Conduit Wiring Point No.10)				
106	23.1.2	3 Wire sub main				
107	23.1.2.1	2.5 sq. mm. cable	Metre	500	205	102500
108	23.1.2.2	4.0 sq. mm. cable	Metre	500	254	127000
109	23.1.2.3	6.0 sq. mm. cable	Metre	100	321.00	32100
110	MPPWD ELEC 2024 23.1.4	4 Wire sub main				
111	23.1.4.3	6.0 sq. mm. cable	Metre	50	398.00	19900
112	23.1.4.4	10.0 sq. mm. cable	Metre	50	601.00	30050
113	23.1.4.5	16.0 sq. mm. cable	Metre	50	873.00	43650
114	MPPWD ELEC 2024 27.5	Supplying of ISI marked and approved make of moulded case circuit breaker (MCCB) suitable for 3 phase & N, 4 pole, 50 Hz, 415 Volts, (ics=100%Icu) AC supply with microprocessor release with inbuilt instantaneous protection & variable trip class 7.2 Ir & 6 Ir having respective breaking capacity (KA) at 415 Volts cited against their range standard conforming to IS/IEC 60947-2				
115	MPPWD ELEC 2024 27.5.1	MCCB 25KA current rating - 40 & 100 Amps 4 Pole & micro-processor release, over load 40% - 100% x In. & short circuit 1.5 - 8 x Ir. adjustable	Each	6	21576.00	129456
116	MPPWD ELEC 2024 27.8	Supply of ISI marked and accepted standard of miniature circuit breaker (MCB) of 'C' series with short circuit indication, suitable for 240/415 Volts, 50 Cycle, 10 kA/15 kA Value AC supply conforming to IS : 8828 : 1996, IEC : 60898 : 2002 & 60947-2 but without enclosures :-				
117	27.8.1	Single pole				
118	27.8.1.1	MCB SP 0.5Amp to 5Amp 10kA rating	Each	5	439.00	2195
119	27.8.1.2	MCB SP 6Amp to 32Amp 10kA rating	Each	300	263.00	78900
120	MPPWD ELEC 2024 27.8.2	Double pole				
121	27.8.2.2	MCB DP 6Amp to 32Amp 10kA rating	Each	10	887.00	8870
122	27.8.2.3	MCB DP For 40Amp 10kA rating	Each	10	1329.00	13290
123	MPPWD ELEC 2024 27.8.3	For Triple pole				
124	27.8.3.2	MCB TP 6Amp to 32Amp 10kA rating	Each	2	1411.00	2822
125	27.8.3.3	MCB TP For 40Amp 10kA rating	Each	2	2099.00	4198
126	27.8.3.4	MCB TP 50Amp to 63Amp 10kA rating	Each	2	2157.00	4314
127	MPPWD ELEC 2024 27.8.4	Four pole				
128	27.8.4.2	MCB FP 6Amp to 32Amp 10kA rating	Each	2	1965.00	3930
129	27.8.4.3	MCB FP For 40Amp 10kA rating	Each	2	2714.00	5428
130	27.8.4.4	MCB FP 50Amp to 63 Amp 10kA rating	Each	10	2795.00	27950
131	MPPWD ELEC 2024 27.11	Supply of approved make powder coated sheet steel encloser SPN MCCB DB inclusive of busbar, neutral bar, earth bar, connection copper wire not less than 16 sq.mm & two earth terminals etc. complete as per IS:13032(exclusive of MCB & isolator)-				

132	27.11.6	12 Way double door IP 43 protection	Each	2	2738.00	5476
133	MPPWD ELEC 2024 27.12	Supplying of approved make TPN MCB DB metal double door IP 43 protection with provision for FP MCB/ Isolator/ RCCB/ RCBO as incomer and SP MCBs as outgoing inclusive of busbar, neutral bar, earth bar, connection copper wire not less than 16 sq.mm & two earth terminals etc. complete as per IS:13032(exclusive of MCB & isolator):	Each			
134	27.12.2	4 Way (8+12)	Each	2	4444.00	8888
135	27.12.3	6 Way (8+18)	Each	2	5526.00	11052
136	MPPWD ELEC 2024 27.14	Supplying of approved make, powder coated metal double door vertical TPN MCB DB IP 43 protection with provision for MCCB upto160A TP/FP 36kA as incomer and space for SP/TP MCBs as outgoing (without MCCB/MCBs) inclusive of busbar & connections etc	Each			
137	27.14.1	4 Way without MCCB	Each	2	13822.00	27644
138	MPPWD ELEC 2024 27.21	Supplying and installing of RCBOs (Residual current circuit breaker with overload and short circuit protection) ISI marked complete as per I.S. standard conforming to IEC:61009-1 & IS:12640-2, 240/415V 50 Hz with 10 kA short circuit withstand capacity for earth leakage, overload & short circuit protection including connection in existing enclosure in approved manner as per specification.	Each			
139	27.21.1	DP (4 module)	Each	6	4491.00	26946
140	27.21.1.1	2 pole 6Amp to 25Amp, 30 mA sensitivity	Each			
141	27.21.2	FP (8module)	Each	8	7077.00	56616
142	27.21.2.3	4 pole 40Amp, 30mA sensitivity	Each	8	7908.00	63264
143	27.21.2.4	4 pole 63Amp, 30mA sensitivity	Each			
144	MPPWD ELEC 2024 28.4	Fixing of MCB/MCCB/Isolator in sheet steel enclosure as required as per accepted practice, including mounting on busbar and cable connection etc. complete (labour only)	Each	462	22.00	10164
145	28.4.1	MCB/Isolator SP/DP	Each	108	28.00	3024
146	28.4.2	MCB/MCCB Isolator TP/TPN/FP	Each			
147	MPPWD ELEC 2024 28.8	Labour charges for fixing sheet steel enclosures, MCB/MCCBDB flush mounting type, as per accepted practice, duly embedded and end plate completely flushed in wall, cable connection etc. complete :-	Each			
148		For item no :-	Each			
149	28.8.1	27.11.1 to 27.11.7 ; 27.12.1 to 27.12.3 & 27.13.1	Each	38	268.00	10184
150	28.8.2	27.12.4 & 27.12.5 ; 27.13.2 to 27.13.4 ; 27.14.1 to 27.14.4 & 27.15.1 to 27.15.4	Each	12	297.00	3564
151	MPPWD ELEC 2024 29.4	Supply and fixing as per specification modular call bell indicator 230Volt A.C. including reset and buzzer of approved make with necessary materials complete.	Each			
152	29.4.1	Bell indicator with reset(1 Module) 250Volt	Each	5	177.00	885
153	29.4.2	Buzzer modular (2 Module)	Each	5	209.00	1045
154	MPPWD ELEC 2024 29.7	Supply and fixing in position LED lamp of approved make	Each			
155	29.7.3	5 Watt250Volt	Each	5	98.00	490
156	29.7.4	7 Watt250Volt	Each	5	108.00	540
157	29.7.5	9 Watt250Volt	Each	5	110.00	550

158	29.7.6	12 Watt250Volt	Each	5	191.00	955
159	MPPWD ELEC 2024 29.25	Supply and fixing of approved make step type modular electronic fan regulator including connection etc. as required on existing board				
160	29.25.2	100 Watt(2 module)	Each	50	484.00	24200
161	MPPWD ELEC 2024 29.27	Supply, fixing, testing & commissioning wall/floor mounted LT panel primer coated with powder coated paint & provided with required gasket for dust/vermin proof with degree of protection IP42 suitable for 415Volt 3 phase, 50 Hz, 4 wire system fabricated out of CRCA sheet upto 2 mm thick (1.6 mm for doors) duly compartmentalized for incomer, bus section, outgoing, cable alleys & CT, PT Ampere Metre, Volt Metre, selector switches, frequency Metre, phase indicating lamp, Energy Metre complete including cost of busbar supports, detachable cable gland plates, 2 earthing terminals, internal wiring & fixing of separately supplied MCBs, MCCBs, ACB, panel mounted changeover switch/SFUs, etc. as required but excluding cost of busbar strips, Ampere Metre, Volt Metre, selector switch as per approved design & specification	Kg	250	397.00	99250
162	MPPWD ELEC 2024 29.28	Supply and fixing of LT panel accessories of approved make in existing LT panel including connections etc. as required as per specification.				
163	29.28.4	Multifunction Meter	Each	2	2587.00	5174
164	29.28.6	Aluminium bus bar strips with PVC sleeves	Kg	100	284.00	28400
165	29.28.7	LED lamp indicator	Each	12	255.00	3060
166	MPPWD ELEC 2024 30.1	Supplying, erection and testing of approved make electric Ceiling fan of double ball bearing complete with standard down rod, canopy, hanging shackle, Aluminium blades, without regulator, A.C. 230-250 volts including connections with all necessary material complete of approved as required confirming to IS :374/2019 with upto date amendments.				
167	30.1.2	Ceiling Fan (ISI marked)-1200 mm Sweep, with minimum air delivery 210 m ³ /min and service value ≥ 4.00 as per BEE.	Each	50	2292.00	114600
168	30.1.3	Ceiling Fan (ISI marked)-1400 mm Sweep, minimum air delivery 245 m ³ /min and service value ≥ 4.10 as per BEE.	Each	10	2540.00	25400
169	MPPWD ELEC 2024 30.2	Supplying, erection and testing of approved make wall mounting fan oscillating type with base, blades, guard, speed regulator etc. AC 230-250 volts with connections and including raw bolt/anchor hole fastener etc. complete finished and as required.				
170	30.2.1	300 mm sweep	Each	5	2478.00	12390
171	30.2.2	400 mm sweep	Each	5	2810.00	14050
172	MPPWD ELEC 2024 30.3	Supplying, erection and testing of approved make cabin fan oscillating type with base, blades, guard, speed regulator etc. AC 230-250 volts with connections and including raw bolt/anchor hole fastener etc. complete finished and as required.				
173	30.3.1	300 mm sweep	Each	5	2479.00	12395
174	MPPWD ELEC 2024 30.4	Supplying, erection and testing of approved make 'Fresh air fan' AC 230-250 volts with connection and including frame bolt/anchor hole fasteners etc. complete finished and as required.				
175	30.4.3	300 mm sweep bush type	Each	6	1698.00	10188

176	MPPWD ELEC 2024 30.5	Supplying and fixing of deluxe fresh air fan with louvers (ventilating fan) with self-closing louvers of decorative PVC blades mounting square frame of approved make complete with all necessary material as required				
177	30.5.4	300mm RPM	Each	10	2004.00	20040
178	MPPWD ELEC 2024 30.6	Supplying, erecting and testing of approved make exhaust fan heavy duty with mounting frame, blades AC 230-250 complete connection and including, frame bolt/anchor hole fasteners etc. complete finished and as required.				
179	30.6.2	380mm sweep RPM 900 /1400	Each	2	3271.00	6542
181	MPPWD ELEC.2024 30.13	Supply and fixing M.S. down rod 14 SWG (2mm) thick for ceiling fan including threading, painting, making holes etc. as required complete. Note: For new works difference of installed & standard down rod length shall be paid.	Metre	144	114.00	16416
182	MPPWD ELEC 2024 31.3	Supply and fixing Led tube rod comprising of LED tube with non-integral/integral driver, upto 6500K color temp having 40000 burning hrs life with minimum @ L 70, system lumen output should be minimum with system efficacy> 100 lm/Watt. LED driver PF> 0.95 & THD < 20%. The colour rendering index of LED light should be more than 70. Submission LM 79-08/IS16106 (2012), IEC60598, IEC61347i/c connection wire, testing etc. to complete the job.				
183	31.3.4	Tube light LED 1 X 20/22Watt, Integral i/c batten aluminium body, PC diffuser.	Each	25	782.00	19550
184	MPPWD ELEC 2024 31.4	Supply and fixing of recessed mounting type Led light fixture, LED of 1 to 3 Watt each assembled on single MCPCB, having color temp upto 6500K & having 50000 burning hrs life with minimum @ L 70, system lumen output should be minimum with efficacy>100 lm/Watt. LED driver PF> 0.95, THD < 20% & surge protection 4KV. The colour rendering index of LED light should be more than 70. Housing made of CRCA powder coated frame with glare free diffused polycarbonate cover. Submission LM 79-08/IS16106 (2012), IEC60598, IEC61347i/c connection wire, testing etc. to complete the job.				
185	31.4.1	LED luminaire 2' X 2', 36Watt, color temp 3000-6500k as required.	Each	5	3103.00	15515
186	31.4.2	LED luminaire 2' X 2', 42/45Watt, color temp 3000-6500k as required.	Each	5	4215.00	21075
187	MPPWD ELEC 2024 31.5	Supply and fixing of surface mounting type LED light fixture, LED of 1 to 3 Watt each assembled on single MCPCB, having color temp upto 6500K & having 50000 burning hrs. life with minimum @ L 70, system lumen output should be minimum with efficacy>100 lm/Watt. LED driver, PF> 0.95, THD < 20% & surge protection 4KV. The colour rendering index of LED light should be more than 70. Housing made of CRCA powder coated frame with glare free diffused polycarbonate cover. Submission LM 79-08/IS16106 (2012), IEC60598, IEC61347i/c connection wire, testing etc. to complete the job.				
188	MPPWD ELEC 2024 31.5.1	LED luminaire 2' X 2', 36Watt, color temp 3000-6500k as required.	Each	5	4384.00	21920
189	MPPWD ELEC 2024 31.5.2	LED luminaire 2' X 2', 42/45Watt, color temp 3000-6500k as required.	Each	5	4472.00	22360

191	MPPWD ELEC 2024 31.6	Supply and fixing recessed mounting LED down lighter, LED of 1 to 3 Watt each assembled on single MCPCB, having color temp upto 6500K & having 50000 burning hrs. life with minimum @ L 70, system lumen output should be minimum with efficacy>100 lm/Watt. LED driver PF > 0.95, THD < 20% & surge protection 4KV. The colour rendering index of LED light should be more than 70. Housing made of pressure die cast aluminium/CRCA powder coated frame with glare free diffused polycarbonate cover. Submission LM 79-08/S16106 (2012), IEC60598, IEC61347/c connection wire, testing etc. to complete the job..	Each	50	761.00	38050
192	31.6.3	7/8/10 Watt, color temp 3000-6500k as required.	Each	175	1150.00	201250
193	31.6.5	14/15 Watt, color temp 3000-6500k as required.				
194	MPPWD ELEC 2024 31.7	Supply and fixing surface mounting LED down lighter, LED of 1 to 3Watt each assembled on single MCPCB, having color temp upto 6500K & having 50000 burning hrs. life with minimum @ L 70, system lumen output should be minimum with efficacy>100 lm/Watt. LED driver PF > 0.95, THD < 20% & surge protection 4KV. The colour rendering index of LED light should be more than 70. Housing made of pressure die cast aluminium/CRCA powder coated frame with glare free diffused polycarbonate cover. Submission LM 79-08/S16106 (2012), IEC60598, IEC61347/c connection wire, testing etc. to complete the job..	Each	10	726.00	7260
195	31.7.3	7/8/10 Watt, color temp 3000-6500k as required.	Each	20	1400.00	28000
196	31.7.4	14/15 Watt, color temp 3000-6500k as required.				
197	MPPWD ELEC 2024 '37.40	Supply and erection of approved make safe earthing electrode consisting pipe-in-pipe technology as per IS 3043-1987 made of corrosion free G.I. pipes with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for effective and maintenance free earthing in earth pit of minimum bore dia. 150mm size, as mentioned below :				
198	MPPWD ELEC 2024 37.40.2	With 3 metre G.I. pipes having outer pipe dia of 50mm having 80-200 micron galvanizing, Inner pipe dia. of 25mm having 200-250 Micron galvanizing, connection terminal dia. of 12mm in nominal soil with 50 kg (two bag) back filling bentonite compound UJ listed and confirm to relevant International/Indian standards around electrode upto ground level.	Each	6	13140.00	78840
199	MPPWD ELEC 2024 40.1	Supply, installation, testing and commissioning of G.I. floor raceway of mention below sizes 1/3 compartments including all necessary civil works.				
200	40.1.8	150 x 38 x 1.2 mm	Metre	50	1479.00	73950
201	40.1.10	300 x 38 x 1.2 mm	Metre	50	2532.00	126600
203	MPPWD ELEC 2024 40.2	Supply, installation, testing and commissioning of G.I. junction box for duct entry 1/3 compartments junction box (frame & trap) including all necessary civil works.				
204	40.2.1	150 x 150 x 65 - 90 mm	Each	5	1528.00	7640
205	40.2.3	300 x 300 x 65 - 90mm	Each	5	2522.00	12610

207	MPPWD ELEC 2024 40.3	Supply, installation, testing and commissioning of G.I. cross over/junction box for duct entry 1/3 compartments junction box c/w fly overs (frame & trap) including all necessary civil works.					
208	40.3.1	225 x 225 x 65 - 90mm	Each	5	2067.00		10335
209	40.3.2	300 x 300 x 65 - 90mm	Each	5	2747.00		13735
210	MPPWD ELEC 2024 40.5	Supply, installation, testing and commissioning of G.I. coupler for under floor M-Tracks 38mm duct size wherever required.	Each	5	90.00		450
211	MPPWD ELEC 2024 40.6	Supply, installation, testing and commissioning of G.I. fixing bracket wherever required for under floor M-Tracks of duct size as mentioned below :-					
212	40.6.3	150 X 25 mm	Each	5	54.00		270
213	40.6.5	300 X 25 mm	Each	5	93.00		465
214	MPPWD ELEC 2024 40.7	Supply, installation, testing and commissioning of G.I. fixing bracket wherever required for under floor M-Tracks of duct size as mentioned below :-					
215	40.7.3	150 X 38 mm	Each	5	58.00		290
216	40.7.5	300 X 38 mm	Each	5	105.00		525
217	MPPWD ELEC 2024 40.8	Supply, installation, testing and commissioning of G.I. vertical access box for raceway as mentioned below including all necessary civil works.					
218	40.8.1	225 mm width raceway	Each	5	1375.00		6875
219	40.8.2	300 mm width raceway	Each	5	1580.00		7900
220	MPPWD ELEC 2024 41.1	Supply of XLPE insulated power cable (conforming IS-7098 Part-I) 1100 Volt grade, 1 core/2 core/3½ core/4 core ISI marked with alu. stranded /solid conductor					
221	41.1.6	Armoured 3 core					
222	41.1.6.1	6 sq. mm.	Metre	120	112.00		13440
223	41.1.8	3½ core armoured					
224	41.1.8.3	50 sq. mm	Metre	120	373.00		44760
225	MPPWD ELEC 2024 41.4	Supply of XLPE insulated FRLS heavy duty power cable conforming IS-7098 (Part-1) 1988, 1100 Volt grade, 2/3/4/8/10/12 core ISI marked with copper stranded/solid conductor.					
226	41.4.4	Armoured 4 core					
227	41.4.4.4	6 sq. mm.	Metre	50	430.00		21500
228	41.4.4.5	10 sq. mm.	Metre	50	625.00		31250
229	41.4.4.6	16 sq. mm.	Metre	75	909.00		68175
230	41.4.4.7	25 sq. mm.	Metre	100	1455.00		145500
231	41.5	Brass compression gland					
232	MPPWD ELEC 2024 41.5.1	Supplying and fixing heavy duty cable gland for P.V.C. insulated armoured cable with brass washer, rubber ring complete erected with cable and lead connection etc. as per specification complete.					
233	41.5.1.1	Gland size 22mm suitable for cable 2,3,3½ & 4 x upto 6 sq. mm	Each	8	79.00		632
234	41.5.1.2	Gland size 22mm suitable for cable 2/3, 3½, 2/4 x 10 sq. mm or 2x 16 sq. mm	Each	8	97.00		776
235	41.5.1.3	Gland size 28mm for 3/4 x 16 sq. mm	Each	8	138.00		1104
236	41.5.1.4	Gland size 32 mm for 2/3, 3½, 4 x 25 sq. mm OR 2/3, 3½ x 35 sq. mm or 2/3/3½ x 50 sq. mm.	Each	4	158.00		632
237	41.5.1.6	Gland size 45 mm 3/3½ x 120 sq. mm, 3½ x 95 sq. mm, 3 x 150 sq. mm.	Each	4	260.00		1040
238	41.5.1.7	Gland size 50 mm, 3½ x 150 sq. mm, 3 x 185 sq. mm	Each	6	290.00		1740

239	41.5.1.9	Gland size 70 mm, 3 x 240 sq. mm, 3½ x 300 sq. mm	Each	6	605.00	3630
240	MPPWD ELEC 2024 41.6	Supplying and fixing ferrules as per IS - specification suitable for following size of cable for circuit identification including connection as required complete				
241		For conductor size-				
242	41.6.1	2.5 to 6.00 sq. mm	Each	80	3.00	240
243	41.6.2	10.00 sq. mm	Each	10	4.00	40
244	41.6.3	16.00 sq. mm	Each	10	4.00	40
245	41.6.4	25.00 sq. mm	Each	10	6.00	60
246	MPPWD ELEC 2024 41.7	Supplying and fixing crimping type alum. lugs as per I.S.S. specification suitable for following size of cable with alu./copper solid/stranded conductor evenly crimped with high/pressure tool and connected to switch gear/bus/M.C.C.B./M.C.B. etc. as required complete.				
247		For conductor size-				
248	41.7.1	6mm to 16 sq. mm	Each	50	8.00	400
249	41.7.2	25 sq. mm	Each	10	14.00	140
250	41.7.4	50 sq. mm	Each	20	22.00	440
251	MPPWD ELEC 2024 41.8	Supplying & fixing pin terminal lugs as per ISS specification suitable for cable evenly crimped with high pressure tool & connection to switch gear terminal as required complete.				
252	41.8.2	Copper lugs pin type				
253	41.8.2.1	Upto 16 sq. mm conductor size	Each	450	30.00	13500
254	MPPWD ELEC 2024 41.15	Cable laying				
255	41.15.7	Laying of one number armoured / unarmoured power cable 1.1 KV grade of size not exceeding 25 sq. mm in the existing RCC hume/stone ware/G.I. pipe/ DWC Pipe/ surface in existing trench as required.	Metre	395	28.00	11060
256	41.15.8	Laying of one number armoured / unarmoured power cable 1.1 KV grade of size exceeding 25 sq. mm but not exceeding 120 sq. mm. in the existing RCC Hume /Stone ware/G.I. Pipe/ DWC Pipe/ surface in existing trench as required.	Metre	120	35.00	4200
				Electrical Work Total		5006162
				Civil Work & Electrical Work Total		20597179

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 EXECUTIVE ENGINEER
 INDORE SMART CITY DEVELOPMENT LTD.

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 INDORE SMART CITY DEVELOPMENT LTD.

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Executive Engineer
 Indore Smart City Development Ltd.

Eastimed of Under ground Electrifications Duct & Pipe line laying work ,Manholes ,Constructions work.						
S. No	Sor Item No.	Description	Unit	Qty.	Rate	Amount (Rs.)
1	MPPWD 2024 BLD 2.7.	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottom disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be levelled and neatly dressed. (No extra lift is payable if work is done by mechanical means) All kinds of soil 1958				
2	2.7.1	Ordinary soil				
3		Lift 0.00 to 1.50 meter	Cu m	4300	147	632100
4	MPPWD Building SOR, item no. 1.1.1.2 and page no.02	Transportation By Mechanical Transport including loading, unloading and stacking. Lead upto 5 km	Cu. Mt.	4000	207.04	828160
5	MPPWD 2024 BLD 2.27	Supplying and filling in plinth under floors including watering ramming consolidating in layers not exceeding 20cm in depth and dressing complete.				
6	MPPWD 2024 BLD 2.27.1	With hard muram having CBR >12 % at under floors including watering, ramming and compacting (minimum compactio	cum	900	393	353700
7	MPPWD Road & bridge 2025 SOR 4.1	Granular Sub-base with Well Graded Material (CBR>30 or more) (Table:- 400-1 & Table 400-2) Construction of granula	Cu m	1600	1114	1782400
8	MPPWD Road & bridge 2025 SOR 1.3	Supply of following material including all lead and stacking etc. complete.				
9		Crusher stone dust(In Duct)	Cu. Mt.	800	300	240000
10	MPPWD BLD 2024 SOR 4.1	Providing and laying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centering, shuttering and finishing				
11		M-15 (With 20mm nominal size graded stone aggregate)	Cu. Mt.	50	4471	223550
12	MPPWD BLD 2024 SOR 5.9	Centering and shuttering including strutting, propping etc. and removal of form work for :				
13	MPPWD BLD 2024 SOR 5.9.1	Upto plinth: Foundations, footings, bases for columns, plinth beams, curtain walls, columns below plinth.	Sqrm	2000	169	338000
14	MPPWD BLD 2024 SOR 5.1	Centering and shuttering in cluding strutting, propping etc. and removal of formfor:				
15		Upto plinth Foundations, footings, bases of columns, etc. for concrete upto plinth level	Sqrm	114	190	21660
16	5.16.	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire all wastages and overlaps, couplers (overlaps shall be provided as per requirement of IS 13920 for ductile detailing IS 456 RCC Design & SP 34 Reinforcement detailing) etc. complete . (Note:- 1. Spacer bars (chairs) shall be paid separately as shown in the drawing and as per direction of engineer in charge. 2. No extra payment shall be done for overlaps and/or couplers. 3. Couplers shall be conforming to IS code on "Reinforcement Couplers for Mechanical Splices of Bars for Concrete Reinforcement - Specification")				
17	5.16.7	Thermo-Mechanically Treated bars. FE 500 conforming to IS 1786.	KG	10000	77	770000
18	4.2.1	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc. upto floor two level, excluding the cost of centering, shuttering and finishing : With 20mm nominal size graded stone aggregate				
19	4.2.1.2	M-20 - Grade concrete	Cum	200	5177	1035400

Eastimed of Under ground Electrifications Duct & Pipe line laying work ,Manholes ,Constructions work.						
S. No	Sor Item No.	Description	Unit	Qty.	Rate	Amount (Rs.)
20	10.1	Structural steel work in single section fixed with or without connecting plate including cutting, hoisting, fixing in position	KG	1000	91	91000
21	10.2	Structural steel work using M.S. flats, angles, channels I-section, H-section etc. riveted, bolted or welded in built up section	KG	1000	103	103000
22	13.1	12 mm cement plaster of mix :				
23	13.1.1	1:4 (1 cement : 4 sand)	sqm	800	173	138400
24	MPUADD 2021 WATER 7.1	Providing, laying, Jointing & field testing of High Density Polyethylene pipes, (HDPE) conforming to IS 4984/ 14151/ 12786/ 13488 with necessary jointing material like mechanical connector or jointing pipes by heating to the ends of pipes with the help of Teflon coated electric mirror/ heater to the required temperature and then pressing the ends together against each other, to form a monolithic & leak proof joint by thermosetting process. It may be required to be done with Jacks/Hydraulic Jacks/ But fusion machine. (50mm & above fusion jointed & below 50mm mechanical jointed)				
25	7.1.9	160 mm dia	Meter	150	743	111450
26	7.1.14	250 mm dia	Meter	150	1786	267900
27	MPPWD BLD 2024 SOR 9.9 vol 2	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 sand) R.C.C. top slab with Cement Concrete 1:2:4 mix (1 cement : 2 sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:2:4 mix (1 cement : 2 sand : 4 graded stone aggregate 20mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design				
28	MPPWD BLD 2024 SOR 9.9.2.1 vol 2	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight	Each	5	18086	90430
29	MPPWD BLD 2024 SOR 9.9.3.1 vol 2	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (heavy duty) 560 mm internal diameter, total weight	Each	5	21816	109080
30	MP UADD SOR-2021 Road & Bridge works item no. 8.23 , page -64	Providing & placing 85 mm thick Hydraulically pressed M-40 cement concrete heavy duty covers with slots including steel	Sqm	120	144	17280
31	MP UADD SOR-2025 Road & Bridge Volumn 1 9.1	Supply of mineral aggregate like broken stone/crushed stone /stone dust/ moorum at road site including all lead and stacking etc. complete.				
32		Fine sand(In Duct)	Cum	1400	2300	3220000
33	MPPWDROAD SOR 9.9	Providing and placing in position precast reinforced cement concrete U-shape drain as per design and shape, using coarse aggregate and fine aggregate derived from natural sources, Ordinary Portland cement, admixtures as per IS: 456-2000 and standard like India standard, international standards viz. Japanese Industrial Standards (JIS)/ US standard/EU standard/ having of strength not less than M-50. Using Thermo- Mechanically Treated bars. (TMT/TMX) FE 500D or more conforming to IS 1786 reinforcement bar (minimum 95 kg per cum) and capable of carrying a wheel load of min 25 Tones for heavy vehicle movement. Rate includes all cost of material, labor charges at the plant, cost of reinforcement, formwork and lifting accessories, and transportation upto work at the site. making necessary holes of required sizes for carrying through service lines etc., providing steel hooks for lifting, etc. the work to be executed as per the direction of Engineer in-charge.				
34		Pre-Cast U Shape Drain 900x900 mm wall thick.120 mm	RMT	2000	6636	13272000

Eastimed of Under ground Electrifications Duct & Pipe line laying work ,Manholes ,Constructions work.

S. No	Sor Item No.	Description	Unit	Qty.	Rate	Amount (Rs.)
35	MPPWDROAD SOR 9.14	Pre-Cast Box Culvert Providing and placing in position precast cement concrete Box-Culvert as per design and shape, using coarse aggregate and fine aggregate derived from natural sources, ordinary Portland/ admixtures as per design mix IS: 456-2000 and standard like Indian standard international standard viz. Japanese industrial standard (JIS) /US standard/ EU standard having of strength not less than M-50, using Thermo-Mechanically Treated bars,(TMT/TMX) FE 500D or more conforming to IS 1786 reinforcement bar (Minimum reinforcement 95 kg per Cum) and capable of carrying a wheel load of 32.5 Tones with earth cushion 0.20 m to 0.00 m for heavy vehicle movement. Rate includes all cost of material, labor charges at the plant, cost of reinforcement, formwork and lifting accessories, and transportation up to work at the site. Making necessary holes of required sizes for carrying through service lines etc. providing steel hooks for lifting etc. the work to be executed as per the direction of Engineer in- charge.	RMT	200	8654	1730800
36		Box Culvert Size 500x500 mm Th 120mm				
37	MPPWD 2025 SOR 6.14	Providing and laying factory made coloured chamfered edge Cement Concrete paver blocks of required strength, thickness and size/shape, made by table vibratory method using PU mould, laid in required colour and pattern over 50mm thick compacted bed of stone dust, compacting and proper embedding/laying of inter locking paver blocks into the 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 including locking edges with M 15 cement concrete in footpath, light traffic parking etc. complete as per direction of Engineer-in-Charge.	Sqmt	2400	837	2008800
38		100mm thick C.C. paver block of M-35 grade with approved colour, design and pattern.				
					Total	27385110

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ISCDE

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Executive Engineer
Indore Smart City Development Ltd.

Estimate of Road MOS Footpath Paver Block Work.

S.no.	SOR & Non sor Items	Description	Unit	NO	L	W	D	QTY	Rate	Amount	
1	MPPWD Road & bridge 2025 SOR 1.3	Supply of following material including all lead and stacking etc. complete.									
2		Crusher stone dust Providing and laying factory made coloured chamfered edge Cement Concrete paver blocks of required strength, thickness and size/shape, made by table vibratory method using PU mould, laid in required colour and pattern over 50mm thick compacted bed of stone dust, compacting and proper embedding/laying of inter locking paver blocks into the 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 including locking edges with M 15 cement concrete in footpath, light traffic parking etc. complete as per direction of Engineer-in-Charge.	Cu. Mt.					100	300	30000	
3	MPPWD 2025 SOR 6.14										
4		100mm thick C.C. paver block of M-35 grade with approved colour, design and pattern.	Sqmt	1	1000	2.5		2500	837	2092500	
5		Around Garden 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 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).		1	550	4		2200	837	1841400	
6	MPPWD BLD 2024 SOR 4.1										
7			Cu. Mt.	1	1000	0.3	0.45	135			
8	MPPWD BLD 2024 SOR 4.4		Cu. Mt.					6.75			
9	MPPWD BLD 2024 SOR 4.4.1	5 % EXTRA FOR JUNCTIONS Total	Cu. Mt.					142	6097	864250	
10	MPPWD BLD 2024 SOR 4.1	Providing and laying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centering, shuttering and finishing									
11		M-15 (With 20mm nominal size graded stone aggregate)	Cu. Mt.	1	1000	0.3	0.1	30			
12	MPPWD BLD 2024 SOR	M-15 – Grade concrete	Cu. Mt.	1	1000	0.3	0.2	60			
13		Total	Cu. Mt.					90	4471	402390	
14	MPPWD BLD 2024 SOR 4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :									
15	MPPWD BLD 2024 SOR 4.3.1	Upto plinth: Foundations, footings, bases for columns, plinth beams, curtain walls, columns below plinth.	Sqm	1	1000	0	0.3	300	169	50700	
16	MPPWD BLD 2024 SOR 5.1	Providing and laying in position specified grade of reinforced cement concrete (nominal / design mix with 20mm nominal size graded stone aggregate) excluding the cost of centering, shuttering, finishing and									
17	5.1.1	M-20 Grade Concrete	Cu. Mt.	1	1000	0.2	0.3	60	6153	369180	
MPPWD SOR Road 2025 & MPPWD SOR BLD 2024										TOTAL	5650419.75


Executive Engineer
 Indore Smart City Development Ltd.


Sub-Engineer (Civil)
 ISCDL


Quality Control
 Engineer


Sub-Engineer (Civil)
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