

**NON- MOTORIZED TRANSIT (NMT-PHASE 3) FROM DESHBANDHU COMPLEX
(NAUDRA BRIDGE) TO GODHA HOSPITAL (1.1 KM)**

SUMMARY SHEET

Sr No.	Item Description	Amount (In Rs.)
1	CYCLE TRACK	90,19,437.84
2	STORM WATER DRAIN	31,46,252.29
3	UTILITY DUCT	73,34,531.74
4	COMPOUND WALL	16,66,192.50
5	PEDESTARIAN TRACK	1,27,87,828.20
6	WATER SUPPLY	14,34,525.12
7	SIGNAGES, ROAD MARKING & FACILITIES	19,26,267.03
8	LANDSCAPING & HORTICULTURE	37,63,767.60
9	TREE GUARD & BENCHES	20,77,116.43
10	ELECTRICAL WORKS	96,68,843.10
	TOTAL	5,28,24,761.85
	Say Rs	5,28,25,000.00

ESTIMATE OF CYCLE TRACK ON OMTI NALA NMT PHASE 3

S.No	Item No. / SOR Vol	PARTICULARS	Quantity	UNIT	SoR Rate (in Rs)	Reduced rate as per Order	Amount
1	5.17 (iii) Pg no. 53-54 Vol III	Stress Absorbing Membrane (SAM) crack width above 9 mm and cracked area above 50 % (Providing and laying a single coat of a stress absorbing membrane over a cracked road surface, with crack width above 9 mm and cracked area above 50 % after cleaning with a mechanical broom, using modified binder complying with clause 521, sprayed at the rate of 15 kg per 10 sqm and spreading 11.2 mm crushed stone aggregates @ 0.12 cum per 10 sqm, sweeping the surface for uniform spread of aggregates and surface finished to conform to clause 902.)	5500.00	SqM	80.00	72.00	396000.00
	15.8 pg no. 105 Vol III	Providing, fitting and fixing mild steel railing complete as per standard drawing No.BD/1-88 and Technical Specification and as per relevant clauses of section 1900 and 2700.	2200.00	RM	2525.00	2272.50	4999500.00
2	NON SOR	Providing and Laying of PLASTITRAK, Roll-on Surfacing Material :A Solvent Free, High Build, Two pack, Seamless, Tough, skid resistant 1.0-1.5 mm thick red (or as required) based on Gloss and color retaining Acrylic Cross Linking Resin System for Cycle track and similar applications including surface cleaning and cost of all material etc. complete.	3300.00	SqM	1150.00	1035.00	3415500.00
3	8.10 Pg no. 71 Vol III	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface (Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 .The finished surface to be level, uniform and free from streaks and holes and as per relevant clauses of section-800.					
		a. At junction (cycle symbols 2500mm X 2000mm @ cycle box)	45	Nos	900.00	810.00	36450.00
		b. At 50m center to center distance (cycle symbols 1500mm X 1200mm @ cycle box)	65	Nos	900.00	810.00	52488.00
4	8.5 Pg no. 70 Vol III	Direction and Place Identification signs with size more than 0.9 sqm size board. (Providing and erecting direction and place identification retro- reflectorised sign asper IRC :67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 2 mm thick with area exceeding 0.9 sqm supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm (height from crown level of the road and bottom of the sign board shall not be less than 1.5 m.) , 2 Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing including painting of vertical post as per specification.					
		For cycle tracks / only for cycle type signboards .	10	Each	13831.00	12447.90	119499.84
		TOTAL					9019437.84

ESTIMATE FOR STORM WATER DRAIN LEFT BANK ON OMTI NALA NMT PHASE 3

S. No	Reference	Description	Unit	Quantity	Rate	Reduced rate as per Order	Amount (INR)
1		Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.					
a	15.1, ISSR-2012 (Vol I),	Depth upto 1.5 m	Cum	1680.43	129.1	116.19	195248.97
2	Item no. 15.8 (a), ISSR-2012 (Vol I),	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	1570.52	29.00	26.10	40990.50
3	Item no. 2.20, ISSR-2012 (Vol II), Building works, DUAD, MP	Providing and fixing Open timbering in trenches including strutting, shoring and packing cavities where required complete (Measurement to be taken of the face timbered)					
a		Depth not exceeding 1.5m	Sq.m	1335.22	51.00	45.90	61286.45
4	Item no. 2.16, ISSR-2012 (Vol II), Building works, DUAD, MP	Close Timbering: Close timbering/steel in trenches including strutting, shoring and packing cavities (wherever required) complete. (Measurements to be taken of the face area timbered).					
		Depth not exceeding 1.5m	Sq.m	1335.22	99.00	89.10	118967.81
5	Item no.15.18 (ii), ISSR-2012 (Vol I), Water Supply, Sewerage and Tube well works	Class Ab bedding: Providing and laying mechanically mixed cement concrete 20 mm maximum size graded crushed stone including cost of centering & shuttering.- M15	cum	180.19	4321	3888.90	700752.93
6	Item no.13.3 (ii), ISSR-2012 (Vol I),	Providing and laying RCC NP3 socket & spigot pipes with rubber gasket joint including testing of joints (Conforming to IS; 458-1988,ISI marked laying as per IS 783:1985)					
a	Item no.13.3 (ii), ISSR-2012 (Vol I),	300 mm	m	1555.71	827.00	744.30	1157918.14
b		Costing for connecting RCC chambers to Omti nalla at approx. 5 to 6 Locations as directed by JMC engineer with 300 mm dia RCC/HDPE Pipe and Costing for some Nallah Crossings required					
7	Rate Analysis	RCC Chambers					
a		Providing & fixing of ISI marked pre cast reinforced cement concrete chambers for an avg. depth of 1m (0.7 MX 0.7 MX0.9M)	Nos.	75.00	11165.00	10048.50	753637.50
8	Item no.14.9.4, ISSR-2012 (Vol I),	Providing and fixing of ISI marked pre cast reinforced cement concrete manhole cover including frame and transporting at site, cost of all material etc.(560mm dia extra heavy duty)	Nos.	75.00	1740.00	1566.00	117450.00
	INR	Total					3146252.289

ESTIMATE FOR LENGTH UNDERGROUND CABLE DUCT IN DWC HDPE PIPE-SMART ROAD WORKS

S.NO	UADD SOR 2012	DESCRIPTION	QTY	RATE	REVISED REDUCED RATES AS PER ORDER	UNIT	AMOUNT
EARTH WORK							
1	Vol. II 2.6.1	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 disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. All kind of soil					
		Total quantity	2702.40	127.00	114.30	Cum	₹ 3,43,204.80
EARTH FILLING							
2	Vol ii 2.25	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 1.5m.					
		Total quantity	1320.00	59.00	53.10	Cum	₹ 77,880.00
CARRIAGE							
3	Vol. II 1.1	Carriage of Material by Mechanical transport including loading unloading & stacking etc.					
a		For 1 km lead	25.00	73.00	65.70	Cum	₹ 1,825.00
b		For 2 km lead	125.00	81.00	72.90	Cum	₹ 10,125.00
c		For 3 km lead	150.00	88.00	79.20	Cum	₹ 13,200.00
d		For 4 km lead	75.00	95.00	85.50	Cum	₹ 7,125.00
e		For 5 km lead	85.00	102.00	91.80	Cum	₹ 8,670.00
f		Beyond 5 Kms and upto 10 Kms (add for every Km)					
		For 6 km lead	150.00	108.00	97.20	Cum	₹ 16,200.00
		For 7 km lead	170.00	114.00	102.60	Cum	₹ 19,380.00
		For 8 km lead	200.00	120.00	108.00	Cum	₹ 24,000.00
PCC							
4	Vol ii 4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering All work up to plinth.					
	4.1.2	Cement concrete grade M-15 (Nominal Mix) with 20 mm maximum size of stone aggregate.					
		Total quantity	180.16	4154.00	3738.60	Cum	₹ 7,48,384.64
SAND FILLING							
5	Vol ii 2.27	Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete.					
		Total quantity	1739.10	1201.00	1080.90	Cum	₹ 20,88,663.06
DWC HDPE PIPE Providing& Laying							
6	Vol iv .17.4	Supplying and installing Double wall corrugated pipes (DWC) of HDPE (IS 14930 Part-II marked) for cable laid under ground with necessary connecting sockets/ couplings,tees of same material and at required depth upto 90cm. below road/ground surface,including excavation, back filling with excavated material with ramming and making the surface good.					
a	17.4.10	160 mm dia Electrical Duct	4000.00	407.00	366.30	Meter	₹ 16,28,000.00

f	17.4.5	110 mm out side dia	100.00	309.00	278.10	Meter	₹ 30,900.00
g	17.4.4	90.00mm outside dia.	100.00	254.00	228.60	Meter	₹ 25,400.00
i	17.4.2	63 mm out side dia	300.00	210.00	189.00	Meter	₹ 63,000.00
j	17.4.1	50 mm outside dia	300.00	207.00	186.30	Meter	₹ 62,100.00
RCC							
7	Vol. II 5.31	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centring, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-25 grade reinforced cement concrete by using 410 kg. of cement per cum of concrete. All work up to floor 2 level.					
Total quantity			140.80	5245	4720.50	Cum	₹ 7,38,496.00
Precast Reinforced Cover for manhole							
8	Vol ii 5.10	Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centring, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate)					
			3.96	6524	5871.60	cum	₹ 25,835.04
Reinforcement							
9	Vol ii 5.20	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire upto floor two level including all wastage etc. complete.					
	5.20.6	Thermo mechanically treated Bars	15923.60	60	54.00	Kg	₹ 9,55,416.00
Shuttering							
10	Vol ii 20.1	Centring and shuttering including strutting, propping etc.and removal of form for : Shuttering For Manhole-OFC					
a	20.1.1	Foundations, footings, bases of columns, etc. For mass concrete.	38.40	138.00	124.20	Sqm	₹ 5,299.20
b	20.1.2	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc	432.00	216.00	194.40	Sqm	₹ 93,312.00
c	20.1.2	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc	720.00	216.00	194.40	Sqm	₹ 1,55,520.00
Plaster							
11	Vol ii 13.7	12 mm cement plaster finished with a floating coat of neat cement of mix :					
	13.7.3	1:5 (1 cement: 5 fine sand) OFC Duct Man Hole					
Total quantity			48.00	127.00	114.30	Sqm	₹ 6,096.00

Dewatering							
12	Vol. III 2.13	Dewatering of water caused by springs, tides or river seepage, broken water mains or drains or well or the like.	3000.00	51.00	45.90	KL	₹ 1,53,000.00
Providing & Fixing Steel Work							
13	Vol. II 10.25	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	500.00	67.00	60.30	KG	₹ 33,500.00
TOTAL							₹ 73,34,531.74

ESTIMATE FOR COMPUND WALL ON OMTI NALA NMT PHASE 3

S.No	SOR Reference No.	Item	QTY	Unit	Rate	Reduced rate as per Order	Total
1	UADD SOR 2.6 Vol -II	Earth work in excavation by mechanical means (hydraulic Excavator)/manual Means over areas (exceeding 30 cm in depth . 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m , dsposed earth to be levelled and neatly dressed					
	2.6.1	All Kinds Of soil	125	Cum	127	114.3	14287.5
2	UADD SOR 4.1 Vol -II	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering. All work up to Plinth Level					
	4.1.5	Cement concrete grade M-15 (Nominal Mix) with 40 mm maximum size of stone aggregate	125	Cum	4094	3684.6	460575
3	NON-SOR	Providing and fixing Precast prestressd (PSPC) concrete poles & panels of M-25 grade with all fixtures for the construction of Boundary Wall. The poles having size 180 x 180 mm for fixing PSPC panels with 4 nos. Prestressed Wire of high tensile steel 4mm diameter Panels of 2000-2500 mm long x 600mm wide x 75 mm thick pre-stressed with 6 nos. of steel wire of 4mm dia to be inserted in grooves of poles. The poles to be fixed in PCC 1:3:6 with boulders in layers in pit size of 600X750X900mm below Ground Level. Cement Mortar ratio 1: 3 at joints of poles and panels item includes excavation of pits in all type of soil, its concreting. Fixing of precast poles & panels in line & level etc. complete as directd by Engineer in charge. For poles 2400 mm above GL and 1000 mm below GL					
			1220	sqm	1085	976.5	1191330
Total							1666192.5

ESTIMATE FOR PEDESTRIAN TRACK ON OMTI NALA NMT PHASE 3

S.No	Item No. / SOR Vol	PARTICULARS	Quantity	UNIT	Rate (in Rs)	Reduced rate as per Order	Amount
1	2.6.1 Vol II	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 disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.					
			1342.00	cum	127.00	114.30	153390.60
3	2.27 Vol II	Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete.					
	2.27.1	Crusher Stone Dust					
			396.00	cum	628.00	565.20	223819.20
	4.1.6 Vol II	Cement concrete grade M- 10 (Nominal Mix) with 40 mm maximum size of stone aggregate					
			396.00	cum	3528.00	3175.20	1257379.20
5	5.1 Vol II	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :					
	5.1.1	Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate.					
			396.00	cum	4728.00	4255.20	1685059.20
6	NON SOR	Providing and laying 100 mm thick natural cobble stone block size 200mm x 200mm . Complete as per the direction of engineer incharge including locking edges and top surface use as runway for pedestrain whearever required with cement mortar 1:3 and pigment of required shade of stone block including cost of labour material etc . All complete.					
			3200.00				
			3200.00	sqm	1250.00	1125.00	3600000.00
	NON SOR	Providing and laying matt finished vitrified tile of size 600x600x16mm having water absorption less than 0.5% and conforming to IS: 15622 of approved make in all colours and shades in out door floors such as footpath, court yard multi models etc., laid on 20mm thick base of cement mortar 1:4 (1cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as direction of Engineer-in-Charge.					
			2400.00	sqm	1636.00	1472.40	3533760.00

7	5.2 Vol II	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire upto floor two level including all wastage etc. complete.					
	5.20.1 Vol II	TMT Bars					
			31086.00	kgs	60.00	54.00	1678644.00
8	20.1 Vol II	Centering and shuttering including strutting, propping etc.and removal of form for :					
	20.1.1	Foundations, footings, bases of columns, etc. For mass concrete.					
			5280.00	sqm	138.00	124.20	655776.00
TOTAL							12787828.20

ESTIMATE FOR SIGNAGES, MARKING & FACILITIES OMTI NALA NMT PHASE 3

S.No	Item No. / SOR Vol	PARTICULARS	Quantity	UNIT	Rate (in Rs)	Reduced rate as per Order	Amount
1	Item 8.10 Vol III	Road Marking					
		Solid Lines in White Colour					
		Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface (Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 .The finished surface to be level, uniform and free from streaks and holes and as per relevant clauses of section-800.					
		Solid Lines in White Colour	440.00				
		Brocken Lines in White Colour	220.00				
		Stop Lines in White Colour	110.00				
		Applying Zebra Crossing	300.00				
			1070.00	900.00	Sqm	810.00	866700.00
2	Item 8.8 Vol III	Painting lines, dashes, arrows etc					
		Painting lines, dashes, arrows etc on roads in two coats on new work with ready mixed road marking paint conforming to IS:164 on bituminous surface, including cleaning the surface of all dirt, dust and other foreign matter, demarcation at site and traffic control as per relevant clauses of section-800 & I.R.C.-67 including cost of paint etc. complete.	550.00	70.00	Sqm	63.00	34650.00
4	8.12 Vol III	Road Delineators (Supplying and installation of delineators (road way indicators, hazard markers, object markers), 80-100 cm high above ground level, painted black and white in 15 cm wide stripes, fitted with 80 x 100 mm rectangular or 75mm dia circular reflectorised panels at the top, buried or pressed into the ground and confirming toIRC-79 and the drawings as per relevant clauses of section-800 of specifications.	45.00	292.00	each	262.80	11826.00
5	8.20 Vol III	Road Markers/Road Stud with Lense Reflector (Providing and fixing of road stud 100x 100 mm, dia cast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS 873 part 4:1973)	45.00	292.00	each	262.80	11826.00
1	8.3 pg no. 69 Vol III	Providing and fixing of retroreflectorised cautionary, mandatory and informatory sign as per IRC :67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm (height from crown level of the road and bottom of the sign boardshall not be less than 1.5 m.) firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing including painting of vertical post as per specification.					
	8.3 (i) pg no. 69 Vol III	90 cm equilateral triangle	9.00	3715.00	each	3343.50	30091.50
	8.3 (iv) pg no. 69 Vol III	80 cm x 60 cm rectangular	15.00	4537.00	each	4083.30	61249.50

2	16.59 CPWD SOR VOL 2	Manufacturing, supplying and fixing retro reflective sign boards made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity encapsulated type heat activated retro reflective sheeting conforming to type - IV of ASTM-D 4956-01 in blue and silver white or other colour combination including subject matter, message (bilingual), symbols and borders etc. as per IRC ; 67:2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class -2 of ASTM-D-4956-01 and fixing the same with suitable sized aluminium alloy rivets @ 20 cm c/c to back support frame of M.S. angle iron of size 25x25x3 mm along with theft resistant measures, mounted and fixed with 2 Nos. M.S. angles of size 35x35x5 mm to a vertical post made up to M.S. Tee section ISMT 50x50x6 mm welded with base plate of size 100x100x5 mm at the bottom end and including making holes in pipes, angles flats, providing & fixing M.S. message plate of required size, steel work to be painted with two or more coats of synthetic enamel paint of required shade and of approved brand & manufacture over priming coat of zinc chromate yellow primer (vertical MS-Tee support to be painted in black and white colours). Backside of aluminium sheet to be painted with two or more coats of epoxy paint over and including appropriate priming coat including all leads and lifts etc. complete as per drawing, specification and direction of Engineer--in-charge.					
	16.59.1	Mandatory/ Regulatory sign boards of 900 mm diametre with support length of 3750 mm	42.00	4786.35	Nos	4307.72	180924.03
7		Seating Bench- Provision along footpath minimum spacing 200m c/c, or as directed by Engineer In-charge. Supply and install Seating of 1.75m L x 0.6m W manufactured of M-30 grade concrete using vibro compaction process and suitably reinforced for long use, treated with special anti-corrosive, water proof coating so as to make the surface glossy and water proof. To accomodate 3-4 persons. It shall be placed on footpath in a way that the pedestrians pass-by without disturbing the user. Installation as per the direction of Engineer in charge, complete incl. all consumables , TandP and Labours required for the job.Detail technical specification	45.00	12000.00	Nos	10800.00	486000.00
9	4.8 UADD SOR VOL II	Precasting and placing in position 125 mm dia Bollards 600 mm high of required shape including providing M.S. Pipe Sleeve 50 mm dia 300 mm long in the Bollard and M.S. Pipes 40 mm dia and 450 mm long with 150x150x6mm M.S. plate welded at bottom and embedded 150mm in cement concrete grade M-10 (Nominal Mix with 20 mm maximum size of stone aggregate) including necessary excavation of size 250x 250x 450mm deep for the same in bitumen/ concrete pavement at specified spacing.	300.00	900.00	Nos	810.00	243000.00
		TOTAL					1926267.03

DETAIL ESTIMATE OF LANDSCAPING

S.No	Item No. / SOR Vol	PARTICULARS	Quantity	UNIT	Rate (in Rs)	Reduced rate as per Order	Amount
1	23.1 MP PWD SOR	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 trcnchcd 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)	2640.00	cum	207.00	186.30	491832.00
2	23.2 MP PWD SOR	Supplying and stacking of good earth at site including royalty if any and carnage (earth measured in stacks will be reduced by 20% for payment)	660.00	cum	568.00	511.20	337392.00
3	23.3 MP PWD SOR	Supplying and stacking sludge at site including royalty and carriage (sludge measured in stacks will be reduced b 8% for payment)	660.00	cum	715.00	643.50	424710.00
4	23.4 MP PWD SOR	Supplying and stackmg at site dump manure from approved source, including carriage (manure measured in stacks will be reduced by 8% for payment):	660.00	cum	816.00	734.40	484704.00
5	23.5 MP PWD SOR	Rough dressing the trenched ground including breaking clods.	4400.00	100 sqm	495.00	445.50	19602.00
6	23.6 MP PWD SOR	Uprooting weeds from the trenched area after 10 to 15 days of its flooding with water including disposal of uprooted vegetation.	4400.00	100 sqm	168.00	151.20	6652.80
7	23.7 MP PWD SOR	Fine dressing the ground	4400.00	100 sqm	126.00	113.40	4989.60
8	23.8 MP PWD SOR	Spreading of sludge, dump manure and / or good earth in required thickness as per direction of Officer-in-charge (Cost of sludge, dump manure and /or good earth to be paid separately).	660.00	cum	18.00	16.20	10692.00

9	23.9 MP PWD SOR	Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge					
		Adding the quantity of earth and sludge manure	1980.00	cum	12.00	10.80	21384.00
10	23.1 MP PWD SOR	Grassing with selected type of 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 good earth shall be paid for separately):					
	23.10.3	In rows 5 cm apart in both directions.	4400.00	100 sqm	4002.00	3601.80	158479.20
13	23.13 MP PWD SOR	Preparation of beds for hedging and shrubbery 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)	352.00	cum	75.00	67.50	23760.00
14	23.14	Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20%: 1 part of stacked ' volume of manure after reduction by 8%) flooding with water, dressing including removal of rubbish and surplus earth. if any with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately):					
	23.14.2	Holes 60 cm dia, and 60 cm deep.	300.00	each	68.00	61.20	18360.00
	23.14.3	holes 45 cm dia, and 45 cm deep.	600.00	each	21.00	18.90	11340.00

15	23.15 MP PWD SOR	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). or equivalent					
	23.15.1	Any of one from Plameriya alba, fycus benjameena. Malkikeya champa. Begnonia plumaric pudoca Plants (1.8 mtrs to 2.10 mtrs height. or equivalent	250.00	each	645.00	580.50	145125.00
	23.15.2	Any of one from Lantana VAR Red, Lantana Blue White, Hemelia Mini. lantana varicated, ticoma Redicens, Spi Oala, Golden Dunanta.(height 0.3 m to 0.45m)or equivalent	2000.00	each	33.00	29.70	59400.00
	23.15.3	Any of one from Hibiscus Vice Rai, GuI Phinia. Bamboo Varicated. Chandani Vencated, Hamilia Pattern, Bouganvella. Canna Red/Yellow, Taqwamonasia. (height 0.3 m to 0.45 m)or equivalent	750.00	each	54.00	48.60	36450.00
	23.15.4	Any Of one from Spathodia. Silver Oak, Thuja. Golden Bottle Brush, Exora Red (height 0.45 m to 0.60 m) or equivalent	500.00	each	319.00	287.10	143550.00
	23.15.5	Any Of one from Glerodendron, Allamamala New, Allamanda Bail, Thima Bouganvella or equivalent	300.00	each	96.00	86.40	25920.00
	23.15.6	Any of one from Climetics, Venentora, (height 0.3 m to 0.45 m) or equivalent	450.00	each	73.00	65.70	29565.00
	23.15.7	Foxtail Palm (1.80mtrs to 2.10mtrs Height) or equivalent	100.00	each	1784.00	1605.60	160560.00
	23.15.9	Ficus Varicated (1.80mtrs to 2.10 mtrs height) or equivalent	100.00	each	994.00	894.60	89460.00
	23.15.10	Casia Biflora (0.45mtrs to 0.60 mtrs height) or equivalent	100.00	each	129.00	116.10	11610.00

20	23.22 MP PWD SOR	Providing and fixing M.S. tree guard 45 cm square In plan, height 1.20 metre ground level and 0.40 metre below ground level. The vertical members shall consist of four nos. angle iron of Size 25x25x3mm , 1.8 m long, one at each corner and 8 nos. flat iron of size 25x3 mm, 1.2 m 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 refillingwith two or more coats of synthetic enamel paint of approved brand and manufacture Over a coat Of primer, complete in all respect.	600.00	each	1585.00	1426.50	855900.00
21	23.23 MP PWD SOR	Providing and fixing M.S. tree guard 50 cm square in plan, height 1.40 metre above ground 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 he 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 synthetic enamel paint of approved brand and manufacture over a coat of primer, complete in all respect.	0.00	each	2494.00	2244.60	
22	23.24	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 meter and lift upto 1.5 m complete as per direction Of Officer-in-charge .	900.00	cum	153.00	137.70	123930.00

23	23.25 MP PWD SOR	Providing Circular Cement Concrete pots of specificd size, cast with cement concrete of nominal mix 1:2:4 (1 cement: 2 sand; 4 graded stone aggregate 6 mm nominal size), reinforced With 7 Nos (3 nos. horizontal and 4 nos. vertical "U" shape) M.S. wires of 3.5 mm dia as per design, including required form work, finishing with cement punning on exposed Surface, Curing for specified period and stacking in required rows and height, all complete as per direction of Officer-in-charge .					
	23.25.1	Top inside dia 35 cm, outer bottom dia 25 cm, total height 35 cm with wall thickness of 25.4 mm.	500.00	each	152.00	136.80	68400.00

TOTAL							3763767.60
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ESTIMATE OF TREE GUARD & BENCHES

S.No	Item No. / SOR Vol II	PARTICULARS	Quantity	UNI T	Rate (in Rs)	Reduced rate as per Order	Amount
TREE GUARD							
1	2.6.1	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 disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.					
			216.00	cum	127.00	114.30	24688.80
3	2.27	Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete.					
			43.20	cum	628.00	565.20	24416.64
4	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level.					
	4.1.2	Cement concrete grade M-15 (Nominal Mix) with 20 mm maximum size of stone aggregate					
			43.20	cum	4154.00	3738.60	161507.52
5	6.2	Brick work with well burnt chimney bricks in bulls patent trench kiln manufactured by ghol process, crushing strength not less than 40kg /sqcm and water absorption not more than 15% in foundation and plinth.					
			77.76	cum	4232.00	3808.80	296172.29
6	8.9	Brick work with chimney brick of class designation 40 in superstructure above plinth level upto floor 2 level including the cost of scaffolding in :					
			99.36	cum	4220.00	3798.00	377369.28
7	8.9	Stone tile (polished) work for wall lining over 12mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and cement slurry @ 3.3 kg/sqm including pointing in white cement complete.					
			691.20	sqm	1272.00	1144.80	791285.76

6	8.2	Providing and fixing 16mm thick gang saw cut mirror polished pre moulded and prepolished) machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations C45of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edge to give high gloss finish etc. complete at alllevels.					
	8.2.8.1	Granite	129.6	sqm	2394.00	2154.60	279236.16
		Sub Total					1675440.29
		BENCHES					
1	2.6.1	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 disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.					
			30.00	cum	127.00	114.30	3429.00
3	2.27	Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete.					
			10.00	cum	628.00	565.20	5652.00
4	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level.					
	4.1.2	Cement concrete grade M-15 (Nominal Mix) with 20 mm maximum size of stone aggregate					
			10.00	cum	4154.00	3738.60	37386.00
5	6.24	BRICK WORK Brick work with machine moulded modular bricks of class designation 40 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12mm deep complete from ground level up to plinth level in cement mortar 1:6 (1 cement : 6 coarse sand).	12.42	cum	4021	3618.90	44946.74

6	8.2	Providing and fixing 16mm thick gang saw cut mirror polished premoulded and prepolished) machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations C45of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edge to give high gloss finish etc. complete at allevels.					
	8.2.8.1	Granite	144	sqm	2394.00	2154.60	310262.40
		Sub Total					401676.14
TOTAL							2077116.43

DETAIL ESTIMATE OF ELECTRICAL WORKS

Sr. No.	Code	Code	Description of Items	Unit	Qty	Rate	Reduced Rate as per UADD Orders	Amount
1			Panel, MCCB and MCB					
2	UADD SOR 2012	9.15	Supplying, fixing, testing & commissioning wall / floor mounted LT Panel primer coated with two coat of enamel paint & provided with required gasket for dust / vermin proof with degree of protection IP42 suitable for 415V 3 phase, 50 Hz, 4 wire system fabricated out of CRCA sheet upto 2 mm thick (1.6 mm for doors) with frame work of angle iron / channel / bolted type construction duly compartmentalised for incomer, bus section, outgoing, cable alleys & CT,PT Ampere Meter, Volt Meter, selector switches, Frequency Meter, phase indicating lamps, energy Meter complete including cost of busbar supports, detachable cable gland plates, 2 earthing terminals, internal wiring & fixing of separately supplied MCBs, MCCBs, panel mounted Changeover switch / SFUs, etc. as required but excluding cost of busbar strips, Ampere Meter, Volt Meter, Selector switch as per approved design & specification	Kg	4	116.00	104.40	417.60
3	UADD SOR 2012	9.16	Supplying and fixing of LT Panel accessories of approved make in existing LT Panel including connections etc.as required as per specification				0.00	0.00
4		9.16.1	Digital Ampere Meter with CTs with selector	Set	2	2,354.00	2,118.60	4,237.20
5		9.16.2	Digital Volt Meter with selector switch & HRC fuse	Set	2	2,530.00	2,277.00	4,554.00
6		9.16.5	Aluminium bus bar strips with PVC sleeves	Kg	4	209.00	188.10	752.40
7		9.16.6	LED lamps	Each	6	242.00	217.80	1,306.80
8	UADD SOR 2012	10.23	Labour rate for point wiring a Light / Fan / Twin control light / Socket out let on seperate board / Call bell Point in (open) surface rigid steel conduit system.	Each	310	93.00	83.70	25,947.00
10	UADD SOR 2012	8.00	Supplying of ISI Marked and approved make of Moulded Case Circuit Breaker (MCCB) suitable for 3 phase,3 pole, 50 Hz, 415 Volts, AC supply with respective interrupting capacity (KA) at 415 Volts cited against their range standard conforming to IS - 8828					
11		8.1	MCCB with Breaking Capacity 25 KA at 415 V					
12		8.1.1	Current Rating -25 to100 Amps & 70% -100% adjustable	Each	2	4,939.00	4,445.10	8,890.20
13		8.5	Supplying of ISI Marked and accepted standard of Miniature Circuit Breaker (MCB) of 'C' series suitable for 240/415 Volts, 50 Cycle, 10 kA Value AC supply confirming to IS : 8828 : 1996, IEC : 60898 :2002 but without enclosures					
14		8.5.4	FOR TRIPLE POLE (TP)					
15		8.5.4.3	For 40 Amps. Rating only.	Each	6	1,145.00	1,030.50	6,183.00
16	UADD SOR 2012	8.16.2	Fixing of MCB / MCCB Isolator TP / TPN / FP in sheet steel enclosure as required as per accepted practice, including mounting on busbar and cable connection etc. complete.	Each	2	20.00	18.00	36.00

17		8.17	Labour charges for fixing sheet steel enclosure, MCB DB surface mounting type, as per accepted practice on 25x5mm flat iron clamps duly embedded in wall, cable connection etc. complete.					
18		8.17.1	8.5 (1) to 8.5 (4)	Each	8	94.00	84.60	676.80
19			Earthing:					
20	UADD SOR 2012	11.34	Providing and fixing earthing arrangement with 16mm dia 2.5 meter long galvanized iron or steel rod electrode including packing of charcoal powder and salt as per specification watering pipe 19mm dia G.I. Connection etc. complete with refilling the pit as required, but excluding the excavation of earth pit.	Each	300	667.00	600.30	1,80,090.00
21		11.37	Providing and laying earth continuity conductor including fixing with					
22		11.37.B	G.I. Or Steel Earth Continuity Conductor :-					
23		11.37.B.1	06 Sq mm	Mtrs	3500	7.00	6.30	22,050.00
24		11.40	Supplying and erecting earth pit of minnum bore dia 150 mm size, approved make safe earthing electrode consisting pipe in pipe tecnologie as per IS 3043-1987 made of corrosion free GI pipes having outer pipe dia of 50 mm having 80-200 micron galvanising, inner pipe dia of 25 mm having 20-250 micron galavinsing, connection teriminal dia of 12 mm with constent OHMIC value sourrounded by highly conductiv compund with high charge disipation sutible for effective and maintence free earthing					
25		11.40.2	with 3 mtr. Pipe in normal soil with 50 kg (two bag) back filling compound	Each	2	10,800.00	9,720.00	19,440.00
26			Cables, HDPE Pipe and JB's					
27	UADD SOR 2012	13.10	Supplying and erection of water tight terminal box of 14 SWG M.S. Sheet 4mm thick box of required size to erect the suitable kit kat / MCB / Switch with Top & bottom folded fitted with rubber ring to make it water tight with pole clamp made from 40x3mm M.S. flat iron with 2 Nos. Nut and Bolts duly painted with 2 coat of Red Oxide paint and 2 coat of Aluminium silver paint erected with cable gland but excluding the cost of the Kit Kat / MCB / Switch complete as per specification:					
28		13.10.1	20x15x15Cms.	Each	40	286.00	257.40	10,296.00
29	UADD SOR 2012	14.1	Supply of XLPE Insulated power cable (conforming IS-7098) 1100 Volt grade/Heavy duty power cable conforming to IS 1554-1100 Volts grade , 2 core /3½ core/4 coreISI MARKED with Alu. Stranded /solid conductor					
		14.1.2	ARMOURED 2 Core					
		14.1.2.3	6 Sq.mm.(XLPE)	Mtrs	200	138.00	124.20	24,840.00
		14.1.4	ARMOURED 3 Core					
		14.1.4.1	6 Sq.mm.(XLPE)	Mtrs	200	158.00	142.20	28,440.00
30		14.1.8	ARMOURED 4 CORE					
		14.1.8.2	10 Sq.mm.(XLPE)	Mtrs	800	183.00	164.70	1,31,760.00
31		14.1.8.3	16 Sq.mm.(XLPE)	Mtrs	1000	229.00	206.10	2,06,100.00
		14.1.8.4	25 Sq.mm.(XLPE)	Mtrs	1000	281.00	252.90	2,52,900.00