DEVELOPMENT OF WALKWAY WITH OTHER UTILITIES AROUND RANITAL LAKE, JABALPUR

S.NO	DESCRIPTION	AMOUNT
1	LAKE SIDE WALKWAY	₹ 1,69,12,739.64
2	STORM WATER DRAIN	₹ 96,49,612.80
3	SEWER LINE	₹ 49,68,597.02
4	HOTRICULTURE	₹ 4,45,661.40
5	LIGHTING & ELECTRICAL WORKS	₹ 49,82,605.00
	GRAND TOTAL	₹ 3,19,76,610.86
	SAY RS	₹ 3,20,00,000.00
	IN WORDS THREE CRORES TWENTY LACS ONLY	

		Development of Walkway with other utilities aroun	d Ranita	ıl Lake, Jal	oalpur	
		Detail Estimate of Iakeside Wall				
S.No.	UADD SOR ITEM NO	Descriptions of Item	Rate	Revised Reduced Rates as per Order	Unit	Amount in Rs.
1	3.1, Vol III	Excavation				
		Excavation for roadway in soil including loading in truck for carrying of cut earth to embankment site with all lifts and lead upto 1000 metres and as per relevant clauses of section-300				
		Ranital lake full perimeter Road				
		For Road	98.00	88.20	Cum	₹ 8,53,776.00
2	3.11, Vol III	Sub grade				
		Construction of Embankment/Sub grade/ earth shoulders, as per clause 305 & its sub-clauses, Where required but with approved materials/soil like morrum CBR value not less then 7% i/c all lead & lifts i/c excavation, cost of watering, mpaction and maintenance of surface during construction to ensure shedding & preventing ponding of water (clause 305.3.6) shaping & dressing (clause 305.3.7), finishing etc. complete but excluding scarifying existing granular/bituminous road surface vide clause 305.6.				
		Ranital lake full perimeter Road				
		For Road Total	272.00	244.80	cum	₹ 23,69,664.00
4		Stone Soling	2,2,00	211.00		- 20,00,001.00
	UADD SOR Vol iii 4.3/P-31	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening/ binding materials to fill up the interstices of coarse aggregate, watering and compacting to the required density and as per relevant clauses of section-400.				
	4.3(ii)	Grading- II				
	a)	Using Screening Crushable type				
		Total	857.00	771.30	cum	₹ 27,14,976.00
		Ci D i				
	UADD SOR Vol iii 9.2/P-75	Stone Dust Supply as per clause 514 including all lead and stacking etc. complete.(Rolling & vibrating compaction up to 90-95%)				
	9.2(i)	Crusher stone dust (clause 507.2.3)	198.00	178.20	cum	₹ 1,56,816.00
	UADD SOR Vol iii 4.1 P-	Construction of granular sub-base by providing coarse graded material, spreading in uniform layers with on prepared surface, mixing by mix in place method at OMC, and compacting with vibratory roller to achieve the desired density, complete in all respect and as per relevant clauses of section-400.				
	(ii)	for grading- II Material	614.00	552.60	cum	₹ 9,72,576.00
6	UADD SOR Vol iii 6.1/P-60	Construction of dry lean cement concrete Sub-base over a prepared sub-gradewith coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table of MORTH Specifications 600-1, cement content not to be less than 200 kg/cum, optimum moisture content to be				
		ndetermined 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 paver with electronic sensor/mechanical paver, compacting with 8-10 tonnes vibratory roller, finishing and curing and as per relevant clauses of section-603.				
		not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with paver with electronic sensor/mechanical paver, compacting with 8-10 tonnes vibratory roller, finishing and curing and as per relevant clauses of section-603.				
		not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with paver with electronic sensor/mechanical paver, compacting with 8-10 tonnes vibratory roller, finishing and curing and as per relevant clauses of section-603. For Road	2745.00	2442.50	-	\$ 29.95.400.00
		not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with paver with electronic sensor/mechanical paver, compacting with 8-10 tonnes vibratory roller, finishing and curing and as per relevant clauses of section-603.	2715.00	2443.50	cum	₹ 32,25,420.00

		GRAND TOTAL	52000.00	4/320.00	171 1	₹ 1,69,12,739.64
			Kg 52800.00	47520.00	MT	₹ 1,92,783.36
			T/			
		Chairs basket for Dowels 4 nos 10 mm dia bars @4.5 m c/c in length				
		Ties For dowel bar 8mm dia bars 2 times of dowels bars				
6.12.2	2	Tor steel tie rod				
						1,11, 10120
6.12.1	L	Mild Steel dowel bars	47850.00	43065.00	MT	₹ 5,07,248.28
		Dowels 32mm dia bars 450mm in length@300mmc/c	Kg			
6.13	2/ 1 '-01					
	ol iii 2/P-61					
_	SOR	bar and tie rod etc. required as per design.				
_	ADD	Add extra in Item No 6.3 & 6.5 above for the cost of stell in dowel				
		Total quantity	4698.00	4228.20	sqm	₹ 59,19,480.00
		For Road				
		tte rod etc.				
		specifications complete but excluding cost fo steel in dowel ber & tie rod etc.				
		as per IRC-15 2002 and as per relevant clauses of section-602 of				
		compound, finishing to lines and grades as per approved drawings				
		strip, placing of dowel bar,tie rod admixtures as approved, curing				
		separation membrane, sealant primer, joint sealant, debonding				
		contraction, expansion, and longitudinal joints, joint filler,				
		including provision of				
		screed and plate vibrator and finished in a continuous operation				
		spreading the concrete by shovels, rakes compacted using needle,				
		transported to site, laid with a fixed form or slip form paver with				
		mixed in a batching and mixing plant as per approved mix design,				
_		cement maximum size of coarse aggregate not exceeding 25 mm,				
_		Construction of dowel jointed, plain cement concrete pavement in M-30 grade concrete over a prepared sub base with 43 grade				

Development of Walkway with other utilities around

		ESTIMATE OF SEWEI	R WATER DE	RAIN
S No.	COP	Descriptions of Item		Rate
1	2.9.1,	Excavation work in foundation trenches or drains		
	Vol II	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		
		soils as directed, within a lead of 50m.		
		Total quantity	2240.00	202.00
2	2.27.1	Supplying and filling in plinth under floors		
	Vol II	including, watering, ramming consolidating and		
		dressing complete.		
		Crusher Stone Dust		
		Total quantity	224.00	628.00
3	4.1.2 Vol	Cement Concrete M-15 (Duct)		
	II			
		Providing and laying Plain / Reinorced cement		
		concrete (mixed in concrete mixture) RCC		
		Grade		
		M 15 with 20mm maximum size of aggregate.		
		Total quantity	224.00	4154.00
_				
4		Providing and laying in position specified grade		
	II	of reinforced cement concrete excluding the cost		
		of centering, shuttering, finishing and		
		reinforcement - All work up to plinth level :		
		Cement concrete grade M-20 (Nominal Mix) with		
		20 mm maximum size of stone aggregate.		
		Along Road		
		Total quantity	648.00	4728.00

5	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 centering, 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)		
		Along Road		
		Total quantity	288.00	6524.00
6	.20.6 Vol	Reinforcement for R.C.C. work including		
		straightening, cutting, bending, placing in position		
		and binding all complete.		
	5.20.6	Thermo-Mechanically Treated bars		
			58780.80	60.00
7	20.1.1	Form work for Drain walls		
	Vol II			
		Centering and shuttering including strutting,		
		propping etc.and removal of form for :		
	20.1.1	Foundations footings become of columns at a Fee		
	20.1.1	Foundations, footings, bases of columns, etc. For		
		mass concrete. Along Road		
			5280	138.00
		Total quantity	3200	130.00

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Ranital Lake, Jabalpur

	Unit	Amount
181.80	cum	407232.00
565.20	cum	126604.80
3738.60	cum	837446.40
4255.20	cum	2757369.60

5871.60	cum	1691020.80
54.00	Kg	3174163.20
104.00		(====(00
124.20	Sqm	655776.00 ₹ 96,49,612.80
		1 90,49,012.00

Development of Walkway with other utilities around Ranital Lake, Jabalpur

		ESTIMATE FOR SEWER LINE	ALONG R	ANITAI.	LAKE		
		ESTIMATE FOR SEWER EINE	ALONG R	MINITAL	Revised		
S.No.	UADD SOR ITEM NO	Descriptions of Item	Quantity	Rate	Reduced Rates as per Order	Unit	Amount in Rs.
		Excavation for Drain pipe					
1	UADD SOR Vol (i) 15.1/P-151	Earth work in Excavation for pipe trench in all kinds of soil and WBM in areas including dressing, watering and ramming and disposal of Excavated earth lead upto 50 meters and lift upto 1.5m, disposal earth to be leveled, neatly dressed.					
		For RCC NP2 pipes (for sewer drainage) LEFT SIDE For RCC NP2 pipes (for sewer drainage) RIGHT	773.50	129.10	116.19	cum	₹ 89,872.97
		SIDE	3675.00	129.10	116.19	cum	₹ 4,26,998.25
2	UADD SOR Vol (i) 13.1/P-138	REINFORCED CEMENT CONCRETE PIPES Providing, Laying and jointing non-pressure (NP2) 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)					
			2450.00	1049.00	944.10	Per m	₹ 23,13,045.00
3	UADD SOR Vol (i) 15.9/P-151	Filling with moorum for pipe bedding or over the pipe including supply of moorum					
			326.00	625.00	562.50	cum	₹ 1,83,375.00
4	UADD SOR Vol (ii) 11.43/P-135	Dry stone pitching 20 to 22.5cm thick including supply of stones and preparing surface complete.	2080.00	783.00	704.70	Sq m	₹ 14,65,776.00
5	UADD SOR Vol (i) 11.43/P-135	Construction of circular type of manhole 1500 mm internal dia. at bottom, 560 mm dia at top, total depth of manhole 2650mm in brick masonry with 1:5 cement mortar (1 cement: 5 fine sand), 12 mm thick Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 30 cm thick foundation in Cement concrete grade M-7.5 (Nominal Mix) with stone aggregate 40 mm nominal size, RCC Cement Concrete grade M-20 (Nominal Mix) with 20mm Nominal size on top slab and making channel in cement concrete grade M-15 (Nominal Mix) with stone aggregate 20 mm nominal size neatly finished, curing fixing of ISI marked reinforced concrete heavy duty cover (including transportation of cover) complete. as per standard design (Drawing No. 15)		100000		P. C.	3 0 0 733 40
		RIGHT SIDE	22.00	19683.00	17714.70	EACH	₹ 3,89,723.40
6	UADD SOR Vol (i) 11.43/P-135	Construction of circular type manhole 900 mm internal dia. at bottom, 560 mm dia at top total depth of manhole 900 mm in brick masonry with 1:5 cement mortar (1 cement : 5 fine sand), 12 mm thick Cement plaster 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement. 22.5 cm foundation in cement concrete grade M-10 (Nominal Mix) with stone aggregate 40mm nominal size, RCC top slab cement concrete M-20 (Nominal Mix) with stone aggregate 20mm nominal size and making channel in cement concrete grade M-15 (Nominal Mix) with stone aggregate 20mm nominal size neatly finished, curing fixing of ISI marked heavy duty SFRC cover etc. complete as per standard design.					
		LEFT SIDE	16.00	6931.00	6237.90	EACH	₹ 99,806.40

GRAND TOTAL ₹ 49,68,597.02

SeriolNO	Reff.
	UADD SOR
	2012
2	19.2 P-204
	UADD SOR
3	19.2/P-204
	19.4
4	19.4.3
	19.4.3
	17.0
7	
	19.9
8	
	19.13
11	
13	19.14.2
	Reff. No
	10411 P-49
	(S2)
15	
16	10389 P-58
10	(S3)
	(00)

	DSR 2016 ,Hotriculture 5.19/p149 (S4)			
17				
	DSR 2016			
	,Hotriculture			
	5.2/P-319 (S8)			
21				
24	DSR 2016			
	,Hotriculture			
	10079/P-19			
	(S11)			

B.O.Q FOR FOR RANITAL LANDSCAPING (HOTRICULT	URE PAR	T2)
Description of item	Qty	Unit
Supplying and stacking of good earth at site including royalty and		
carriage up to 1 km (earth measured in stacks will be reduced by 20% for		
payment).		
	432.00	Cu m
Supplying and stacking at site dump manure from approved		
source, including carriage up to 1 km (manure measured in stacks will be		
reduced by 8% for payment)		
Screened through sieve of I.S. designation 4.75mm	288.00	Cu m
Spreading of sludge, dump manure or/and good earth in required		
thickness (Cost of sludge, dump manure or/ and good earth to be paid		
separately	288.00	cum
Mixing earth and sludge or manure in proportion specified or as directed		
by the enginer(SAME QTY AS 19.8)		
	288.00	cum
HEDGING		
Preparation of beds for hedging and shrubbery by excavating 60cm deep		
and trenching the excavated base to a further depth of 30cm, 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, leveling etc. Including stacking and disposal of materials		
1		
declared unserviceable and surplus earth by spreading and leveling as		
directed, within a lead of 50m lift up to 1.5 m complete (cost of sludge,		
manure or extra earth to be paid for separately).		
	144.00	Cu m
Holes 60 cm dia, and 60 cm deep.	1000.00	Each
Supply and stacking of Shrubs &trees		
Description with botanical name		
Complex and stacking of plant Tocome and district (1.50 75		
Supply and stacking of plant Tecoma gaudichaudi of height 60-75 cm.with		
5-6 branches in p.bag of size 25 cmTecoma guadichaudi/Yellow bells		
	120.00	Each
Supply and stacking of plant Murraya exotica of height 45-60 cm. inpoly		
bags of size 15 cmMurraya exotica/Jasmine, Kamini		
	300.00	Each

Providing and Displaying Euphorbia milli hybrid variety plant with multi		
branch, full bloom, with fresh and healthy well developed having 30 to 45		
cm ht. in 35 cm Cement Pots as per direction of the officer-in-		
charge.Euphorbia milii/Crown of Thorns		
	400.00	Each
Providing and Displaying Acalypha green well developed, fresh & healthy		
with good foliage,		
multi branch 30 to 45 cm ht. in 20 cm size Earthen Pot/ Plastic Pot bushy		
plant as per direction		
of the officer-in-charge.		
Acalypha green	100.00	Each
Providing of Raphis palm plant, having ht. 75 cm to 90 cm with 12 to 15		
equal suckers, well developed, full of fresh & healthy leaves from bottom		
to top in 25 cm size Earthen pot / Plastic pot.Raphis excelsa/Raphis Palm	80.00	Each

TOTAL HOTRICULTURE COST

RATE Reduced Rate AMOUNT			
184.00 165.60 52992.00 15.00 13.50 4320.00 102.00 91.80 29376.00 62.00 55.80 8928.00 24.00 21.60 24000.00 50.00 6000.00	RATE	Reduced Rate	AMOUNT
184.00 165.60 52992.00 15.00 13.50 4320.00 102.00 91.80 29376.00 62.00 55.80 8928.00 24.00 21.60 24000.00 50.00 6000.00			
184.00 165.60 52992.00 15.00 13.50 4320.00 102.00 91.80 29376.00 62.00 55.80 8928.00 24.00 21.60 24000.00 50.00 6000.00			
184.00 165.60 52992.00 15.00 13.50 4320.00 102.00 91.80 29376.00 62.00 55.80 8928.00 24.00 21.60 24000.00 50.00 6000.00			
15.00 13.50 4320.00 102.00 91.80 29376.00 62.00 55.80 8928.00 24.00 21.60 24000.00 50.00 6000.00	184.00	165.60	30470.40
15.00 13.50 4320.00 102.00 91.80 29376.00 62.00 55.80 8928.00 24.00 21.60 24000.00 50.00 6000.00			
15.00 13.50 4320.00 102.00 91.80 29376.00 62.00 55.80 8928.00 24.00 21.60 24000.00 50.00 6000.00			
15.00 13.50 4320.00 102.00 91.80 29376.00 62.00 55.80 8928.00 24.00 21.60 24000.00 50.00 6000.00	104.00	165.60	F2002 00
102.00 91.80 29376.00 62.00 55.80 8928.00 24.00 21.60 24000.00 50.00 6000.00	184.00	165.60	52992.00
102.00 91.80 29376.00 62.00 55.80 8928.00 24.00 21.60 24000.00 50.00 6000.00			
62.00 55.80 8928.00 24.00 21.60 24000.00 50.00 6000.00	15.00	13.50	4320.00
62.00 55.80 8928.00 24.00 21.60 24000.00 50.00 6000.00			
62.00 55.80 8928.00 24.00 21.60 24000.00 50.00 6000.00	102.00	01.00	2025(00
24.00 21.60 24000.00 50.00 6000.00	102.00	91.80	29376.00
24.00 21.60 24000.00 50.00 6000.00			
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50.00 6000.00			
	24.00	21.60	24000.00
15.00 4500.00	50.00		6000.00
15.00 4500.00			
	15.00		4500.00

615.00	246000.00
30.75	3075.00
450.00	36000.00
	445661.40

Development of Walkway with other utilities around

ESTIMATE FOR LIGHTING AND ELECTRICAL W			
S.No	Ref.No. Vol. IV	Description of Items	
1	4.3	CIRCUIT WIRING IN EXISTING CONDUIT / PVC CASING CAPPING Supplying and drawing single core PVC insulated cable FR with copper multi strand conductor ISI marked in existing rigid conduit in surface or concealed as per specification.	
	4.3.1	2.5 Sq mm cable	
	3	3 X 1.5 sq mm	Meter
2	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 :-	
	8.5.1	SINGLE POLE (SP)	
	1	0.5 Amp to 5 Amp Rating Make : Havells/Legrand/L&T	Each
3	14	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 core ISI MARKED with Alu. Stranded /solid conductor	
	14.1.8	ARMOURED 4 CORE	
	3	16 Sq.mm.(XLPE) Make: Havells/Polycab/Finolex	Meter
4	14.12	Laying of underground cable armoured./ unarmoured as per	
	1	2/3/4 Core cable upto 16 Sq.mm	Meter
5	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.	
	1	50.00mm outside dia.	Meter

6	14.8	LUGS:Supplying and fixing cramping type Alum. lugs as per I.S.S. Specification suitable for following size of cable with Alu. /Copper solid/stranded conductor evenly cramped with high/pressure tool and connected to switch gear/Bus/M.C.C.B./ M.C.B. etc. as required complete. For Conductor Size-	
	1	6mm to 16 Sq.mm Make : Dowells/Hex/Jainsons/Comet	Each
7	11.34	Providing and fixing earthling 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
8	NoN Sor	Supply of 7mtr high hot dip galvanised PU PAINTED Conical poles with 151mm bottom dia & 75 mm top dia made up of 3mm thk. HT sheet alongwith base plate of size 250X250X16mm thk. It's also includes Decorative single arm bracket 1500 mm long Made out of MS pipe as per IS 1239 having shaft cap dia of 101.6 mm and bracket arm made of 48.3 mm dia x 3.2mm thick MS Pipe with nut bolt arrangement for mounting on conical pole top. The height of door should be 1000mm from the bottom of pole and the lenght of door cover should be 500mm. It's also includes 4Nos of M20X700mm high 'J' type EN 8 grade foundation bolts along with template	Nos
9	13.19	Erection of steel tubular or rail pole strut in cement concrete 1:3:6 (1cement:3coarse sand: 6 aggregate 40mm nominal size) foundation including excavation and refilling and secured with holding clamps, nuts and bolts, etc. as required.	Each
10	NoN Sor	Supplying of suspension type decorative street light fitting of 80 watt LED , made of spun aluminium housing, polycarbonate diffuser protector with IP 65 protection for optical compartment , with LED CCT 5700K.	Each
11	NoN Sor	Supply and Installation of outdoor stand mounted feeder pillar with 32A TPN MCB incomer, single dial time switch, 25A TP contactor for the automatic switching of luminaries. Panel Suitable for I/c 3.5x25Sqr mm & O/g 4x16Sqr mm Cable.	Each

Ranital Lake, Jabalpur

RANITAL LAKE

RANITAI	LAKE		
Qty	Rate	Reduced Rate as per UADD Orders	Amount
900.00	96.00	86.40	77760.00
900.00	90.00	00.40	77700.00
90.00	243.00	218.70	19683.00
1760.00	229.00	206.10	362736.00
1760.00	20.00	18.00	31680.00
1760.00	207.00	186.30	327888.00

90.00	5.00	4.50	405.00
90.00	667.00	600.30	54027.00
00.00	24405		220275000
90.00	24485		2203650.00
90.00	2526	2273.40	204606.00
90.00	18113.00		1630170.00
20.00			
2	35000.00		70000.00
		GRAND TOTAL	4982605.00