

**Suryabinayak Municipality
Office of Municipal Executive**

Katunje, Bhaktapur

Bagmati Province

Project- Preparation of Detailed Project Report of Construction of Stadium of Suryabinayak

Location- Suryabinayak Municipality , Bhaktapur

SUMMARY OF COST			
S.N.	Description	Estimated Amount	Remarks
A	Civil Works	642,744,048.48	92.98%
B	Water Supply and Sanitation Works	7,515,392.30	1.09%
C	Electrical Works	11,434,164.60	1.65%
D	Landscaping works	29,593,118.77	4.28%
E	Sub Total (E)=A+B+C+D	691,286,724.15	
F	Provisional Sum		
P-1	Preparation of as built Architectural,Structure Sanitary & Electrical drawing as per instruction all complete.	75,000.00	
P-2	(a) Insurance premium for the work, plant and materials damage for contract work for all risk including Riot,Strike, Damage,Malicious damage and Terrorism for contract work of 1 years + 1 year Maintenance period..(b) Insurance premium for the insurance of	8,357,399.30	
P-3	Carrying out diferrent laboratory tests of construction material like cement, rod, bricks, sand, aggregate, filling materials, concrete cubes etc. during construction work as per specification and direction.	87,464.00	
P-4	Provide, erect and maintain project site notice boards (plane CGI sheet of 1mx1m mount with 1/2" black sq black iron pipe.on its back with 2 number of 1.5" sq pipe post of 2 m above GL) as per insruction of Site engineer and specification all complete.	10,000.00	
	Sub Total Of Provisional Sum (F)=P1+P2+P3+P4+P5+P6	8,529,863.30	
G	<i>3% Contingency (G)=3% of E</i>	20,738,601.72	
H	<i>13% VAT (H)=13% of E</i>	89,867,274.13	
I	<i>Total (I)=E+F+G+H</i>	810,422,463.30	
J	<i>Physical Contingencies (J)=10% of E</i>	69,128,672.41	
K	<i>Price Escalation (K)=10% of E</i>	69,128,672.41	
L	<i>Grand Total =</i>	948,679,808.13	

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Project- Preparation of Detailed Project Report of Construction of Stadium of Suryabinayak
Location- Suryabinayak Municipality , Bhaktapur

Summary of Quantity and Cost

S.N.	Description	Rate	Main Building Block A Quantity		Main Building Block B Quantity		Main Building Block C Quantity		Boundary Wall		Retaining wall Structure		Guard House		Gate		Ticket Counter		Covered Hall		Unit	Overall		Rem
			Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount		Quantity	Amount	
I.	Civil work																							
A.	Earth Works:-																							
1.00	Site Clearance Work before and after completion of work including cutting & uprooting shrubs, thick herbs & vegetables, top soil cutting, levelling & removal of waste, transporting to the specified place as per instruction by site engineer all complete before and after construction.	41.40	1,500	62,100	2,500	103,500	290	12,006	-	-	7,040	291,456							300	12,420	sqm	11,630	481,482	
2.00	Earth Work in Excavation in foundation (soft-clay & silty soil) for lift up to 1.5 m. including timbering, pumping out water from the foundation trench, stacking the soil 0.90 m. minimum from the edge of foundation, filling the excavated clean & grub of soil in foundation trench & disposing the excess soil upto a lead of 10.00 m as per instruction & specification complete work (Machine 70% manual 30%)	80.88	4,228	341,924	6,872	555,806	858	69,395	30,875	2,497,171	7,988	646,037	29	2,334	53	4,315	29	2,334	144	11,661	cum	51,075	4,130,977	
3.00	Earth Back Filling in foundation trenches & Floor in 15 c.m. layers with water sprinkling & manual compaction as per specification and instruction all complete.	258.75	1,691	437,551	2,749	711,250	343	88,803	57,371	14,844,862	2,396	620,037	12	2,987	16	4,141	12	2,987	58	14,922	cum	64,648	16,727,542	
4.00	Plain Cement Concrete (1:3:6.) M10 in foundation & wall with cement (NS standard OPC), sand and graded aggregate (crushed or stone ballast) including mixing, laying, finishing to approved level, line and dimensions and curing as per instruction & specification complete work.	14,385.47	106	1,520,381	172	2,471,418	21	308,568	-	-	449	6,453,322	1.4	20,197			1.40	20,197	9.13	131,373	cum	759	10,925,457	
5.00	1:1.5:3 RCC work in super structure slab, beams, column and lintels etc with transportation upto 30 m	17,225.67		-					12	210,670	6,997	120,522,845			37	642,690				-	Cum	7,046	121,376,205	
6.00	1st Class Chimney Bhatta (Terai) Brickwork in cement (Nepal Standard OPC Cement) sand mortar in 1:4 sub-structure, super-structure (Ground Floor) with 1st class bricks in perfect line and level including wetting the bricks, packing the joints and curing the work in all types and thickness of walls, column etc. as per instruction & specification complete work	15,811.91	296	4,676,783	447	7,071,288	75	1,192,757	-	-	-	-	4	61,861			4	61,861	17	268,619	Cum	843	13,333,169	
7.00	1st Class Chimney Bhatta (Terai) Brickwork in cement (Nepal Standard OPC Cement) sand mortar in 1:4 super-structure (First Floor, Second Floor & Third Floor) with 1st class bricks in perfect line and level including wetting the bricks, packing the joints and curing the work in all types and thickness of walls, column etc. as per instruction & specification complete work	16,344.93	516	8,429,657	673	10,997,836	119	1,949,680	142	2,325,704	-	-	11	173,793	24	385,577	11	173,793	7	120,380	Cum	1,502	24,556,420	
8.00	Stone soiling work with levelling	5,252.46	282	1,480,335	458	2,406,322	57	300,441	6	30,097	449	2,356,254	7	34,438	8	43,595	7	34,438	24	127,912	Cum	1,297	6,813,830	
9.00	P.C.C. M15 (1:2:4) for P.C.C. Work in foundation, walls, beams, slabs, sill, stitches, lintels etc. with cement (NS standard OPC) sand and graded aggregate (crushed or stone ballast) including mixing concrete, lead upto 30m, laying, compacting the concrete mix with vibrator machine, finishing to approved level lines and dimensions and curing as per instruction & specification complete work.	15,901.68	-	-					5	72,989	-	-			4	65,992			11	181,565	cum	20	320,546	
11.00	P.C.C. M20 (1:1:2) for R.C.C. Work (Used Machine) in Sub-structure and Super structure, columns, beams, decks, slabs, etc. with cement (NS standard OPC cement) sand and graded aggregate (crushed or stone blast) including mixing with Water and admixtures, lead upto 30m, compacting the concrete mix with vibrator machine, laying, finishing to approved level lines and dimensions and curing as per instruction & specification complete work.	20,668.80	2,178	45,014,325	3,167	65,461,669	514	10,626,817	-	-	-	-	11	230,751			11	230,751	30	615,120	Cum	5,911	122,179,435	
12.00	TMT Reinforcement bar (Fe 500) for RCC Works, tested including straightening, cleaning, cutting, bending and fixing in position with 20 B.G. annealed binding wire as per drawing, specifications and instructions by site-engineer all complete work.	150.13	384,104	57,665,569	507,415	76,178,259	80,447	12,077,469	2,068	310,460	597,667	89,727,689	1,418	212,885	3,852	578,301	1,418	212,885	4,123	619,036	Kg	1,582,512	237,582,553	

Estimated By:

Checked By:

Recommended By:

Approved By:

Project- Preparation of Detailed Project Report of Construction of Stadium of Suryabinayak
Location- Suryabinayak Municipality , Bhaktapur

Summary of Quantity and Cost

S.N.	Description	Rate	Main Building Block A Quantity		Main Building Block B Quantity		Main Building Block C Quantity		Boundary Wall		Retaining wall Structure		Guard House		Gate		Ticket Counter		Covered Hall		Unit	Overall		Rem
18.00	Formwork/ Centering & Shuttering with 18mm thick Plywood for all type of concrete works necessary propping (MS Iron Pipe), scaffolding, staging, supporting inclusive wedging and cutting holes for utilization work till the support is fully unyielding as per instructions & specifications complete work .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SQm	-	-	-
	Slabs	913.06	3,726	3,402,153	4,898	4,472,611	646	589,878	-	-	-	16	14,976	-	-	-	16	14,976	11	10,046	SQm	9,314	8,504,641	-
	Columns	675.22	1,139	769,044	1,298	876,549	732	494,069	68	45,699	12,261	8,279,058	27	17,988	38	25,584	27	17,988	98	66,482	SQm	15,687	10,592,461	-
	Beams	1,294.77	3,666	4,746,982	4,995	6,467,919	1,144	1,481,240	45	58,549	-	-	34	43,419	131	169,356	34	43,419	164	212,767	SQm	10,213	13,223,650	-
20.00	Aluminium sliding door with naturally anodized colour section (78*38*1.3)mm (40*45*1.5) mm and 5 mm glass	5,292.81	-	-	-	-	-	-	-	-	-	-	9	46,563	-	-	9	46,563	66	348,849	Sqm	84	441,976	-
21.00	Casement door of aluminium section in naturally anodized colour section size (100*38*1.3)mm and 5 mm glass	5,870.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	59,176	Sqm	10	59,176	-
	Supplying and fixing sandwich puff brick wall panel (width 950mm) & 100mm thick coloured both side	5,307.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	382	2,028,788	Sqm	382	2,028,788	-
23.00	12.5mm thick cement sand plaster (1:3) on ceiling & Stair of good finish including cleaning, scrubbing, wetting the surface before plaster work and curing the same as per specifications & instructions all complete work	554.64	2,003	1,110,678	2,048	1,136,014	286	158,627	-	-	-	-	14	7,800	-	-	14	7,800	-	-	Sqm	4,365	2,420,918	-
24.00	12.5 mm thick cement sand plaster(1:4) on Brick Masonry walls (both sides) of good finish including racking the joints, wetting the surface & curing the work as per specifications & direction all complete.	465.06	8,121	3,776,767	13,871	6,450,717	1,787	831,248	1,129	524,958	-	-	120	55,580	81	37,837	120	55,580	199	92,344	Sqm	25,427	11,825,033	-
25.00	3mm thick cement punning work all complete as per specification & instruction of site engineer	320.19	2,003	641,187	2,048	655,813	286	91,574	-	-	-	-	14	4,503	-	-	14	4,503	240	76,960	Sqm	4,605	1,474,540	-
26.00	38 mm th. Plain Cement Concrete (1:2:4) Screeding for flooring all complete as per specifications and instruction.	794.53	3,284	2,609,618	4,096	3,254,713	766	608,610	-	-	-	-	14	11,173	-	-	14	11,173	231	183,594	Sqm	8,406	6,678,880	-
27.00	Supplying and laying of good quality marbal in cement sand motar (1:2) ratio with approved colour on floors, skirting and wall s all complete.	5,190.86	199	1,033,729	256	1,329,234	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Sqm	455	2,362,963	-
28.00	Supplying and fixing seasoned Sal wood Chaukhat (75mmx100mm) size as per drawings, specifications and instructions of site engineers all complete	324,282.29	7	2,170,178	13	4,115,629	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Cum	19	6,285,807	-
29.00	38mm thick Dila Shutter for Sal wood	17,101.79	324	5,545,341	549	9,383,838	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Sqm	873	14,929,179	-
30.00	Porcellian glazed/non-glazed tile on toilet , bath & other rooms' wall and floors with cement sand mortar 1:4 of approved colour & quality including cleaning & polishing all complete as per specification & instruction of site engineer(Kazarai, Soman or equi)	3,634.47	124	449,439	124	449,439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Sqm	247	898,877	-
31.00	Channel Gate	6,189.85	207	1,279,071	30	184,210	-	-	-	-	-	-	-	-	31	193,495	-	-	4	25,069	Sqm	272	1,681,845	-
32.00	Providing & applying 2mm thick wall putty work on wall, ceiling, column, beam in all surfaces of the buildings etc including cost all materials and accessories,all complete as per specification, drawings and instruction of engineer.(J.K. White putty, Birla or equivalent).	290.44	8,121	2,358,673	13,871	4,028,612	1,787	519,132	-	-	-	-	-	-	-	-	-	-	-	-	Sqm	23,779	6,906,417	-
33.00	2 Coat Plastic Emulsion Painting in inner part of building over primer to give uniform colouring after rendering the surface clean & moist as per specification and instruction all complete work.	276.04	7,005	1,933,763	13,061	3,605,378	1,400	386,456	-	-	-	-	49	13,416	-	-	49	13,416	-	-	sqm	21,564	5,952,428	-
34.00	Providing and applying two coats water proof cement paint painting work in plastered surface as per specifications and as approved by the Engineer.	199.52	1,116	222,596	810	161,541	387	77,294	1,009	201,375	-	-	43	8,619	-	-	43	8,619	120	23,993	Sqm	3,529	704,038	-
35.00	Supply and installation of Gypsum Board 12mm thick in false ceiling with hooks, connectors strips, etc. all complete as per drawings, specifications and instruction of site-engineer.	866.58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	18,389	Sqm	21	18,389	-
46.00	Enamel Paints of approved color in 2 coats over 1 coat of primer in properly sanded surface for high class finish as per specification and instruction all complete work.	384.36	324	124,631	549	210,900	-	-	-	-	-	-	9	3,381	-	-	9	3,381	-	-	sqm	891	342,294	-
	Supplying, making, fixing of 91mm thick exterior with full height of partition with fibre cement board	5,210.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32	164,825	sqm	32	164,825	-
51.00	Supplying and fitting of iron truss works with red oxide paint as per approved drawing ,specification and instruction of site engineer.	202.63	846	171,439	-	-	-	-	9,757	1,976,988	-	-	-	-	-	-	-	-	14,746	2,987,981	kg	25,349	5,136,408	-

Estimated By:

Checked By:

Recommended By:

Approved By:

Project- Preparation of Detailed Project Report of Construction of Stadium of Suryabinayak
Location- Suryabinayak Municipality , Bhaktapur

Summary of Quantity and Cost

S.N.	Description	Rate	Main Building Block A Quantity		Main Building Block B Quantity		Main Building Block C Quantity		Boundary Wall		Retaining wall Structure		Guard House		Gate		Ticket Counter		Covered Hall		Unit	Overall		Rem
52.00	26 gauge heavy CGI sheet fixing on roof including all accessories	1,145.04	228	260,697		-			-	-	-	-							291	333,154	Sqm	519	593,851	
53.00	Cgl Ridge	899.36		-					-	-	-	-							25	22,790	rm	25	22,790	
54.00	Chainlink metal fencing with 10 guage wire (3"*3" size) specific with straching as per drawing and specification	565.80							1,255	710,342											sqm	1,255	710,342	
56.00	Providing, fixing and installation of Expansion Joint for Horizontal Slab Area	24,282.25	65	1,568,633	89	2,151,407															rm	153	3,720,041	
61.00	Stainless steel railing work with 2" dia handrail and vertical post with 3 layers 1" dia horizontal pipes all complete	4,407	302	1,332,689	238	1,047,994	49	215,945	48	209,775										-	Rm	637	2,806,403	
62.00	Iron Post at road side for blocking ball to go outside boundary wall	203							531	107,597											kg	531	107,597	
63.00	Nylon Net	500							150	75,000											sqm	150	75,000	
64.00	Score Board LED 4m*3m	20,000							12	240,000											sqm	12	240,000	
65.00	Advertisement Board LED 50m*3m	20,000							150	3,000,000											sqm	150	3,000,000	
i.	Total Of Civil Works			155,135,931		215,939,865		32,080,009		27,442,236		228,896,698		966,665		2,150,883		966,665		8,758,215			672,337,167	

Estimated By:

Checked By:

Recommended By:

Approved By:

Suryabinayak Municipality
Office of Municipal Executive
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 Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block A

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
A	CIVIL WORK						
	EARTHWORK						
1	Site clearance before and after completion of work including desposing the remaining construction materials & plants & making the site in working condition all complete as per drawing and specification	m ²	1	100.0	15.000		1500.0
	Total						1500.0
2	Earthwork in excavation in soft clay and silty soil including 10 m lead and 1.5m lift	m ³					
a	Footings						
	Isolated footing(F1)		1	99.94	14.10	3.0	4227.5
	Total						4227.5
3	Earth Work in Filling	m ³					
	Filling work within foundation area			40% of foundation work			1691.0
	Total						1691.0
4	Stone soling work with levelling	m ³					
a	Footings						
	Isolated footing(F1)		1	99.9	14.10	0.200	281.8
	Total	m ³					281.8
5	1st Class Chimney Bhatta (Terai) Brickwork in cement (Nepal Standard OPC Cement) sand mortar in 1:4 sub-structure, super -structure (Ground Floor) with 1 st class bricks in perfect line and level including wetting the bricks, packing the joints and curing the work in all types and thickness of walls, column etc. as per instruction & specification	m ³					
a	Below Plinth Level						
	Grid 1-1		1	12.1	0.23	2.4	6.7
	Grid 2-2		1	12.1	0.23	2.4	6.7
	Grid 3-3		1	12.1	0.23	2.4	6.7
	Grid 4-4		1	12.1	0.23	2.4	6.7
	Grid 5-5		1	12.1	0.23	2.4	6.7
	Grid 6-6		1	12.1	0.23	2.4	6.7
	Grid 7-7		1	12.1	0.23	2.4	6.7
	Grid 8-8		1	12.1	0.23	2.4	6.7
	Grid 9-9		1	12.1	0.23	2.4	6.7
	Grid 10-10		1	12.1	0.23	2.4	6.7
	Grid 11-11		1	12.1	0.23	2.4	6.7
	Grid 12-12		1	12.1	0.23	2.4	6.7
	Grid 13-13		1	12.1	0.23	2.4	6.7
	Grid 14-14		1	12.1	0.23	2.4	6.7
	Grid 15-15		1	12.1	0.23	2.4	6.7
	Grid 16-16		1	12.1	0.23	2.4	6.7
	Grid 17-17		1	12.1	0.23	2.4	6.7
	Grid 18-18		1	12.1	0.23	2.4	6.7

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Detailed Quantity Estimate

Block: Stadium Block A

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Grid 19-19		1	12.1	0.23	2.4	6.7
	Grid 20-20		1	12.1	0.23	2.4	6.7
	Grid A-A		1	97.9	0.23	2.4	54.1
	Grid B-B		1	97.9	0.23	2.4	54.1
	Grid C-C		1	97.9	0.23	2.4	54.1
	Total						295.8
6	1st Class Chimney Bhatta (Terai) Brickwork in cement (Nepal Standard OPC Cement) sand mortar in 1:4 , super -structure (First Floor,Second Floor & Third Floor) with 1 st class bricks in perfect line and level including wetting the bricks, packing the joints and curing the work in all types and thickness of walls, column etc. as per instruction & specification complete work	m ³					
	Ground Floor						
	Grid 1-1		1	12.1	0.25	3.45	10.4
	Grid 2-2		1	6.3	0.25	3.45	5.4
	Grid 6-6		1	6.3	0.25	3.45	5.4
	Grid 7-7		1	6.3	0.25	3.45	5.4
	Grid 10-10		1	6.3	0.25	3.45	5.4
	Grid 11-11		1	6.3	0.25	3.45	5.4
	Grid 14-14		1	6.3	0.25	3.45	5.4
	Grid 15-15		1	6.3	0.25	3.45	5.4
	Grid 19-19		1	6.3	0.25	3.45	5.4
	Grid 20-20		1	12.1	0.25	3.45	10.4
	Grid A-A		1	97.9	0.25	3.45	84.5
	Grid B-B		1	16.5	0.25	3.45	14.2
	Grid C-C		1	97.9	0.25	3.45	84.5
	First Floor						
	Grid 1-1		1	12.1	0.25	2.45	7.4
	Grid 2-2		1	7.0	0.25	2.45	4.3
	Grid 6-6		1	7.0	0.25	2.45	4.3
	Grid 7-7		1	7.0	0.25	2.45	4.3
	Grid 10-10		1	6.3	0.25	2.45	3.9
	Grid 11-11		1	6.3	0.25	2.45	3.9
	Grid 12-12		1	6.3	0.25	2.45	3.9
	Grid 14-14		1	7.0	0.25	2.45	4.3
	Grid 15-15		1	7.0	0.25	2.45	4.3
	Grid 19-19		1	7.0	0.25	2.45	4.3
	Grid 20-20		1	12.1	0.25	2.45	7.4
	Grid B-B		1	97.0	0.25	2.45	59.4
	Grid C-C		1	97.9	0.25	2.45	60.0
	X-axis(internal)		1	22.6	0.250	3.00	16.9
	Y-axis(internal)		1	9.2	0.250	3.00	6.9

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Detailed Quantity Estimate

Block: Stadium Block A

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
b	Column						
	Below Plinth						
	C1		60	0.525	0.525	1.7	28.1
	Ground Floor						
	C1		60	0.525	0.525	3.5	57.1
	First Floor						
	C1		40	0.525	0.525	2.5	27.0
	Second Floor						
	C1		20	0.525	0.525	2.5	13.5
	Third Floor						
	C1		2	0.525	0.525	2.5	1.4
	Total of column						127.0
c	Beam						
	Foundation Plinth Beam						
	Grid 1-1		1	12.1	0.35	0.550	2.33
	Grid 2-2		1	12.1	0.35	0.550	2.33
	Grid 3-3		1	12.1	0.35	0.550	2.33
	Grid 4-4		1	12.1	0.35	0.550	2.33
	Grid 5-5		1	12.1	0.35	0.550	2.33
	Grid 6-6		1	12.1	0.35	0.550	2.33
	Grid 7-7		1	12.1	0.35	0.550	2.33
	Grid 8-8		1	12.1	0.35	0.550	2.33
	Grid 9-9		1	12.1	0.35	0.550	2.33
	Grid 10-10		1	12.1	0.35	0.550	2.33
	Grid 11-11		1	12.1	0.35	0.550	2.33
	Grid 12-12		1	12.1	0.35	0.550	2.33
	Grid 13-13		1	12.1	0.35	0.550	2.33
	Grid 14-14		1	12.1	0.35	0.550	2.33
	Grid 15-15		1	12.1	0.35	0.550	2.33
	Grid 16-16		1	12.1	0.35	0.550	2.33
	Grid 17-17		1	12.1	0.35	0.550	2.33
	Grid 18-18		1	12.1	0.35	0.550	2.33
	Grid 19-19		1	12.1	0.35	0.550	2.33
	Grid 20-20		1	12.1	0.35	0.550	2.33
	Grid A-A		1	97.9	0.35	0.550	18.85
	Grid B-B		1	97.9	0.35	0.550	18.85
	Grid C-C		1	97.9	0.35	0.550	18.85
	Ground Floor Beam						
	Grid 1-1		1	12.1	0.35	0.550	2.33
	Grid 2-2		1	12.1	0.35	0.550	2.33
	Grid 3-3		1	12.1	0.35	0.550	2.33
	Grid 4-4		1	12.1	0.35	0.550	2.33
	Grid 5-5		1	12.1	0.35	0.550	2.33
	Grid 6-6		1	12.1	0.35	0.550	2.33
	Grid 7-7		1	12.1	0.35	0.550	2.33
	Grid 8-8		1	12.1	0.35	0.550	2.33
	Grid 9-9		1	12.1	0.35	0.550	2.33

Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block A

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Grid 10-10		1	12.1	0.35	0.550	2.33
	Grid 11-11		1	12.1	0.35	0.550	2.33
	Grid 12-12		1	12.1	0.35	0.550	2.33
	Grid 13-13		1	12.1	0.35	0.550	2.33
	Grid 14-14		1	12.1	0.35	0.550	2.33
	Grid 15-15		1	12.1	0.35	0.550	2.33
	Grid 16-16		1	12.1	0.35	0.550	2.33
	Grid 17-17		1	12.1	0.35	0.550	2.33
	Grid 18-18		1	12.1	0.35	0.550	2.33
	Grid 19-19		1	12.1	0.35	0.550	2.33
	Grid 20-20		1	12.1	0.35	0.550	2.33
	Grid A-A		1	97.9	0.35	0.550	18.85
	Grid B-B		1	97.9	0.35	0.550	18.85
	Grid C-C		1	97.9	0.35	0.550	18.85
	First Floor Beam						
	Grid 1-1		1	6.3	0.35	0.55	1.2
	Grid 2-2		1	6.3	0.35	0.55	1.2
	Grid 3-3		1	6.3	0.35	0.55	1.2
	Grid 4-4		1	6.3	0.35	0.55	1.2
	Grid 5-5		1	6.3	0.35	0.55	1.2
	Grid 6-6		1	6.3	0.35	0.55	1.2
	Grid 7-7		1	6.3	0.35	0.55	1.2
	Grid 8-8		1	6.3	0.35	0.55	1.2
	Grid 9-9		1	6.3	0.35	0.55	1.2
	Grid 10-10		1	6.3	0.35	0.55	1.2
	Grid 11-11		1	6.3	0.35	0.55	1.2
	Grid 12-12		1	6.3	0.35	0.55	1.2
	Grid 13-13		1	6.3	0.35	0.55	1.2
	Grid 14-14		1	6.3	0.35	0.55	1.2
	Grid 15-15		1	6.3	0.35	0.55	1.2
	Grid 16-16		1	6.3	0.35	0.55	1.2
	Grid 17-17		1	6.3	0.35	0.55	1.2
	Grid 18-18		1	6.3	0.35	0.55	1.2
	Grid 19-19		1	6.3	0.35	0.55	1.2
	Grid 20-20		1	6.3	0.35	0.55	1.2
	Grid A-A		1	0.0	0.35	0.55	0.0
	Grid B-B		1	97.9	0.35	0.55	18.9
	Grid C-C		1	97.9	0.35	0.55	18.9
	Second Floor Beam						
	Grid 10-10		1	10.2	0.35	0.55	2.0
	Grid 11-11		1	10.2	0.35	0.55	2.0
	Grid B-B		1	9.2	0.35	0.55	1.8
	Grid C-C		1	97.9	0.35	0.55	18.9
	Third Floor Beam						
	Grid 10-10		1	10.2	0.35	0.55	2.0
	Grid 11-11		1	10.2	0.35	0.55	2.0

Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block A

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Grid B-B		1	9.2	0.35	0.55	1.8
	Grid C-C		1	9.2	0.35	0.55	1.8
	Inclined Beam for Sitting Place						
	Grid 1-1		1	13.2	0.35	0.55	2.5
	Grid 2-2		1	13.2	0.35	0.55	2.5
	Grid 3-3		1	13.2	0.35	0.55	2.5
	Grid 4-4		1	13.2	0.35	0.55	2.5
	Grid 5-5		1	13.2	0.35	0.55	2.5
	Grid 6-6		1	13.2	0.35	0.55	2.5
	Grid 7-7		1	13.2	0.35	0.55	2.5
	Grid 8-8		1	13.2	0.35	0.55	2.5
	Grid 9-9		1	13.2	0.35	0.55	2.5
	Grid 10-10		1	13.2	0.35	0.55	2.5
	Grid 11-11		1	13.2	0.35	0.55	2.5
	Grid 12-12		1	13.2	0.35	0.55	2.5
	Grid 13-13		1	13.2	0.35	0.55	2.5
	Grid 14-14		1	13.2	0.35	0.55	2.5
	Grid 15-15		1	13.2	0.35	0.55	2.5
	Grid 16-16		1	13.2	0.35	0.55	2.5
	Grid 17-17		1	13.2	0.35	0.55	2.5
	Grid 18-18		1	13.2	0.35	0.55	2.5
	Grid 19-19		1	13.2	0.35	0.55	2.5
	Grid 20-20		1	13.2	0.35	0.55	2.5
	Secondary Beam X-X Axis						
	Ground Floor		1	195.9	0.30	0.30	17.6
	First Floor		1	97.9	0.30	0.30	8.8
	Third Floor		1	10.3	0.30	0.30	0.9
	For Inclined Beam		1	195.9	0.30	0.30	17.6
	Secondary Beam Y-Y Axis						
	Ground Floor		1	145.2	0.30	0.30	13.1
	First Floor		1	75.6	0.30	0.30	6.8
	Third Floor		1	9.2	0.30	0.30	0.8
	For Inclined Beam		1	158.4	0.30	0.30	14.3
	Total of Beam						431.1
d	Slab						
	Ground Floor						
				A=	1294	0.150	194.0
	First Floor						
				A=	617	0.150	92.6
	Second Floor						
				A=	95	0.150	14.2
	Inclined Slab for Sitting Place						
				A=	1372	0.175	240.1
	Total of slab						541.0

Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block A

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
e	Staircase						
	Ground Floor						
	Staircase for Spectator						
	First flight		1	4.6	3.40	0.15	2.3
	Second flight		1	3.5	3.40	0.15	1.8
	Landing		1	1.5	3.40	0.15	0.8
	Steps		1	25.0	0.27	0.16	1.1
	Ground Floor						
	Staircase 1						
	First flight		2	2.2	1.20	0.15	0.8
	Second flight		1	2.6	1.20	0.15	0.5
	Landing		2	1.2	1.20	0.15	0.4
	Steps		1	25.0	0.27	0.16	1.1
	First Floor						
	Staircase 1						
	First flight		2	2.2	1.20	0.15	0.8
	Second flight		1	2.6	1.20	0.15	0.5
	Landing		2	1.2	1.20	0.15	0.4
	Steps		1	19.0	0.27	0.16	0.8
	Total						11.3
g	Bands						
	Ground Floor						
	Sill/Lintel Band		2	313.9	0.250	0.075	5.9
	First Floor						
	Sill/Lintel Band		2	311.8	0.250	0.075	5.8
	Second and Third Floor						
	Sill/Lintel Band		2	171.3	0.250	0.075	3.2
	Deduction of openings						
	D1		4	3.1	0.250	0.075	0.2
	D2		1	4.1	0.250	0.075	0.1
	D3		12	5.8	0.250	0.075	1.3
	D4		9	1.2	0.250	0.075	0.2
	D5		5	0.75	0.250	0.075	0.1
	W3		5	3	0.250	0.075	0.3
	WT		12	5.5	0.250	0.075	1.2
	W2		1	6.3	0.250	0.075	0.1
	W1		1	25.6	0.250	0.075	0.5
	W4		27	0.5	0.250	0.075	0.3
							4.3
	Total Band						10.7
	TOTAL PCC						2177.9
9	Steel reinforcement bar of Fe 415/500 grade including straightening, cleaning, cutting, bending, placing in position and binding with annealed binding wire all complete as per design, drawing and specification	MT					

Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block A

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Total From BBS						384.1
10	Formwork, shuttering, centering with plywood and wooden post necessary propping, scaffolding, staging, supporting and removal etc all complete in perfect line and level as per design, drawing and specification	m ²					
a	Foundation						
	Isolated footing(F1)		1	228.1		0.75	171.1
	Total footing						171.1
b	Column						
	Below Plinth						
	C1		60	2.1		1.70	214.2
	Ground Floor						
	C1		60	2.1		3.5	434.7
	First Floor						
	C1		40	2.1		2.5	205.8
	Second Floor						
	C1		20	2.1		2.5	102.9
	Third Floor						
	C1		2	2.1		2.5	10.3
	Total column						967.9
c	Beam						
	Foundation Plinth Beam						
	Grid 1-1		1	12.1		1.450	17.5
	Grid 2-2		1	12.1		1.450	17.5
	Grid 3-3		1	12.1		1.450	17.5
	Grid 4-4		1	12.1		1.450	17.5
	Grid 5-5		1	12.1		1.450	17.5
	Grid 6-6		1	12.1		1.450	17.5
	Grid 7-7		1	12.1		1.450	17.5
	Grid 8-8		1	12.1		1.450	17.5
	Grid 9-9		1	12.1		1.450	17.5
	Grid 10-10		1	12.1		1.450	17.5
	Grid 11-11		1	12.1		1.450	17.5
	Grid 12-12		1	12.1		1.450	17.5
	Grid 13-13		1	12.1		1.450	17.5
	Grid 14-14		1	12.1		1.450	17.5
	Grid 15-15		1	12.1		1.450	17.5
	Grid 16-16		1	12.1		1.450	17.5
	Grid 17-17		1	12.1		1.450	17.5
	Grid 18-18		1	12.1		1.450	17.5
	Grid 19-19		1	12.1		1.450	17.5
	Grid 20-20		1	12.1		1.450	17.5
	Grid A-A		1	97.9		1.450	142.0
	Grid B-B		1	97.9		1.450	142.0
	Grid C-C		1	97.9		1.450	142.0

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block A

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Ground Floor Beam						
	Grid 1-1		1	12.1		1.450	17.5
	Grid 2-2		1	12.1		1.450	17.5
	Grid 3-3		1	12.1		1.450	17.5
	Grid 4-4		1	12.1		1.450	17.5
	Grid 5-5		1	12.1		1.450	17.5
	Grid 6-6		1	12.1		1.450	17.5
	Grid 7-7		1	12.1		1.450	17.5
	Grid 8-8		1	12.1		1.450	17.5
	Grid 9-9		1	12.1		1.450	17.5
	Grid 10-10		1	12.1		1.450	17.5
	Grid 11-11		1	12.1		1.450	17.5
	Grid 12-12		1	12.1		1.450	17.5
	Grid 13-13		1	12.1		1.450	17.5
	Grid 14-14		1	12.1		1.450	17.5
	Grid 15-15		1	12.1		1.450	17.5
	Grid 16-16		1	12.1		1.450	17.5
	Grid 17-17		1	12.1		1.450	17.5
	Grid 18-18		1	12.1		1.450	17.5
	Grid 19-19		1	12.1		1.450	17.5
	Grid 20-20		1	12.1		1.450	17.5
	Grid A-A		1	97.9		1.450	142.0
	Grid B-B		1	97.9		1.450	142.0
	Grid C-C		1	97.9		1.450	142.0
	First Floor Beam						
	Grid 1-1		1	6.3		1.45	9.1
	Grid 2-2		1	6.3		1.45	9.1
	Grid 3-3		1	6.3		1.45	9.1
	Grid 4-4		1	6.3		1.45	9.1
	Grid 5-5		1	6.3		1.45	9.1
	Grid 6-6		1	6.3		1.45	9.1
	Grid 7-7		1	6.3		1.45	9.1
	Grid 8-8		1	6.3		1.45	9.1
	Grid 9-9		1	6.3		1.45	9.1
	Grid 10-10		1	6.3		1.45	9.1
	Grid 11-11		1	6.3		1.45	9.1
	Grid 12-12		1	6.3		1.45	9.1
	Grid 13-13		1	6.3		1.45	9.1
	Grid 14-14		1	6.3		1.45	9.1
	Grid 15-15		1	6.3		1.45	9.1
	Grid 16-16		1	6.3		1.45	9.1
	Grid 17-17		1	6.3		1.45	9.1
	Grid 18-18		1	6.3		1.45	9.1
	Grid 19-19		1	6.3		1.45	9.1
	Grid 20-20		1	6.3		1.45	9.1
	Grid A-A		1	0.0		1.45	0.0
	Grid B-B		1	97.9		1.45	142.0
	Grid C-C		1	97.9		1.45	142.0

Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block A

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Second Floor Beam						
	Grid 10-10		1	10.2		1.45	14.8
	Grid 11-11		1	10.2		1.45	14.8
	Grid B-B		1	9.2		1.45	13.3
	Grid C-C		1	97.9		1.45	142.0
	Third Floor Beam						
	Grid 10-10		1	10.2		1.45	14.8
	Grid 11-11		1	10.2		1.45	14.8
	Grid B-B		1	9.2		1.45	13.3
	Grid C-C		1	9.2		1.45	13.3
	Inclined Beam for Sitting Place						
	Grid 1-1		1	13.2		1.45	19.1
	Grid 2-2		1	13.2		1.45	19.1
	Grid 3-3		1	13.2		1.45	19.1
	Grid 4-4		1	13.2		1.45	19.1
	Grid 5-5		1	13.2		1.45	19.1
	Grid 6-6		1	13.2		1.45	19.1
	Grid 7-7		1	13.2		1.45	19.1
	Grid 8-8		1	13.2		1.45	19.1
	Grid 9-9		1	13.2		1.45	19.1
	Grid 10-10		1	13.2		1.45	19.1
	Grid 11-11		1	13.2		1.45	19.1
	Grid 12-12		1	13.2		1.45	19.1
	Grid 13-13		1	13.2		1.45	19.1
	Grid 14-14		1	13.2		1.45	19.1
	Grid 15-15		1	13.2		1.45	19.1
	Grid 16-16		1	13.2		1.45	19.1
	Grid 17-17		1	13.2		1.45	19.1
	Grid 18-18		1	13.2		1.45	19.1
	Grid 19-19		1	13.2		1.45	19.1
	Grid 20-20		1	13.2		1.45	19.1
	Grid A-A		1	0.0		1.45	0.0
	Grid B-B		1	0.0		1.45	0.0
	Grid C-C		1	0.0		1.45	0.0
	Secondary Beam X-X Axis						
	Ground Floor		1	195.9		0.9	176.3
	First Floor		1	97.9		0.9	88.1
	Third Floor		1	10.3		0.9	9.3
	For Inclined Beam		1	195.9		0.9	176.3
	Secondary Beam Y-Y Axis						
	Ground Floor		1	145.2		0.9	130.7
	First Floor		1	75.6		0.9	68.0
	Third Floor		1	9.2		0.9	8.3
	For Inclined Beam		1	158.4		0.9	142.6

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block A

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Total of Beam						3444.2
d	Slab						
	Ground Floor			A=	1294		1293.6
				222.0		0.150	33.3
	First Floor			A=	617		617.4
				208.6		0.150	31.3
	Second Floor			A=	95		94.8
				204.4		0.150	30.7
	Inclined Slab for Sitting Place			A=	1372		1372.0
				222.4		0.175	38.9
	Total slab						3511.9
e	Staircase						
	Ground Floor						
	First flight		1	4.6	3.400		15.6
	Second flight		1	3.5	3.400		11.9
	Landing		1	1.5	3.400		5.1
	Steps		1	75.0	0.270		20.3
	Ground Floor						
	First flight		2	2.2	1.200		5.3
	Second flight		1	2.6	1.200		3.1
	Landing		2	1.2	1.200		2.9
	Steps		1	75.0	2.000		150.0
	Total						214.2
f	Bands						
	Ground Floor						
	Sill/Lintel Band		2	313.9		0.075	94.2
	First Floor						
	Sill/Lintel Band		2	311.8		0.075	93.6
	Second and Third Floor						
	Sill/Lintel Band		2	171.3		0.075	51.4
	Total						239.1
	Deduction of openings						
		D1	4	3.1		0.075	1.9
		D2	1	4.1		0.075	0.6
		D3	12	5.8		0.075	10.4
		D4	9	1.2		0.075	1.6
		D5	5	0.8		0.075	0.6
		W3	5	3.0		0.075	2.3

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block A

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
		WT	12	5.5		0.075	9.9
		W2	1	6.3		0.075	0.9
		W1	1	25.6		0.075	3.8
		W4	27	0.5		0.075	2.0
							34.1
	Total						8531.3
11	12.5mm thick cement sand plaster in (1:3) ratio on Ceiling with good finish including supplying of approved quality of cement & sand, chipping the concrete surface, wetting the surfaces & curing the work all complete as per the design, drawing and specification	m ²					
	Ground Floor						
	Ceiling Area		1	98	12.2		1195.6
	First Floor						
	Ceiling Area		1	98	6.3		617.4
	Second And Third Floor						
	Ceiling Area		2	9.2	10.3		189.5
	Total						2002.5
12	12.5mm thick cement sand plaster in (1:4) ratio on wall with good finish including supplying of approved quality of cement & sand, racking the joint, Chipping the concrete surface, wetting of surfaces & curing the work all complete as per the design, drawing and specification	m ²					
a	Wall						
	Ground Floor						
	Grid 1-1		2	12.1		3.45	83.5
	Grid 2-2		2	6.3		3.45	43.5
	Grid 6-6		2	6.3		3.45	43.5
	Grid 7-7		2	6.3		3.45	43.5
	Grid 10-10		2	6.3		3.45	43.5
	Grid 11-11		2	6.3		3.45	43.5
	Grid 14-14		2	6.3		3.45	43.5
	Grid 15-15		2	6.3		3.45	43.5
	Grid 19-19		2	6.3		3.45	43.5
	Grid 20-20		2	12.1		3.45	83.5
	Grid A-A		2	97.942		3.45	675.8
	Grid B-B		2	16.5		3.45	113.9
	Grid C-C		2	97.942		3.45	675.8
	X-axis(internal)		2	12.375		4	99.0
	Y-axis(internal)		2	14.5		4	116.0
	First Floor						
	Grid 1-1		2	12.1		2.45	59.3
	Grid 2-2		2	7		2.45	34.3
	Grid 6-6		2	7		2.45	34.3
	Grid 7-7		2	7		2.45	34.3

Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block A

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Grid 10-10		2	6.3		2.45	30.9
	Grid 11-11		2	6.3		2.45	30.9
	Grid 12-12		2	6.3		2.45	30.9
	Grid 13-13		2	0		2.45	0.0
	Grid 14-14		2	7		2.45	34.3
	Grid 15-15		2	7		2.45	34.3
	Grid 19-19		2	7		2.45	34.3
	Grid 20-20		2	12.1		2.45	59.3
	Grid B-B		2	97		2.45	475.3
	Grid C-C		2	97.942		2.45	479.9
	X-axis(internal)		2	22.593		3	135.6
	Y-axis(internal)		2	9.2		3	55.2
	Second Floor						
	Grid 1-1		2	6.3		2.45	30.9
	Grid 10-10		2	6.3		2.45	30.9
	Grid 11-11		2	6.3		2.45	30.9
	Grid 20-20		2	6.3		2.45	30.9
	Grid B-B		2	5.2		2.45	25.5
	Grid C-C		2	97.942		2.45	479.9
	Third Floor						
	Grid 10-10		2	11		2.45	53.9
	Grid 11-11		2	11		2.45	53.9
	Grid 20-20		2	1		2.45	4.9
	Grid B-B		2	10		2.45	49.0
	Grid C-C		2	10		2.45	49.0
	Parapet Wall		2	240		1.5	720.0
	Total						5317.7
	Deduction of openings						
		D1	4	3.1		2.4	29.8
		D2	1	4.1		2.4	9.8
		D3	12	5.8		2.4	167.0
		D4	9	1.2		2.1	22.7
		D5	5	0.8		2.1	7.9
		W3	5	3.0		4.75	71.3
		WT	12	5.5		2.4	158.4
		W2	1	6.3		1.5	9.5
		W1	1	25.6		1.5	38.4
		W4	27	0.5		1.2	16.2
		Total opening					530.9
		Total wall					4786.8
b	Column						
	Ground Floor						
	C1		60	2.1		3.45	434.7

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block A

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	First Floor						
	C1		40	2.1		2.45	205.8
	Second Floor						
	C1		20	2.1		2.45	102.9
	Third Floor						
	C1		4	2.0		2.45	19.6
	Total column						763.0
c	Beam						
	First Floor Beam						
	Grid 1-1		1	6.3		1.5	18.3
	Grid 2-2		1	6.3		1.5	18.3
	Grid 3-3		1	6.3		1.5	18.3
	Grid 4-4		1	6.3		1.5	18.3
	Grid 5-5		1	6.3		1.5	18.3
	Grid 6-6		1	6.3		1.5	18.3
	Grid 7-7		1	6.3		1.5	18.3
	Grid 8-8		1	6.3		1.5	18.3
	Grid 9-9		1	6.3		1.5	18.3
	Grid 10-10		1	6.3		1.5	18.3
	Grid 11-11		1	6.3		1.5	18.3
	Grid 12-12		1	6.3		1.5	18.3
	Grid 13-13		1	6.3		1.5	18.3
	Grid 14-14		1	6.3		1.5	18.3
	Grid 15-15		1	6.3		1.5	18.3
	Grid 16-16		1	6.3		1.5	18.3
	Grid 17-17		1	6.3		1.5	18.3
	Grid 18-18		1	6.3		1.5	18.3
	Grid 19-19		1	6.3		1.5	18.3
	Grid 20-20		1	6.3		1.5	18.3
	Grid A-A		1	0.0		1.5	0.0
	Grid B-B		1	97.9		1.5	284.0
	Grid C-C		1	97.9		1.5	284.0
	Second Floor Beam						
	Grid 1-1		1	0.0		1.5	0.0
	Grid 2-2		1	0.0		1.5	0.0
	Grid 3-3		1	0.0		1.5	0.0
	Grid 4-4		1	0.0		1.5	0.0
	Grid 5-5		1	0.0		1.5	0.0
	Grid 6-6		1	0.0		1.5	0.0
	Grid 7-7		1	0.0		1.5	0.0
	Grid 8-8		1	0.0		1.5	0.0
	Grid 9-9		1	0.0		1.5	0.0
	Grid 10-10		1	10.2		1.5	14.8
	Grid 11-11		1	10.2		1.5	14.8
	Grid 12-12		1	0.0		1.5	0.0
	Grid 13-13		1	0.0		1.5	0.0
	Grid 14-14		1	0.0		1.5	0.0

Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block A

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Grid 15-15		1	0.0		1.5	0.0
	Grid 16-16		1	0.0		1.5	0.0
	Grid 17-17		1	0.0		1.5	0.0
	Grid 18-18		1	0.0		1.5	0.0
	Grid 19-19		1	0.0		1.5	0.0
	Grid 20-20		1	0.0		1.5	0.0
	Grid A-A		1	0.0		1.5	0.0
	Grid B-B		1	9.2		1.5	13.3
	Grid C-C		1	97.9		1.5	142.0
	Third Floor Beam						
	Grid 1-1		1	0.0		1.5	0.0
	Grid 2-2		1	0.0		1.5	0.0
	Grid 3-3		1	0.0		1.5	0.0
	Grid 4-4		1	0.0		1.5	0.0
	Grid 5-5		1	0.0		1.5	0.0
	Grid 6-6		1	0.0		1.5	0.0
	Grid 7-7		1	0.0		1.5	0.0
	Grid 8-8		1	0.0		1.5	0.0
	Grid 9-9		1	0.0		1.5	0.0
	Grid 10-10		1	10.2		1.5	14.8
	Grid 11-11		1	10.2		1.5	14.8
	Grid 12-12		1	0.0		1.5	0.0
	Grid 13-13		1	0.0		1.5	0.0
	Grid 14-14		1	0.0		1.5	0.0
	Grid 15-15		1	0.0		1.5	0.0
	Grid 16-16		1	0.0		1.5	0.0
	Grid 17-17		1	0.0		1.5	0.0
	Grid 18-18		1	0.0		1.5	0.0
	Grid 19-19		1	0.0		1.5	0.0
	Grid 20-20		1	0.0		1.5	0.0
	Grid A-A		1	0.0		1.5	0.0
	Grid B-B		1	9.2		1.5	13.3
	Grid C-C		1	9.2		1.5	13.3
	Inclined Beam for Sitting Place						
	Grid 1-1		1	13.2		1.5	19.1
	Grid 2-2		1	13.2		1.5	19.1
	Grid 3-3		1	13.2		1.5	19.1
	Grid 4-4		1	13.2		1.5	19.1
	Grid 5-5		1	13.2		1.5	19.1
	Grid 6-6		1	13.2		1.5	19.1
	Grid 7-7		1	13.2		1.5	19.1
	Grid 8-8		1	13.2		1.5	19.1
	Grid 9-9		1	13.2		1.5	19.1
	Grid 10-10		1	13.2		1.5	19.1
	Grid 11-11		1	13.2		1.5	19.1
	Grid 12-12		1	13.2		1.5	19.1
	Grid 13-13		1	13.2		1.5	19.1

Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block A

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Grid 14-14		1	13.2		1.5	19.1
	Grid 15-15		1	13.2		1.5	19.1
	Grid 16-16		1	13.2		1.5	19.1
	Grid 17-17		1	13.2		1.5	19.1
	Grid 18-18		1	13.2		1.5	19.1
	Grid 19-19		1	13.2		1.5	19.1
	Grid 20-20		1	13.2		1.5	19.1
	Grid A-A		1	0.0		1.5	0.0
	Grid B-B		1	0.0		1.5	0.0
	Grid C-C		1	0.0		1.5	0.0
	Secondary Beam X-X Axis						
	Ground Floor		1	195.9		0.9	176.3
	First Floor		1	97.9		0.9	88.1
	Second Floor		1	0.0		0.9	0.0
	Third Floor		1	10.3		0.9	9.3
	For Inclined Beam		1	195.9		0.9	176.3
	Secondary Beam Y-Y Axis						
	Ground Floor		1	145.2		0.9	130.7
	First Floor		1	75.6		0.9	68.0
	Second Floor		1	0.0		0.9	0.0
	Third Floor		1	9.2		0.9	8.3
	For Inclined Beam		1	158.4		0.9	142.6
	Total of Beam						2357.0
d	Staircase						
	Ground Floor						
	First flight		1	4.6	3.4		15.6
	Second flight		1	3.5	3.4		11.9
	Landing		1	1.5	3.4		5.1
	Steps		1	75	0.27		20.3
	Ground Floor						
	First flight		2	2.2	1.2		5.3
	Second flight		1	2.6	1.2		3.1
	Landing		2	1.2	1.2		2.9
	Steps		1	75	2		150.0
	Total of Staircase						214.2
	Total						8121.0
13	Wall Putty	m2					
	Same as Plaster						8121.0
	Total						8121.0

Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block A

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
14	Supplying and fixing seasoned Sal wood Chaukhat (75mmx100mm) size as per drawings, specifications and instructions of site engineers all complete	m ³					
	D4		9	5.4	0.075	0.100	0.36
	D5		5	5.0	0.075	0.100	0.19
	W3		5	32.8	0.075	0.100	1.23
	WT		12	28.5	0.075	0.100	2.57
	W2		1	26.4	0.075	0.100	0.20
	W1		1	84.3	0.075	0.100	0.63
	W4		27	7.5	0.075	0.100	1.52
	Total						6.7
15	38mm thick Dila Shutter for Sal wood	m ²					
	D4		9	1.20		2.10	22.7
	D5		5	0.75		2.10	7.9
	W3		5	3.00		4.75	71.3
	WT		12	5.50		2.40	158.4
	W2		1	6.30		1.50	9.5
	W1		1	25.60		1.50	38.4
	W4		27	0.50		1.20	16.2
	Total						324.3
16	Channel Gate	m ²					
	D1		4	3.10		2.40	29.8
	D2		1	4.10		2.40	9.8
	D3		12	5.80		2.40	167.0
	Total						206.6
17	Supplying and laying of 38mm thick PCC (1:2:4) with 20mm down aggregates all complete within room area	m ²					
	Ground Floor		1	98.00	12.20		1195.6
	First Floor		1	98.00	6.30		617.4
	Second Floor and Third Floor		2	10.20	9.20		187.7
	Inclined Slab for Sitting Place		1	13.10	98.00		1283.8
	Total						3284.5
18	Supplying and laying of glazed or non glazed tiles in cement sand mortar (1:4) ratio with Boarder approved colour on wall and floor all complete.	m ²					
	First Floor						
	Toilet wall		1	63.4		1.5	95.1
	Toilet Floor		1	6.8		4.2	28.6
	Total						123.7
19	Supplying and laying of good quality marbal in cement sand motar (1:2) ratio with approved colour on floors, skirting and wall s all complete.	m ²					
	Ground Floor						
	Staircase for Spectator						
	Landing		4	3.4		1.80	24.5
	Steps		100	3.4		0.43	146.2

Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block A

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Ground Floor						
	Staircase 1						
	Landing		2	1.2		1.20	2.9
	Steps		25	1.2		0.43	12.9
	First Floor						
	Staircase 1						
	Landing		2	1.2		1.20	2.9
	Steps		19	1.2		0.43	9.8
	Total						199.1
20	3 mm thick cement sand punning on floor, skirting, dado etc, including mixing laying and rubbing with steel trowel to a hard, smooth and shining surface and curing all complete as per drawing and specification	m ²					
	Ground Floor						
	Ceiling Area		1	98	12.2		1195.6
	First Floor						
	Ceiling Area		1	98	6.3		617.4
	Second And Third Floor						
	Ceiling Area		2	9.2	10.3		189.5
	Total						2002.5
21	Two coats of water proof cement paint painting work (Distemper) in inner faces of building, within walls, floors, ceilings etc of approved brand and color as per instruction of site engineer	m ²					
	Total Plaster minus Outer Painting						7005.4
	Total						7005.4
22	Two coats of weather proof (Apex) paint painting work outer faces of building, within walls, floors, ceilings etc of approved brand as per instruction of site engineer						
a	Wall						
	Total Wall						
	Grid 1-1		1	12.2		10.0	122.0
	Grid 20-20		1	12.2		10.0	122.0
	Grid A-A		1	98.0		4.0	392.0
	Grid C-C		1	98.0		10.0	980.0
							1616.0
	Deduction of openings						
		D1	4	3.1		2.4	-29.8
		D2	1	4.1		2.4	-9.8
		D3	12	5.8		2.4	-167.0
		W3	5	3		4.75	-71.3
		WT	12	5.5		2.4	-158.4
		W2	1	6.3		1.5	-9.5
		W1	1	25.6		1.5	-38.4

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block A

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
		W4	27	0.5		1.2	-16.2
							-500.3
	Total						1115.7
23	Two coats of enamel Paint within doors / windows surfaces of approved color as per instructions	m ²					
		D4	9	1.2		2.1	22.7
		D5	5	0.75		2.1	7.9
		W3	5	3		4.75	71.3
		WT	12	5.5		2.4	158.4
		W2	1	6.3		1.5	9.5
		W1	1	25.6		1.5	38.4
		W4	27	0.5		1.2	16.2
	Total						324.3
24	Stainless steel railing work with 2" dia handrail and vertical post with 3 layers 1" dia horizontal pipes all complete	RM					
			1	302.4			302.4
	Total						302.4
25	Providing, fixing and installation of Expansion Joint for Horizontal Slab Area	RM					
			1	64.6			64.6
	Total						64.6

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block B

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
A	CIVIL WORK						
	EARTHWORK						
1	Site clearance before and after completion of work including desposing the remaining construction materials & plants & making the site in working condition all complete as per drawing and specification	m ²	1	100.0	25.000		2500.0
	Total						2500.0
2	Earthwork in excavation in soft clay and silty soil including 10 m lead and 1.5m lift	m ³					
a	Footings						
	Isolated footing(F1)		1	100.04	22.90	3.0	6872.0
	Total						6872.0
3	Earth Work in Filling	m ³					
	Filling work within foundation area					40% of foundation work	2748.8
	Total						2748.8
4	Stone soling work with levelling	m ³					
a	Footings						
	Isolated footing(F1)		1	100.0	22.90	0.200	458.1
	Total	m ³					458.1
5	1st Class Chimney Bhatta (Terai) Brickwork in cement (Nepal Standard OPC Cement) sand mortar in 1:4 sub-structure, super -structure (Ground Floor) with 1 st class bricks in perfect line and level including wetting the bricks, packing the joints and curing the work in all types and thickness of walls, column etc. as per instruction & specification	m ³					
a	Below Plinth Level						
	Grid 1-1		1	20.9	0.23	2.4	11.5
	Grid 2-2		1	20.9	0.23	2.4	11.5
	Grid 3-3		1	20.9	0.23	2.4	11.5
	Grid 4-4		1	20.9	0.23	2.4	11.5
	Grid 5-5		1	20.9	0.23	2.4	11.5
	Grid 6-6		1	20.9	0.23	2.4	11.5
	Grid 7-7		1	20.9	0.23	2.4	11.5
	Grid 8-8		1	20.9	0.23	2.4	11.5
	Grid 9-9		1	20.9	0.23	2.4	11.5
	Grid 10-10		1	20.9	0.23	2.4	11.5
	Grid 11-11		1	20.9	0.23	2.4	11.5
	Grid 12-12		1	20.9	0.23	2.4	11.5
	Grid 13-13		1	20.9	0.23	2.4	11.5
	Grid 14-14		1	20.9	0.23	2.4	11.5
	Grid 15-15		1	20.9	0.23	2.4	11.5
	Grid 16-16		1	20.9	0.23	2.4	11.5
	Grid 17-17		1	20.9	0.23	2.4	11.5
	Grid 18-18		1	20.9	0.23	2.4	11.5

Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block B

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Grid 19-19		1	20.9	0.23	2.4	11.5
	Grid 20-20		1	20.9	0.23	2.4	11.5
	Grid A-A		1	98.0	0.23	2.4	54.1
	Grid B-B		1	98.0	0.23	2.4	54.1
	Grid C-C		1	98.0	0.23	2.4	54.1
	Grid D-D		1	98.0	0.23	2.4	54.1
	Total						447.2
6	1st Class Chimney Bhatta (Terai) Brickwork in cement (Nepal Standard OPC Cement) sand mortar in 1:4 , super -structure (First Floor,Second Floor & Third Floor) with 1 st class bricks in perfect line and level including wetting the bricks, packing the joints and curing the work in all types and thickness of walls, column etc. as per instruction & specification complete work	m ³					
	Ground Floor						
	Grid 1-1		1	14.0	0.25	3.45	12.1
	Grid 2-2		1	14.0	0.25	3.45	12.1
	Grid 3-3		1	14.0	0.25	3.45	12.1
	Grid 4-4		1	14.0	0.25	3.45	12.1
	Grid 5-5		1	14.0	0.25	3.45	12.1
	Grid 6-6		1	14.0	0.25	3.45	12.1
	Grid 7-7		1	14.0	0.25	3.45	12.1
	Grid 8-8		1	14.0	0.25	3.45	12.1
	Grid 9-9		1	14.0	0.25	3.45	12.1
	Grid 10-10		1	14.0	0.25	3.45	12.1
	Grid 11-11		1	14.0	0.25	3.45	12.1
	Grid 12-12		1	14.0	0.25	3.45	12.1
	Grid 13-13		1	14.0	0.25	3.45	12.1
	Grid 14-14		1	14.0	0.25	3.45	12.1
	Grid 15-15		1	14.0	0.25	3.45	12.1
	Grid 16-16		1	14.0	0.25	3.45	12.1
	Grid 17-17		1	14.0	0.25	3.45	12.1
	Grid 18-18		1	14.0	0.25	3.45	12.1
	Grid 19-19		1	14.0	0.25	3.45	12.1
	Grid 20-20		1	14.0	0.25	3.45	12.1
	Grid A-A		1	98.0	0.25	3.45	84.6
	Grid B-B		1	98.0	0.25	3.45	84.6
	Grid C-C		1	98.0	0.25	3.45	84.6
	Grid D-D		1	98.0	0.25	3.45	84.6
	X-axis(internal)			254.2	0.25	4.00	0.0
	Y-axis(internal)			122.5	0.25	4.00	0.0

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block B

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	First Floor						
	Grid 1-1		1	5.8	0.25	2.45	3.6
	Grid 2-2		1	5.8	0.25	2.45	3.6
	Grid 3-3		1	5.8	0.25	2.45	3.6
	Grid 4-4		1	0.0	0.25	2.45	0.0
	Grid 5-5		1	0.0	0.25	2.45	0.0
	Grid 6-6		1	0.0	0.25	2.45	0.0
	Grid 7-7		1	0.0	0.25	2.45	0.0
	Grid 8-8		1	5.8	0.25	2.45	3.6
	Grid 9-9		1	5.8	0.25	2.45	3.6
	Grid 10-10		1	5.8	0.25	2.45	3.6
	Grid 11-11		1	0.0	0.25	2.45	0.0
	Grid 12-12		1	0.0	0.25	2.45	0.0
	Grid 13-13		1	0.0	0.25	2.45	0.0
	Grid 14-14		1	0.0	0.25	2.45	0.0
	Grid 15-15		1	0.0	0.25	2.45	0.0
	Grid 16-16		1	0.0	0.25	2.45	0.0
	Grid 17-17		1	0.0	0.25	2.45	0.0
	Grid 18-18		1	5.8	0.25	2.45	3.6
	Grid 19-19		1	5.8	0.25	2.45	3.6
	Grid 20-20		1	5.8	0.25	2.45	3.6
	Grid A-A		1	0.0	0.25	2.45	0.0
	Grid B-B		1	0.0	0.25	2.45	0.0
	Grid C-C		1	98.0	0.25	2.45	60.1
	Grid D-D		1	98.0	0.25	2.45	60.1
	X-axis(internal)		1	22.6	0.250	3.00	16.9
	Y-axis(internal)		1	9.2	0.250	3.00	6.9
	Second Floor						
	Grid 1-1		1	0.0	0.25	2.45	0.0
	Grid 2-2		1	0.0	0.25	2.45	0.0
	Grid 3-3		1	0.0	0.25	2.45	0.0
	Grid 4-4		1	0.0	0.25	2.45	0.0
	Grid 5-5		1	0.0	0.25	2.45	0.0
	Grid 6-6		1	0.0	0.25	2.45	0.0
	Grid 7-7		1	0.0	0.25	2.45	0.0
	Grid 8-8		1	0.0	0.25	2.45	0.0
	Grid 9-9		1	0.0	0.25	2.45	0.0
	Grid 10-10		1	0.0	0.25	2.45	0.0
	Grid 11-11		1	0.0	0.25	2.45	0.0
	Grid 12-12		1	0.0	0.25	2.45	0.0
	Grid 13-13		1	0.0	0.25	2.45	0.0
	Grid 14-14		1	0.0	0.25	2.45	0.0
	Grid 15-15		1	0.0	0.25	2.45	0.0
	Grid 16-16		1	0.0	0.25	2.45	0.0
	Grid 17-17		1	0.0	0.25	2.45	0.0

Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block B

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Grid 18-18		1	0.0	0.25	2.45	0.0
	Grid 19-19		1	0.0	0.25	2.45	0.0
	Grid 20-20		1	0.0	0.25	2.45	0.0
	Grid A-A		1	0.0	0.25	2.45	0.0
	Grid B-B		1	0.0	0.25	2.45	0.0
	Grid C-C		1	0.0	0.25	2.45	0.0
	Grid D-D		1	0.0	0.25	2.45	0.0
	Third Floor						
	Grid 1-1		1	0.0	0.250	2.450	0.0
	Grid 2-2		1	0.0	0.250	2.450	0.0
	Grid 3-3		1	0.0	0.250	2.450	0.0
	Grid 4-4		1	0.0	0.250	2.450	0.0
	Grid 5-5		1	0.0	0.250	2.450	0.0
	Grid 6-6		1	0.0	0.250	2.450	0.0
	Grid 7-7		1	0.0	0.250	2.450	0.0
	Grid 8-8		1	0.0	0.250	2.450	0.0
	Grid 9-9		1	0.0	0.250	2.450	0.0
	Grid 10-10		1	0.0	0.250	2.450	0.0
	Grid 11-11		1	0.0	0.250	2.450	0.0
	Grid 12-12		1	0.0	0.250	2.450	0.0
	Grid 13-13		1	0.0	0.250	2.450	0.0
	Grid 14-14		1	0.0	0.250	2.450	0.0
	Grid 15-15		1	0.0	0.250	2.450	0.0
	Grid 16-16		1	0.0	0.250	2.450	0.0
	Grid 17-17		1	0.0	0.250	2.450	0.0
	Grid 18-18		1	0.0	0.250	2.450	0.0
	Grid 19-19		1	0.0	0.250	2.450	0.0
	Grid 20-20		1	1.0	0.250	2.450	0.6
	Grid A-A		1	0.0	0.250	2.450	0.0
	Grid B-B		1	0.0	0.250	2.450	0.0
	Grid C-C		1	0.0	0.250	2.450	0.0
	Grid D-D		1	0.0	0.250	2.450	0.0
	Parapet Wall		1	240.0	0.25	1.5	90.0
	Deduction of openings						
	D1		4	3.1	0.23	2.4	6.8
	D2		0	4.1	0.23	2.4	0.0
	D3		0	5.8	0.23	2.4	0.0
	D4		27	1.2	0.23	2.1	15.6
	D5		61	0.8	0.23	2.1	22.1
	W1		16	5.0	0.23	2.4	44.2
	W2		12	3.0	0.23	2.4	19.9
	W3		6	0.9	0.23	1.6	2.0
	W4		10	2.0	0.23	1.44	6.6
	W5		5	1.2	0.23	8.65	11.9
	W6		4	2.4	1.23	0.6	7.1
	W7		4	1.3	2.23	0.6	6.8
	W8		2	1.7	3.23	1.1	11.7

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block B

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	W9		4	2.8	4.23	0.4	18.6
	Total						672.9
7	Plain cement concret PCC M10, (1:3:6) work in foundation and floors with cement,sand and crussed aggregate of 10 mm to 38mm gauge including mixing with mixtere machin & compaction by vibrator ,laying in line & level with curing all type of works complete as per specification & instruction	m ³					
a	Footings						
	Isolated footing(F1)		1	100.0	22.9	0.075	171.8
	Total						171.8
8	Plain cement Concrete (PCC) in 1:1.5:3 ratio for RCC works in column, beam, slab etc. with approved quality of cement, sand and stone aggregate including mixing, laying, compacting and curing etc all complete as per design, drawing and specification	m ³					
a	Foundation						
	Isolated footing(F1)		1	100.0	22.9	0.8	1718.0
	Total footing						1718.0
b	Column						
	Below Plinth						
	C1		80	0.525	0.525	1.7	37.5
	Ground Floor						
	C1		60	0.525	0.525	3.5	57.1
	First Floor						
	C1		40	0.525	0.525	2.5	27.0
	Second Floor						
	C1		20	0.525	0.525	2.5	13.5
	Third Floor						
	C1		7	0.525	0.525	5.8	11.1
	Total of column						146.2
c	Beam						
	Foundation Plinth Beam						

Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block B

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Grid 1-1		1	20.9	0.35	0.550	4.02
	Grid 2-2		1	20.9	0.35	0.550	4.02
	Grid 3-3		1	20.9	0.35	0.550	4.02
	Grid 4-4		1	20.9	0.35	0.550	4.02
	Grid 5-5		1	20.9	0.35	0.550	4.02
	Grid 6-6		1	20.9	0.35	0.550	4.02
	Grid 7-7		1	20.9	0.35	0.550	4.02
	Grid 8-8		1	20.9	0.35	0.550	4.02
	Grid 9-9		1	20.9	0.35	0.550	4.02
	Grid 10-10		1	20.9	0.35	0.550	4.02
	Grid 11-11		1	20.9	0.35	0.550	4.02
	Grid 12-12		1	20.9	0.35	0.550	4.02
	Grid 13-13		1	20.9	0.35	0.550	4.02
	Grid 14-14		1	20.9	0.35	0.550	4.02
	Grid 15-15		1	20.9	0.35	0.550	4.02
	Grid 16-16		1	20.9	0.35	0.550	4.02
	Grid 17-17		1	20.9	0.35	0.550	4.02
	Grid 18-18		1	20.9	0.35	0.550	4.02
	Grid 19-19		1	20.9	0.35	0.550	4.02
	Grid 20-20		1	20.9	0.35	0.550	4.02
	Grid A-A		1	98.0	0.35	0.550	18.87
	Grid B-B		1	98.0	0.35	0.550	18.87
	Grid C-C		1	98.0	0.35	0.550	18.87
	Grid D-D		1	98.0	0.35	0.550	18.87
	Ground Floor Beam						
	Grid 1-1		1	14.6	0.35	0.550	2.81
	Grid 2-2		1	14.6	0.35	0.550	2.81
	Grid 3-3		1	14.6	0.35	0.550	2.81
	Grid 4-4		1	14.6	0.35	0.550	2.81
	Grid 5-5		1	14.6	0.35	0.550	2.81
	Grid 6-6		1	14.6	0.35	0.550	2.81
	Grid 7-7		1	14.6	0.35	0.550	2.81
	Grid 8-8		1	14.6	0.35	0.550	2.81
	Grid 9-9		1	14.6	0.35	0.550	2.81
	Grid 10-10		1	14.6	0.35	0.550	2.81
	Grid 11-11		1	14.6	0.35	0.550	2.81
	Grid 12-12		1	14.6	0.35	0.550	2.81
	Grid 13-13		1	14.6	0.35	0.550	2.81
	Grid 14-14		1	14.6	0.35	0.550	2.81
	Grid 15-15		1	14.6	0.35	0.550	2.81
	Grid 16-16		1	14.6	0.35	0.550	2.81
	Grid 17-17		1	14.6	0.35	0.550	2.81
	Grid 18-18		1	14.6	0.35	0.550	2.81
	Grid 19-19		1	14.6	0.35	0.550	2.81
	Grid 20-20		1	14.6	0.35	0.550	2.81
	Grid A-A		1	98.0	0.35	0.550	18.87
	Grid B-B		1	98.0	0.35	0.550	18.87
	Grid C-C		1	98.0	0.35	0.550	18.87

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block B

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Grid D-D		0	98.0	0.35	0.550	0.00
	First Floor Beam						
	Grid 1-1		1	9.3	0.35	0.55	1.8
	Grid 2-2		1	9.3	0.35	0.55	1.8
	Grid 3-3		1	9.3	0.35	0.55	1.8
	Grid 4-4		1	9.3	0.35	0.55	1.8
	Grid 5-5		1	9.3	0.35	0.55	1.8
	Grid 6-6		1	9.3	0.35	0.55	1.8
	Grid 7-7		1	9.3	0.35	0.55	1.8
	Grid 8-8		1	9.3	0.35	0.55	1.8
	Grid 9-9		1	9.3	0.35	0.55	1.8
	Grid 10-10		1	9.3	0.35	0.55	1.8
	Grid 11-11		1	9.3	0.35	0.55	1.8
	Grid 12-12		1	9.3	0.35	0.55	1.8
	Grid 13-13		1	9.3	0.35	0.55	1.8
	Grid 14-14		1	9.3	0.35	0.55	1.8
	Grid 15-15		1	9.3	0.35	0.55	1.8
	Grid 16-16		1	9.3	0.35	0.55	1.8
	Grid 17-17		1	9.3	0.35	0.55	1.8
	Grid 18-18		1	9.3	0.35	0.55	1.8
	Grid 19-19		1	9.3	0.35	0.55	1.8
	Grid 20-20		1	9.3	0.35	0.55	1.8
	Grid A-A		1	98.0	0.35	0.55	18.9
	Grid B-B		1	98.0	0.35	0.55	18.9
	Grid C-C		0	98.0	0.35	0.55	0.0
	Grid D-D		0	98.0	0.35	0.55	0.0
	Second Floor Beam						
	Grid 1-1		1	0.0	0.35	0.55	0.0
	Grid 2-2		1	0.0	0.35	0.55	0.0
	Grid 3-3		1	0.0	0.35	0.55	0.0
	Grid 4-4		1	0.0	0.35	0.55	0.0
	Grid 5-5		1	0.0	0.35	0.55	0.0
	Grid 6-6		1	0.0	0.35	0.55	0.0
	Grid 7-7		1	0.0	0.35	0.55	0.0
	Grid 8-8		1	0.0	0.35	0.55	0.0
	Grid 9-9		1	0.0	0.35	0.55	0.0
	Grid 10-10		1	0.0	0.35	0.55	0.0
	Grid 11-11		1	0.0	0.35	0.55	0.0
	Grid 12-12		1	0.0	0.35	0.55	0.0
	Grid 13-13		1	0.0	0.35	0.55	0.0
	Grid 14-14		1	0.0	0.35	0.55	0.0
	Grid 15-15		1	0.0	0.35	0.55	0.0
	Grid 16-16		1	0.0	0.35	0.55	0.0
	Grid 17-17		1	0.0	0.35	0.55	0.0
	Grid 18-18		1	0.0	0.35	0.55	0.0
	Grid 19-19		1	0.0	0.35	0.55	0.0

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block B

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Grid 20-20		1	0.0	0.35	0.55	0.0
	Grid A-A		1	98.0	0.35	0.55	18.9
	Grid B-B		0	98.0	0.35	0.55	0.0
	Grid C-C		0	98.0	0.35	0.55	0.0
	Grid D-D		0	98.0	0.35	0.55	0.0
	Third Floor Beam						
	Grid 1-1		1	0.0	0.35	0.55	0.0
	Grid 2-2		1	0.0	0.35	0.55	0.0
	Grid 3-3		1	0.0	0.35	0.55	0.0
	Grid 4-4		1	0.0	0.35	0.55	0.0
	Grid 5-5		1	0.0	0.35	0.55	0.0
	Grid 6-6		1	0.0	0.35	0.55	0.0
	Grid 7-7		1	0.0	0.35	0.55	0.0
	Grid 8-8		1	0.0	0.35	0.55	0.0
	Grid 9-9		1	0.0	0.35	0.55	0.0
	Grid 10-10		1	0.0	0.35	0.55	0.0
	Grid 11-11		1	0.0	0.35	0.55	0.0
	Grid 12-12		1	0.0	0.35	0.55	0.0
	Grid 13-13		1	0.0	0.35	0.55	0.0
	Grid 14-14		1	0.0	0.35	0.55	0.0
	Grid 15-15		1	0.0	0.35	0.55	0.0
	Grid 16-16		1	0.0	0.35	0.55	0.0
	Grid 17-17		1	0.0	0.35	0.55	0.0
	Grid 18-18		1	0.0	0.35	0.55	0.0
	Grid 19-19		1	0.0	0.35	0.55	0.0
	Grid 20-20		1	0.0	0.35	0.55	0.0
	Grid A-A		1	98.0	0.35	0.55	18.9
	Grid B-B		0	0.0	0.35	0.55	0.0
	Grid C-C		0	0.0	0.35	0.55	0.0
	Grid D-D		0	0.0	0.35	0.55	0.0
	Inclined Beam for Sitting Place						
	Grid 1-1		1	21.0	0.35	0.55	4.0
	Grid 2-2		1	21.0	0.35	0.55	4.0
	Grid 3-3		1	21.0	0.35	0.55	4.0
	Grid 4-4		1	21.0	0.35	0.55	4.0
	Grid 5-5		1	21.0	0.35	0.55	4.0
	Grid 6-6		1	21.0	0.35	0.55	4.0
	Grid 7-7		1	21.0	0.35	0.55	4.0
	Grid 8-8		1	21.0	0.35	0.55	4.0
	Grid 9-9		1	21.0	0.35	0.55	4.0
	Grid 10-10		1	21.0	0.35	0.55	4.0
	Grid 11-11		1	21.0	0.35	0.55	4.0
	Grid 12-12		1	21.0	0.35	0.55	4.0
	Grid 13-13		1	21.0	0.35	0.55	4.0
	Grid 14-14		1	21.0	0.35	0.55	4.0
	Grid 15-15		1	21.0	0.35	0.55	4.0
	Grid 16-16		1	21.0	0.35	0.55	4.0

Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block B

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Grid 17-17		1	21.0	0.35	0.55	4.0
	Grid 18-18		1	21.0	0.35	0.55	4.0
	Grid 19-19		1	21.0	0.35	0.55	4.0
	Grid 20-20		1	21.0	0.35	0.55	4.0
	Grid A-A		1	0.0	0.35	0.55	0.0
	Grid B-B		0	0.0	0.35	0.55	0.0
	Grid C-C		0	0.0	0.35	0.55	0.0
	Grid D-D		0	0.0	0.35	0.55	0.0
	Secondary Beam X-X Axis						
	Ground Floor		1	195.9	0.30	0.30	17.6
	First Floor		1	97.9	0.30	0.30	8.8
	Second Floor		1	0.0	0.30	0.30	0.0
	Third Floor		1	0.0	0.30	0.30	0.0
	For Inclined Beam		1	293.8	0.30	0.30	26.4
	Secondary Beam Y-Y Axis						
	Ground Floor		1	250.8	0.30	0.30	22.6
	First Floor		1	181.2	0.30	0.30	16.3
	Second Floor		1	0.0	0.30	0.30	0.0
	Third Floor		1	0.0	0.30	0.30	0.0
	For Inclined Beam		1	252.0	0.30	0.30	22.7
	Total of Beam						575.4
d	Slab						
	Ground Floor						
				A=	1431	0.150	214.6
	First Floor						
				A=	617	0.150	92.6
	Second Floor						
				A=	0	0.150	0.0
	Inclined Slab for Sitting Place						
				A=	2058	0.175	360.2
	Total of slab						667.4
e	Staircase						
	Ground Floor						
	Staircase for Spectator						
	First flight		4	4.6	3.40	0.15	9.4
	Second flight		4	3.5	3.40	0.15	7.1
	Landing		4	1.5	3.40	0.15	3.1
	Steps		4	25.0	0.27	0.16	4.3
	Ground Floor						
	Staircase 1						
	First flight		2	2.2	1.20	0.15	2.4
	Second flight		1	2.6	1.20	0.15	1.4
	Landing		2	1.2	1.20	0.15	1.3
	Steps		1	25.0	0.27	0.16	3.2

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block B

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	First Floor						
	Staircase 1						
	First flight		2	2.2	1.20	0.15	2.4
	Second flight		1	2.6	1.20	0.15	1.4
	Landing		2	1.2	1.20	0.15	1.3
	Steps		1	19.0	0.27	0.16	2.5
	Total						39.8
g	Bands						
	Ground Floor						
	Sill/Lintel Band		2	1048.9	0.250	0.075	19.7
	First Floor						
	Sill/Lintel Band		2	280.1	0.250	0.075	5.3
	Deduction of openings						
		D1	4	3.1	0.250	0.075	0.2
		D2	0	4.1	0.250	0.075	0.0
		D3	0	5.8	0.250	0.075	0.0
		D4	27	1.2	0.250	0.075	0.6
		D5	61	0.75	0.250	0.075	0.9
		W1	16	5	0.250	0.075	1.5
		W2	12	3	0.250	0.075	0.7
		W3	6	0.9	0.250	0.075	0.1
		W4	10	2	0.250	0.075	0.4
		W5	5	1.2	0.250	0.075	0.1
		W6	4	2.4	0.250	0.075	0.2
		W7	4	1.275	0.250	0.075	0.1
		W8	2	1.65	0.250	0.075	0.1
		W9	4	2.75	0.250	0.075	0.2
							4.5
	Total Band						20.5
	TOTAL PCC						3167.2
9	Steel reinforcement bar of Fe 415/500 grade including straightening, cleaning, cutting, bending, placing in position and binding with annealed binding wire all complete as per design, drawing and specification	MT					
	Total From BBS						507.4
10	Formwork, shuttering, centering with plywood and wooden post necessary propping, scaffolding, staging, supporting and removal etc all complete in perfect line and level as per design, drawing and specification	m ²					
a	Foundation						
	Isolated footing(F1)		1	245.9		0.75	184.4
	Total footing						184.4

Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block B

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
b	Column						
	Below Plinth						
	C1		80	2.1		1.70	285.6
	Ground Floor						
	C1		60	2.1		3.5	434.7
	First Floor						
	C1		40	2.1		2.5	205.8
	Second Floor						
	C1		20	2.1		2.5	102.9
	Third Floor						
	C1		7	2.1		5.8	84.8
	Total column						1113.8
c	Beam						
	Foundation Plinth Beam						
	Grid 1-1		1	20.9		1.450	30.3
	Grid 2-2		1	20.9		1.450	30.3
	Grid 3-3		1	20.9		1.450	30.3
	Grid 4-4		1	20.9		1.450	30.3
	Grid 5-5		1	20.9		1.450	30.3
	Grid 6-6		1	20.9		1.450	30.3
	Grid 7-7		1	20.9		1.450	30.3
	Grid 8-8		1	20.9		1.450	30.3
	Grid 9-9		1	20.9		1.450	30.3
	Grid 10-10		1	20.9		1.450	30.3
	Grid 11-11		1	20.9		1.450	30.3
	Grid 12-12		1	20.9		1.450	30.3
	Grid 13-13		1	20.9		1.450	30.3
	Grid 14-14		1	20.9		1.450	30.3
	Grid 15-15		1	20.9		1.450	30.3
	Grid 16-16		1	20.9		1.450	30.3
	Grid 17-17		1	20.9		1.450	30.3
	Grid 18-18		1	20.9		1.450	30.3
	Grid 19-19		1	20.9		1.450	30.3
	Grid 20-20		1	20.9		1.450	30.3
	Grid A-A		1	98.0		1.450	142.2
	Grid B-B		1	98.0		1.450	142.2
	Grid C-C		1	98.0		1.450	142.2
	Grid D-D		1	98.0		1.450	142.2
	Ground Floor Beam						
	Grid 1-1		1	14.6		1.450	21.2
	Grid 2-2		1	14.6		1.450	21.2
	Grid 3-3		1	14.6		1.450	21.2
	Grid 4-4		1	14.6		1.450	21.2
	Grid 5-5		1	14.6		1.450	21.2
	Grid 6-6		1	14.6		1.450	21.2
	Grid 7-7		1	14.6		1.450	21.2
	Grid 8-8		1	14.6		1.450	21.2

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block B

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Grid 9-9		1	14.6		1.450	21.2
	Grid 10-10		1	14.6		1.450	21.2
	Grid 11-11		1	14.6		1.450	21.2
	Grid 12-12		1	14.6		1.450	21.2
	Grid 13-13		1	14.6		1.450	21.2
	Grid 14-14		1	14.6		1.450	21.2
	Grid 15-15		1	14.6		1.450	21.2
	Grid 16-16		1	14.6		1.450	21.2
	Grid 17-17		1	14.6		1.450	21.2
	Grid 18-18		1	14.6		1.450	21.2
	Grid 19-19		1	14.6		1.450	21.2
	Grid 20-20		1	14.6		1.450	21.2
	Grid A-A		1	98.0		1.450	142.2
	Grid B-B		1	98.0		1.450	142.2
	Grid C-C		1	98.0		1.450	142.2
	Grid D-D		0	98.0		1.450	0.0
	First Floor Beam						
	Grid 1-1		1	9.3		1.45	13.5
	Grid 2-2		1	9.3		1.45	13.5
	Grid 3-3		1	9.3		1.45	13.5
	Grid 4-4		1	9.3		1.45	13.5
	Grid 5-5		1	9.3		1.45	13.5
	Grid 6-6		1	9.3		1.45	13.5
	Grid 7-7		1	9.3		1.45	13.5
	Grid 8-8		1	9.3		1.45	13.5
	Grid 9-9		1	9.3		1.45	13.5
	Grid 10-10		1	9.3		1.45	13.5
	Grid 11-11		1	9.3		1.45	13.5
	Grid 12-12		1	9.3		1.45	13.5
	Grid 13-13		1	9.3		1.45	13.5
	Grid 14-14		1	9.3		1.45	13.5
	Grid 15-15		1	9.3		1.45	13.5
	Grid 16-16		1	9.3		1.45	13.5
	Grid 17-17		1	9.3		1.45	13.5
	Grid 18-18		1	9.3		1.45	13.5
	Grid 19-19		1	9.3		1.45	13.5
	Grid 20-20		1	9.3		1.45	13.5
	Grid A-A		1	98.0		1.45	142.2
	Grid B-B		1	98.0		1.45	142.2
	Grid C-C		0	98.0		1.45	0.0
	Grid D-D		0	98.0		1.45	0.0
	Second Floor Beam						
	Grid 1-1		1	0.0		1.45	0.0
	Grid 2-2		1	0.0		1.45	0.0
	Grid 3-3		1	0.0		1.45	0.0
	Grid 4-4		1	0.0		1.45	0.0
	Grid 5-5		1	0.0		1.45	0.0

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block B

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Grid 6-6		1	0.0		1.45	0.0
	Grid 7-7		1	0.0		1.45	0.0
	Grid 8-8		1	0.0		1.45	0.0
	Grid 9-9		1	0.0		1.45	0.0
	Grid 10-10		1	0.0		1.45	0.0
	Grid 11-11		1	0.0		1.45	0.0
	Grid 12-12		1	0.0		1.45	0.0
	Grid 13-13		1	0.0		1.45	0.0
	Grid 14-14		1	0.0		1.45	0.0
	Grid 15-15		1	0.0		1.45	0.0
	Grid 16-16		1	0.0		1.45	0.0
	Grid 17-17		1	0.0		1.45	0.0
	Grid 18-18		1	0.0		1.45	0.0
	Grid 19-19		1	0.0		1.45	0.0
	Grid 20-20		1	0.0		1.45	0.0
	Grid A-A		1	98.0		1.45	142.2
	Grid B-B		0	98.0		1.45	0.0
	Grid C-C		0	98.0		1.45	0.0
	Grid D-D		0	98.0		1.45	0.0
	Third Floor Beam						
	Grid 1-1		1	0.0		1.45	0.0
	Grid 2-2		1	0.0		1.45	0.0
	Grid 3-3		1	0.0		1.45	0.0
	Grid 4-4		1	0.0		1.45	0.0
	Grid 5-5		1	0.0		1.45	0.0
	Grid 6-6		1	0.0		1.45	0.0
	Grid 7-7		1	0.0		1.45	0.0
	Grid 8-8		1	0.0		1.45	0.0
	Grid 9-9		1	0.0		1.45	0.0
	Grid 10-10		1	0.0		1.45	0.0
	Grid 11-11		1	0.0		1.45	0.0
	Grid 12-12		1	0.0		1.45	0.0
	Grid 13-13		1	0.0		1.45	0.0
	Grid 14-14		1	0.0		1.45	0.0
	Grid 15-15		1	0.0		1.45	0.0
	Grid 16-16		1	0.0		1.45	0.0
	Grid 17-17		1	0.0		1.45	0.0
	Grid 18-18		1	0.0		1.45	0.0
	Grid 19-19		1	0.0		1.45	0.0
	Grid 20-20		1	0.0		1.45	0.0
	Grid A-A		1	98.0		1.45	142.2
	Grid B-B		0	0.0		1.45	0.0
	Grid C-C		0	0.0		1.45	0.0
	Grid D-D		0	0.0		1.45	0.0
	Inclined Beam for Sitting Place						
	Grid 1-1		1	21.0		1.45	30.5
	Grid 2-2		1	21.0		1.45	30.5

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block B

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Grid 3-3		1	21.0		1.45	30.5
	Grid 4-4		1	21.0		1.45	30.5
	Grid 5-5		1	21.0		1.45	30.5
	Grid 6-6		1	21.0		1.45	30.5
	Grid 7-7		1	21.0		1.45	30.5
	Grid 8-8		1	21.0		1.45	30.5
	Grid 9-9		1	21.0		1.45	30.5
	Grid 10-10		1	21.0		1.45	30.5
	Grid 11-11		1	21.0		1.45	30.5
	Grid 12-12		1	21.0		1.45	30.5
	Grid 13-13		1	21.0		1.45	30.5
	Grid 14-14		1	21.0		1.45	30.5
	Grid 15-15		1	21.0		1.45	30.5
	Grid 16-16		1	21.0		1.45	30.5
	Grid 17-17		1	21.0		1.45	30.5
	Grid 18-18		1	21.0		1.45	30.5
	Grid 19-19		1	21.0		1.45	30.5
	Grid 20-20		1	21.0		1.45	30.5
	Grid A-A		1	0.0		1.45	0.0
	Grid B-B		0	0.0		1.45	0.0
	Grid C-C		0	0.0		1.45	0.0
	Grid D-D		0	0.0		1.45	0.0
	Secondary Beam X-X Axis						
	Ground Floor		1	195.9		0.9	176.3
	First Floor		1	97.9		0.9	88.1
	Second Floor		1	0.0		0.9	0.0
	Third Floor		1	0.0		0.9	0.0
	For Inclined Beam		1	293.8		0.9	264.4
	Secondary Beam Y-Y Axis						
	Ground Floor		1	250.8		0.9	225.7
	First Floor		1	181.2		0.9	163.1
	Second Floor		1	0.0		0.9	0.0
	Third Floor		1	0.0		0.9	0.0
	For Inclined Beam		1	252.0		0.9	226.8
	Total of Beam						4616.5
d	Slab						
	Ground Floor						
				A=	1431		1430.8
				225.2		0.150	33.8
	First Floor						
				A=	617		617.4
				208.6		0.150	31.3
	Second Floor						
				A=	0		0.0
				0.0		0.150	0.0

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block B

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
11	12.5mm thick cement sand plaster in (1:3) ratio on Ceiling with good finish including supplying of approved quality of cement & sand, chipping the concrete surface, wetting the surfaces & curing the work all complete as per the design, drawing and specification	m ²					
	Ground Floor						
	Ceiling Area		1	98	14.6		1430.8
	First Floor						
	Ceiling Area		1	98	6.3		617.4
	Total						2048.2
12	12.5mm thick cement sand plaster in (1:4) ratio on wall with good finish including supplying of approved quality of cement & sand, racking the joint, Chipping the concrete surface, wetting of surfaces & curing the work all complete as per the design, drawing and specification	m ²					
a	Wall						
	Ground Floor						
	Grid 1-1		2	14		3.45	96.6
	Grid 2-2		2	14		3.45	96.6
	Grid 3-3		2	14		3.45	96.6
	Grid 4-4		2	14		3.45	96.6
	Grid 5-5		2	14		3.45	96.6
	Grid 6-6		2	14		3.45	96.6
	Grid 7-7		2	14		3.45	96.6
	Grid 8-8		2	14		3.45	96.6
	Grid 9-9		2	14		3.45	96.6
	Grid 10-10		2	14		3.45	96.6
	Grid 11-11		2	14		3.45	96.6
	Grid 12-12		2	14		3.45	96.6
	Grid 13-13		2	14		3.45	96.6
	Grid 14-14		2	14		3.45	96.6
	Grid 15-15		2	14		3.45	96.6
	Grid 16-16		2	14		3.45	96.6
	Grid 17-17		2	14		3.45	96.6
	Grid 18-18		2	14		3.45	96.6
	Grid 19-19		2	14		3.45	96.6
	Grid 20-20		2	14		3.45	96.6
	Grid A-A		2	98.042		3.45	676.5
	Grid B-B		2	98.042		3.45	676.5
	Grid C-C		2	98.042		3.45	676.5
	Grid D-D		2	98.042		3.45	676.5
	X-axis(internal)		2	254.2		4	2033.6
	Y-axis(internal)		2	122.5		4	980.0

Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block B

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	First Floor						
	Grid 1-1		2	5.8		2.45	28.4
	Grid 2-2		2	5.8		2.45	28.4
	Grid 3-3		2	5.8		2.45	28.4
	Grid 8-8		2	5.8		2.45	28.4
	Grid 9-9		2	5.8		2.45	28.4
	Grid 10-10		2	5.8		2.45	28.4
	Grid 18-18		2	5.8		2.45	28.4
	Grid 19-19		2	5.8		2.45	28.4
	Grid 20-20		2	5.8		2.45	28.4
	Grid C-C		2	98.042		2.45	480.4
	Grid D-D		2	98.042		2.45	480.4
	X-axis(internal)		2	22.593		3	135.6
	Y-axis(internal)		2	9.2		3	55.2
	Third Floor						
	Grid 20-20		2	1		2.45	4.9
	Parapet Wall		2	240		1.5	720.0
	Total						9783.8
	Deduction of openings						
		D1	4	3.1		2.4	29.8
		D4	27	1.2		2.1	68.0
		D5	61	0.8		2.1	96.1
		W1	16	5.0		2.4	192.0
		W2	12	3.0		2.4	86.4
		W3	6	0.9		1.6	8.6
		W4	10	2.0		1.44	28.8
		W5	5	1.2		8.65	51.9
		W6	4	2.4		0.6	5.8
		W7	4	1.3		0.6	3.1
		W8	2	1.7		1.1	3.6
		W9	4	2.8		0.4	4.4
	Total opening						578.5
	Total wall						9205.3
b	Column						
	Ground Floor						
	C1		60	2.1		3.45	434.7
	First Floor						
	C1		40	2.1		2.45	205.8
	Second Floor						
	C1		20	2.1		2.45	102.9
	Third Floor						

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block B

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	C1		7	2.0		5.766	80.7
	Total column						824.1
c	Beam						
	First Floor Beam						
	Grid 1-1		1	9.3		1.5	27.0
	Grid 2-2		1	9.3		1.5	27.0
	Grid 3-3		1	9.3		1.5	27.0
	Grid 4-4		1	9.3		1.5	27.0
	Grid 5-5		1	9.3		1.5	27.0
	Grid 6-6		1	9.3		1.5	27.0
	Grid 7-7		1	9.3		1.5	27.0
	Grid 8-8		1	9.3		1.5	27.0
	Grid 9-9		1	9.3		1.5	27.0
	Grid 10-10		1	9.3		1.5	27.0
	Grid 11-11		1	9.3		1.5	27.0
	Grid 12-12		1	9.3		1.5	27.0
	Grid 13-13		1	9.3		1.5	27.0
	Grid 14-14		1	9.3		1.5	27.0
	Grid 15-15		1	9.3		1.5	27.0
	Grid 16-16		1	9.3		1.5	27.0
	Grid 17-17		1	9.3		1.5	27.0
	Grid 18-18		1	9.3		1.5	27.0
	Grid 19-19		1	9.3		1.5	27.0
	Grid 20-20		1	9.3		1.5	27.0
	Grid A-A		1	98.0		1.5	284.3
	Grid B-B		1	98.0		1.5	284.3
	Second Floor Beam						
	Grid A-A		1	98.0		1.5	142.2
	Third Floor Beam						
	Grid A-A		1	98.0		1.5	142.2
	Inclined Beam for Sitting Place						
	Grid 1-1		1	21.0		1.5	30.5
	Grid 2-2		1	21.0		1.5	30.5
	Grid 3-3		1	21.0		1.5	30.5
	Grid 4-4		1	21.0		1.5	30.5
	Grid 5-5		1	21.0		1.5	30.5
	Grid 6-6		1	21.0		1.5	30.5
	Grid 7-7		1	21.0		1.5	30.5
	Grid 8-8		1	21.0		1.5	30.5
	Grid 9-9		1	21.0		1.5	30.5
	Grid 10-10		1	21.0		1.5	30.5
	Grid 11-11		1	21.0		1.5	30.5
	Grid 12-12		1	21.0		1.5	30.5
	Grid 13-13		1	21.0		1.5	30.5
	Grid 14-14		1	21.0		1.5	30.5

Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block B

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Grid 15-15		1	21.0		1.5	30.5
	Grid 16-16		1	21.0		1.5	30.5
	Grid 17-17		1	21.0		1.5	30.5
	Grid 18-18		1	21.0		1.5	30.5
	Grid 19-19		1	21.0		1.5	30.5
	Grid 20-20		1	21.0		1.5	30.5
	Secondary Beam X-X Axis						
	Ground Floor		1	195.9		0.9	176.3
	First Floor		1	97.9		0.9	88.1
	Second Floor		1	0.0		0.9	0.0
	Third Floor		1	0.0		0.9	0.0
	For Inclined Beam		1	293.8		0.9	264.4
	Secondary Beam Y-Y Axis						
	Ground Floor		1	250.8		0.9	225.7
	First Floor		1	181.2		0.9	163.1
	Second Floor		1	0.0		0.9	0.0
	Third Floor		1	0.0		0.9	0.0
	For Inclined Beam		1	252.0		0.9	226.8
	Total of Beam						3145.9
d	Staircase						
	Ground Floor						
	First flight		4	4.6	3.4		62.6
	Second flight		4	3.5	3.4		47.6
	Landing		4	1.5	3.4		20.4
	Steps		4	75	0.27		81.0
	Ground Floor						
	First flight		2	2.2	1.2		15.8
	Second flight		1	2.6	1.2		9.4
	Landing		2	1.2	1.2		8.6
	Steps		1	75	2		450.0
	Total of Staircase						695.4
	Total						13870.7
13	Wall Putty	m²					
	Same as Plaster						13870.7
	Total						13870.7
14	Supplying and fixing seasoned Sal wood Chaukhat (75mmx100mm) size as per drawings, specifications and instructions of site engineers all complete	m³					
	D4		27	5.4	0.075	0.100	1.09
	D5		61	5.0	0.075	0.100	2.26
	W1		16	27.0	0.075	0.100	3.24
	W2		12	21.0	0.075	0.100	1.89

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block B

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	W3		6	10.7	0.075	0.100	0.48
	W4		10	13.2	0.075	0.100	0.99
	W5		5	46.9	0.075	0.100	1.76
	W6		4	10.2	0.075	0.100	0.31
	W7		4	6.8	0.075	0.100	0.20
	W8		2	10.5	0.075	0.100	0.16
	W9		4	10.3	0.075	0.100	0.31
	Total						12.7
15	38mm thick Dila Shutter for Sal wood	m²					
	D4		27	1.20		2.10	68.0
	D5		61	0.75		2.10	96.1
	W1		16	5.00		2.40	192.0
	W2		12	3.00		2.40	86.4
	W3		6	0.90		1.60	8.6
	W4		10	2.00		1.44	28.8
	W5		5	1.20		8.65	51.9
	W6		4	2.40		0.60	5.8
	W7		4	1.28		0.60	3.1
	W8		2	1.65		1.10	3.6
	W9		4	2.75		0.40	4.4
	Total						548.7
16	Channel Gate	m²					
	D1		4	3.10		2.40	29.8
	Total						29.8
17	Supplying and laying of 38mm thick PCC (1:2:4) with 20mm down aggregates all complete within room area	m²					
	Ground Floor		1	98.00	14.60		1430.8
	First Floor		1	98.00	6.30		617.4
	Inclined Slab for Sitting Place		1	20.90	98.00		2048.2
	Total						4096.4
18	Supplying and laying of glazed or non glazed tiles in cement sand mortar (1:4) ratio with Boarder approved colour on wall and floor all complete.	m²					
	First Floor						
	Toilet wall		1	63.4		1.5	95.1
	Toilet Floor		1	6.8		4.2	28.6
	Total						123.7
19	Supplying and laying of good quality marbal in cement sand motar (1:2) ratio with approved colour on floors, skirting and wall s all complete.	m²					
	Ground Floor						
	Staircase for Spectator						
	Landing		4	3.4		1.80	24.5
	Steps		100	3.4		0.43	146.2
	Ground Floor						
	Staircase 1						
	Landing		2	1.2		1.20	8.6

Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block B

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Steps		25	1.2		0.43	38.7
	First Floor						
	Staircase 1						
	Landing		2	1.2		1.20	8.6
	Steps		19	1.2		0.43	29.4
	Total						256.1
20	3 mm thick cement sand punning on floor, skirting, dado etc, including mixing laying and rubbing with steel trowel to a hard, smooth and shining surface and curing all complete as per drawing and specification	m ²					
	Ground Floor						
	Ceiling Area		1	98	14.6		1430.8
	First Floor						
	Ceiling Area		1	98	6.3		617.4
	Total						2048.2
21	Two coats of water proof cement paint painting work (Distemper) in inner faces of building, within walls, floors, ceilings etc of approved brand and color as per instruction of site engineer	m ²					
	Total Plaster minus Outer Painting						
							13061.1
	Total						13061.1
22	Two coats of weather proof (Apex) paint painting work outer faces of building, within walls, floors, ceilings etc of approved brand as per instruction of site engineer						
a	Wall						
	Total Wall						
	Grid 1-1		1	12.2		10.0	122.0
	Grid 20-20		1	12.2		10.0	122.0
	Grid C-C		1	98.0		10.0	980.0
							1224.0
	Deduction of openings						
		D1	4	3.1		2.4	-29.8
		W1	16	5		2.4	-192.0
		W2	12	3		2.4	-86.4
		W3	6	0.9		1.6	-8.6
		W4	10	2		1.44	-28.8
		W5	5	1.2		8.65	-51.9
		W6	4	2.4		0.6	-5.8
		W7	4	1.275		0.6	-3.1
		W8	2	1.65		1.1	-3.6
		W9	4	2.75		0.4	-4.4
							-414.4
	Total						809.7
23	Two coats of enamel Paint within doors / windows surfaces of approved color as per instructions	m ²					

Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block B

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
		D4	27	1.2		2.1	68.0
		D5	61	0.75		2.1	96.1
		W1	16	5		2.4	192.0
		W2	12	3		2.4	86.4
		W3	6	0.9		1.6	8.6
		W4	10	2		1.44	28.8
		W5	5	1.2		8.65	51.9
		W6	4	2.4		0.6	5.8
		W7	4	1.275		0.6	3.1
		W8	2	1.65		1.1	3.6
		W9	4	2.75		0.4	4.4
	Total						548.7
24	Stainless steel railing work with 2" dia handrail and vertical post with 3 layers 1" dia horizontal pipes all complete	Rm					
			1	237.8			237.8
	Total						237.8
25	Providing, fixing and installation of Expansion Joint for Horizontal Slab Area	RM					
			1	88.6			88.6
	Total						88.6

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block B

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
A	CIVIL WORK						
	EARTHWORK						
1	Site clearance before and after completion of work including desposing the remaining construction materials & plants & making the site in working condition all complete as per drawing and specification	m ²	1	290.0			290.0
	Total						290.0
2	Earthwork in excavation in soft clay and silty soil including 10 m lead and 1.5m lift	m ³					
	a Footings						
	Isolated footing(F1)		1	286.00		3.0	858.0
	Total						858.0
3	Earth Work in Filling	m ³					
	Filling work within foundation area			40% of foundation work			343.2
	Total						343.2
4	Stone soling work with levelling	m ³					
	a Footings						
	Isolated footing(F1)		1	286.0		0.200	57.2
	Total	m ³					57.2
5	1st Class Chimney Bhatta (Terai) Brickwork in cement (Nepal Standard OPC Cement) sand mortar in 1:4 sub-structure, super -structure (Ground Floor) with 1 st class bricks in perfect line and level including wetting the bricks, packing the joints and curing the work in all types and thickness of walls, column etc. as per instruction & specification	m ³					
	a Below Plinth Level						
	Grid 1-1		1	12.1	0.23	2.4	6.7
	Grid 2-2		1	5.8	0.23	2.4	3.2
	Grid 3-3		1	12.1	0.23	2.4	6.7
	Grid 4-4		1	5.8	0.23	2.4	3.2
	Grid 5-5		1	12.1	0.23	2.4	6.7
	Grid 6-6		1	5.8	0.23	2.4	3.2
	Grid 7-7		1	12.1	0.23	2.4	6.7
	Grid A-A		1	33.1	0.23	2.4	18.3
	Grid B-B		1	23.6	0.23	2.4	13.0
	Grid C-C		1	14.1	0.23	2.4	7.8
	Total						75.4

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block B

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
6	1st Class Chimney Bhatta (Terai) Brickwork in cement (Nepal Standard OPC Cement) sand mortar in 1:4 , super -structure (First Floor,Second Floor & Third Floor) with 1 st class bricks in perfect line and level including wetting the bricks, packing the joints and curing the work in all types and thickness of walls, column etc. as per instruction & specification complete work	m ³					
	Ground Floor						
	Grid A-A		1	33.1	0.25	3.45	28.6
	Grid C-C		1	14.1	0.25	3.45	12.2
	First Floor						
	Grid A-A		1	33.1	0.25	2.45	20.3
	Second Floor						
	Grid A-A		0	33.1	0.25	2.45	20.3
	Third Floor						
	Grid A-A		0	33.1	0.250	2.450	20.3
	Parapet Wall		1	47.2	0.25	1.5	17.7
	Total						119.3
7	Plain cement concret PCC M10, (1:3:6) work in foundation and floors with cement,sand and crussed aggregate of 10 mm to 38mm gauge including mixing with mixtere machin & compaction by vibrator ,laying in line & level with curing all type of works complete as per specification & instruction	m ³					
a	Footings						
	Isolated footing(F1)		1	286.0		0.075	21.5
	Total						21.5
8	Plain cement Concrete (PCC) in 1:1.5:3 ratio for RCC works in column, beam, slab etc. with approved quality of cement, sand and stone aggregate including mixing, laying, compacting and curing etc all complete as per design, drawing and specification	m ³					
a	Foundation						
	Isolated footing(F1)		1	286.0		0.8	214.5
	Total footing						214.5
b	Column						
	Below Plinth						
	C1		18	0.525	0.525	1.7	8.4
	Ground Floor						
	C1		18	0.525	0.525	3.5	17.1
	First Floor						

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block B

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	C1		14	0.525	0.525	2.5	9.5
	Second Floor						
	C1		7	0.525	0.525	2.5	4.7
	Total of column						39.7
c	Beam						
	Foundation Plinth Beam						
	Grid 1-1		1	12.1	0.35	0.550	2.33
	Grid 2-2		1	5.8	0.35	0.550	1.12
	Grid 3-3		1	12.1	0.35	0.550	2.33
	Grid 4-4		1	5.8	0.35	0.550	1.12
	Grid 5-5		1	12.1	0.35	0.550	2.33
	Grid 6-6		1	5.8	0.35	0.550	1.12
	Grid 7-7		1	12.1	0.35	0.550	2.33
	Grid A-A		1	33.1	0.35	0.550	6.37
	Grid B-B		1	23.6	0.35	0.550	4.55
	Grid C-C		1	14.1	0.35	0.550	2.72
	Ground Floor Beam						
	Grid 1-1		1	12.1	0.35	0.550	2.33
	Grid 2-2		1	5.8	0.35	0.550	1.12
	Grid 3-3		1	12.1	0.35	0.550	2.33
	Grid 4-4		1	5.8	0.35	0.550	1.12
	Grid 5-5		1	12.1	0.35	0.550	2.33
	Grid 6-6		1	5.8	0.35	0.550	1.12
	Grid 7-7		1	12.1	0.35	0.550	2.33
	Grid A-A		1	33.1	0.35	0.550	6.37
	Grid B-B		1	23.6	0.35	0.550	4.55
	Grid C-C		1	14.1	0.35	0.550	2.72
	First Floor Beam						
	Grid 1-1		1	5.8	0.35	0.55	1.1
	Grid 2-2		1	5.8	0.35	0.55	1.1
	Grid 3-3		1	5.8	0.35	0.55	1.1
	Grid 4-4		1	5.8	0.35	0.55	1.1
	Grid 5-5		1	5.8	0.35	0.55	1.1
	Grid 6-6		1	5.8	0.35	0.55	1.1
	Grid 7-7		1	5.8	0.35	0.55	1.1
	Grid A-A		1	33.1	0.35	0.55	6.4
	Grid B-B		1	23.6	0.35	0.55	4.5
	Second Floor Beam						
	Grid A-A		1	33.1	0.35	0.55	6.4
	Inclined Beam for Sitting Place						
	Grid 1-1		1	13.1	0.35	0.55	2.5
	Grid 2-2		1	13.1	0.35	0.55	2.5
	Grid 3-3		1	13.1	0.35	0.55	2.5

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block B

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Grid 4-4		1	13.1	0.35	0.55	2.5
	Grid 5-5		1	13.1	0.35	0.55	2.5
	Grid 6-6		1	13.1	0.35	0.55	2.5
	Grid 7-7		1	13.1	0.35	0.55	2.5
	Secondary Beam X-X Axis						
	Ground Floor		1	48.0	0.30	0.30	4.3
	First Floor		1	29.0	0.30	0.30	2.6
	For Inclined Beam		1	91.7	0.30	0.30	8.3
	Secondary Beam Y-Y Axis						
	Ground Floor		1	29.0	0.30	0.30	2.6
	Total of Beam						113.2
d	Slab						
	Ground Floor						
				A=	286	0.150	42.9
	Inclined Slab for Sitting Place						
				A=	360	0.175	63.0
	Total of slab						105.9
g	Bands						
	Ground Floor						
	Sill/Lintel Band		2	825.6	0.250	0.075	31.0
	First Floor						
	Sill/Lintel Band		2	197.5	0.250	0.075	7.4
	Second and Third Floor						
	Sill/Lintel Band		2	66.2	0.250	0.075	2.5
	Total Band						40.8
	TOTAL PCC						514.1
9	Steel reinforcement bar of Fe 415/500 grade including straightening, cleaning, cutting, bending, placing in position and binding with annealed binding wire all complete as per design, drawing and specification	MT					
	Total From BBS						80.4
10	Formwork, shuttering, centering with plywood and wooden post necessary propping, scaffolding, staging, supporting and removal etc all complete in perfect line and level as per design, drawing and specification	m²					
a	Foundation						
	Isolated footing(F1)		1	572.0		0.75	429.0
	Total footing						429.0
b	Column						

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block B

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Below Plinth						
	C1		18	2.1		1.70	64.3
	Ground Floor						
	C1		18	2.1		3.5	130.4
	First Floor						
	C1		14	2.1		2.5	72.0
	Second Floor						
	C1		7	2.1		2.5	36.0
	Third Floor						
	C1		0	2.1		5.8	0.0
	Total column						302.7
c	Beam						
	Foundation Plinth Beam						
	Grid 1-1		1	12.1		1.450	17.5
	Grid 2-2		1	5.8		1.450	8.4
	Grid 3-3		1	12.1		1.450	17.5
	Grid 4-4		1	5.8		1.450	8.4
	Grid 5-5		1	12.1		1.450	17.5
	Grid 6-6		1	5.8		1.450	8.4
	Grid 7-7		1	12.1		1.450	17.5
	Grid A-A		1	33.1		1.450	48.0
	Grid B-B		1	23.6		1.450	34.3
	Grid C-C		1	14.1		1.450	20.5
	Ground Floor Beam						
	Grid 1-1		1	12.1		1.450	17.5
	Grid 2-2		1	5.8		1.450	8.4
	Grid 3-3		1	12.1		1.450	17.5
	Grid 4-4		1	5.8		1.450	8.4
	Grid 5-5		1	12.1		1.450	17.5
	Grid 6-6		1	5.8		1.450	8.4
	Grid 7-7		1	12.1		1.450	17.5
	Grid A-A		1	33.1		1.450	48.0
	Grid B-B		1	23.6		1.450	34.3
	Grid C-C		1	14.1		1.450	20.5
	Grid D-D		0	98.0		1.450	0.0
	First Floor Beam						
	Grid 1-1		1	5.8		1.45	8.4
	Grid 2-2		1	5.8		1.45	8.4
	Grid 3-3		1	5.8		1.45	8.4
	Grid 4-4		1	5.8		1.45	8.4
	Grid 5-5		1	5.8		1.45	8.4
	Grid 6-6		1	5.8		1.45	8.4
	Grid 7-7		1	5.8		1.45	8.4
	Grid A-A		1	33.1		1.45	48.0
	Grid B-B		1	23.6		1.45	34.3
	Grid C-C		0	14.1		1.45	0.0

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block B

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Grid D-D		0	98.0		1.45	0.0
	Second Floor Beam						
	Grid A-A		1	33.1		1.45	48.0
	Inclined Beam for Sitting Place						
	Grid 1-1		1	13.1		1.45	19.0
	Grid 2-2		1	13.1		1.45	19.0
	Grid 3-3		1	13.1		1.45	19.0
	Grid 4-4		1	13.1		1.45	19.0
	Grid 5-5		1	13.1		1.45	19.0
	Grid 6-6		1	13.1		1.45	19.0
	Grid 7-7		1	13.1		1.45	19.0
	Secondary Beam X-X Axis						
	Ground Floor		1	48.0		0.9	43.2
	First Floor		1	29.0		0.9	26.1
	For Inclined Beam		1	91.7		0.9	82.5
	Secondary Beam Y-Y Axis						
	Ground Floor		1	29.0		0.9	26.1
	Total of Beam						896.3
d	Slab						
	Ground Floor						
				A=	286		286.0
				71.6		0.150	10.7
	Inclined Slab for Sitting Place						
				A=	336		336.0
				76.0		0.175	13.3
	Total slab						646.0
f	Bands						
	Ground Floor						
	Sill/Lintel Band		2	825.6		0.075	247.7
							247.7
	Total						2521.8
11	12.5mm thick cement sand plaster in (1:3) ratio on Ceiling with good finish including supplying of approved quality of cement & sand, chipping the concrete surface, wetting the surfaces & curing the work all complete as per the design, drawing and specification	m²					
	Ground Floor						
	Ceiling Area		1	286			286.0
	Total						286.0

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block B

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
12	12.5mm thick cement sand plaster in (1:4) ratio on wall with good finish including supplying of approved quality of cement & sand, racking the joint, Chipping the concrete surface, wetting of surfaces & curing the work all complete as per the design drawing and specification	m ²					
a	Wall						
	Ground Floor						
	Grid A-A		2	33.11		3.45	228.5
	Grid B-B		0	23.622		3.45	0.0
	Grid C-C		2	14.124		3.45	97.5
	Grid D-D		0	98.042		3.45	0.0
	First Floor						
	Grid A-A		2	33.11		2.45	162.2
	Grid B-B		2	23.622		2.45	115.7
	Grid C-C		0	14.124		2.45	0.0
	Grid D-D		0	98.042		2.45	0.0
	Second Floor						
	Grid A-A		2	33.11		2.45	162.2
	Parapet Wall		2	47.212		1.5	141.6
	Total						907.8
	Total wall						907.8
b	Column						
	Ground Floor						
	C1		18	2.1		3.45	130.4
	First Floor						
	C1		14	2.1		2.45	72.0
	Second Floor						
	C1		7	2.1		2.45	36.0
	Total column						238.5
c	Beam						
	First Floor Beam						
	Grid 1-1		1	5.8		1.5	16.8
	Grid 2-2		1	5.8		1.5	16.8
	Grid 3-3		1	5.8		1.5	16.8
	Grid 4-4		1	5.8		1.5	16.8
	Grid 5-5		1	5.8		1.5	16.8
	Grid 6-6		1	5.8		1.5	16.8
	Grid 7-7		1	5.8		1.5	16.8
	Grid A-A		1	33.1		1.5	96.0
	Grid B-B		1	23.6		1.5	68.5
	Grid C-C		0	14.1		1.5	0.0
	Grid D-D		0	98.0		1.5	0.0
	Second Floor Beam						
	Grid A-A		1	33.1		1.5	48.0

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block B

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Inclined Beam for Sitting Place						
	Grid 1-1		1	13.1		1.5	19.0
	Grid 2-2		1	13.1		1.5	19.0
	Grid 3-3		1	13.1		1.5	19.0
	Grid 4-4		1	13.1		1.5	19.0
	Grid 5-5		1	13.1		1.5	19.0
	Grid 6-6		1	13.1		1.5	19.0
	Grid 7-7		1	13.1		1.5	19.0
	Secondary Beam X-X Axis						
	Ground Floor		1	48.0		0.9	43.2
	First Floor		1	29.0		0.9	26.1
	For Inclined Beam		1	91.7		0.9	82.5
	Secondary Beam Y-Y Axis						
	Ground Floor		1	29.0		0.9	26.1
	Total of Beam						641.2
	Total						1787.4
13	Wall Putty	m2					
	Same as Plaster						1787.4
	Total						1787.4
14	Supplying and laying of 38mm thick PCC (1:2:4) with 20mm down aggregates all complete within room area	m²					
	Ground Floor		1	286.00			286.0
	Inclined Slab for Sitting Place		1	24.00	20.00		480.0
	Total						766.0
15	3 mm thick cement sand punning on floor, skirting, dado etc, including mixing laying and rubbing with steel trowel to a hard, smooth and shining surface and curing all complete as per drawing and specification	m²					
	Ground Floor						
	Ceiling Area		1	286			286.0
	Total						286.0
16	Two coats of water proof cement paint painting work (Distemper) in inner faces of building, within walls, floors, ceilings etc of approved brand and color as per instruction of site engineer	m²					
	Total Plaster minus Outer Painting						1400.0
	Total						1400.0
17	Two coats of weather proof (Apex) paint painting work outer faces of building, within walls, floors, ceilings etc of approved brand as per instruction of site engineer						
a	Wall						

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Detailed Quantity Estimate

Block: Stadium Block B

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Total Wall						
	Grid A-A		1	33.1		10.0	331.0
	Grid C-C		1	14.1		4.0	56.4
							387.4
	Total						387.4
18	Stainless steel railing work with 2" dia handrail and vertical post with 3 layers 1" dia horizontal pipes all complete	Rm					
			1	49.0			49.0
	Total						49.0

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Component: Compound Gate

Gate 3 nos

Quantity Estimate							
S.N	Description	No	Length (m)	Breadth (m)	Height (m)	Quantity	Remarks
A	Entry And Exit Gate 2 Nos						
1	Excavation (using hydraulic excavator) including disposal upto 10m and lift upto 1.5 m etc. , trimming bottom and side slopes in accordance with requirements of lines, grades and cross sections all complete as per specification.						
	Isolated Footing, F1	6	1.2	1.2	1.500	12.96	cu.m
	Isolated Footing, F2	6	2	2	1.500	36.00	cu.m
	Below Brick Walls	3	8.375	0.25	0.700	4.39	cu.m
					Total	53.35	cu.m
2	Stone soling work with levelling						
	At footing, F1	6	1.2	1.2	0.200	1.72	sq.m
	At footing, F2	6	2	2	0.200	4.80	sq.m
	Below Brick Walls	3	8.5	0.35	0.200	1.78	sq.m
					Total	8.30	cu.m
3	BACK FILING WORK						
	Backfilling for structures with ordinary soils in 15 cm thick layers using tampers (haulage distance 10 m) Without sprinkling water						
					30% of excavation work	16.01	cu.m
					Total	16.01	cu.m
4	1:2:4 P.C.C. work in foundation and floor including material collection & transportation upto 30m						
	At footing, F1	6	1.2	1.2	0.100	0.86	sq.m
	At footing, F2	6	2	2	0.100	2.40	sq.m
	Below Brick Walls	3	8.5	0.35	0.100	0.89	sq.m
					Total	4.15	cu.m
5	1:1.5:3 RCC work in super structure slab, beams,column and lintes etc with transportation upto 30 m						
	Isolated Footing, F1	6	1.2	1.2	0.400	3.45	cu.m
	Isolated Footing, F2	6	2	2	0.400	9.60	cu.m
	Tie Beam	3	8.5	0.23	0.230	1.34	cu.m
	Column, C1	6	0.23	0.23	3.530	1.12	cu.m
	Column, C2	6	0.45	0.45	6.500	7.89	cu.m
	Beam at lower projection	6	1	0.23	0.230	0.31	cu.m
		6	1	0.45	0.230	0.62	cu.m
	Beam at upper Projection	6	1	0.45	0.230	0.62	cu.m
	Top Slab Band at Tie Beam section	3	1	10.01	0.125	3.75	cu.m
	Top Slab Band at lower Beam section	6	1	3.09	0.125	2.31	cu.m
	Top Slab Band at Upper Beam section	3	1	7.4	0.125	2.77	cu.m
	Slanted slab at thelower portion	6	2.55	0.67	0.100	1.02	sq.m.
	Slanted slab at the upper portion	3	8.5	0.67	0.100	1.70	sq.m.
	Lintel Band	24	1	0.45	0.075	0.81	cu.m
					Total	37.31	cu.m

	Form work for beams, slab and column in structure including, screening, fitting, oiling, dismantling, removing and transportation up to 30m						
6	Isolated Footing, F1	6	4		0.400	9.60	sq.m.
	Isolated Footing, F2	6	8		0.400	19.20	sq.m.
	Tie Beam	3	8.5		0.440	11.22	sq.m.
	Column, C1	6	0.92		0.700	3.86	sq.m.
	Column, C2	6	1.8		0.485	5.23	sq.m.
	Beam at lower projection	6	1		0.440	2.64	sq.m.
		6	1		0.670	4.02	sq.m.
	Beam at upper Projection	6	1		0.670	4.02	sq.m.
	Top Slab Band at Tie Beam section	3	1	10.01		30.03	sq.m.
	Top Slab Band at lower Beam section	6	1	3.09		18.54	sq.m.
	Top Slab Band at Upper Beam section	3	1	7.4		22.20	sq.m.
	Slanted slab at the lower portion	6	2.55	0.67		10.25	sq.m.
	Slanted slab at the upper portion	3	8.5	0.67		17.08	sq.m.
	Lintel Band	24	1	0.45		10.80	sq.m.
					Total	168.69	sq.m.
7	Brick work in 1:4 cem mortar above Ground Floor using machine made brick & including 30m transportation						
	At footing from GL to PL	3	1	0.25	0.625	0.46	cu.m
	Brickwall at left and right Side	6	0.85	1	2.6	13.26	cu.m
	Deduction					0.00	cu.m
	Column above Ground Level	6	0.23	0.23	2.600	-0.82	cu.m
	Beam at lower projection	12	1	0.23	0.011	-0.02	cu.m
	Tie Beam at lower projection	12	0.85	0.23	0.100	-0.23	cu.m
	Brickwall at left and right Side	3	0.85	1	2.6	6.63	cu.m
		3	0.85	1	2.675	6.82	cu.m
		3	0.85	1	0.65	1.65	cu.m
	Deduction						
	Column above Ground Level	6	0.45	0.45	2.600	-3.15	cu.m
	Beam at lower projection	24	1	0.23	0.100	-0.55	cu.m
	Tie Beam at lower projection	24	0.85	0.23	0.100	-0.46	cu.m
					Total	23.59	cu.m
8	Curtil, bent up, binding of MS bars according to the drawing for RCC and its transportation up to 30m						
	From BBS					3.85	MT
9	12.5mm 1:4 cement sand plaster works						
	Brickworks						
	Brickwall at left and right Side	3	0.85		2.6	6.63	sq.m
		6		1	2.6	15.60	sq.m
	Brickwall at left and right Side	3	0.85		2.6	6.63	sq.m
		6		1	2.6	15.60	sq.m
		6	0.85		2.675	13.64	sq.m
		6		1	2.675	16.05	sq.m
		6	0.85		0.65	3.31	sq.m
		6		1	0.65	3.90	sq.m
					Total	81.36	sq.m
10	Gate						
	Small Gate	6	1.85		1.000	11.10	sq.m
	Big Gate	3	2.4		2.800	20.16	sq.m
					Total	31.26	sq.m

Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province

Component: Compound Wall

Quantity Estimate							
S.N	Description	No	Length (m)	Breadth (m)	Height (m)	Quantity	Remarks
A	Compound Wall 53m length						
1	Excavation (using hydraulic excavator) including disposal upto 10m and lift upto 1.5 m etc. , trimming bottom and side slopes in accordance with requirements of lines, grades and cross sections all complete as per specification.						
	Isolated Footing	18	0.9	0.9	1.000	14.58	cu.m
	Below Brick Walls	1	47.60	0.9	0.700	29.98	cu.m
	Excavation for land preparation	1				30830	cu.m
						Total	30875 cu.m
2	Stone Soling in foundation and floor including sand filling in joints, leveling, ramming etc. all complete as per drawing, specification & instructions of engineer all complete.						
	At footing	18	0.9	0.9	0.100	1.45	cu.m
	Below Brick Walls	1	47.60	0.9	0.100	4.28	cu.m
						Total	5.73 cu.m
3	BACK FILING WORK						
	Backfilling for structures with ordinary soils in 15 cm thick layers using tampers (haulage distance 10 m) Without sprinkling water					30% of excavation work	13.37 cu.m
	Excavation for land preparation					57358	cu.m
						Total	57371 cu.m
4	1:2:4 P.C.C. work in foundation and floor including material collection & transportation upto 30m						
	Isolated Footing	18	0.9	0.9	0.075	1.09	cu.m
	Below Tie Beam	1	47.60	0.9	0.075	3.21	cu.m
	Concrete Coping on top of brick wall	1	47.60	0.25	0.025	0.29	cu.m
						Total	4.59 cu.m
5	1:1.5:3 RCC work in super structure slab, beams,column and lintes etc with transportation upto 30 m						
	Isolated Footing	18	0.8	0.8	0.300	3.45	cu.m
	Tie Beam	1	47.60	0.25	0.250	2.97	cu.m
	Column upto Tie Beam	18	0.25	0.25	0.700	0.78	cu.m
	Column above Ground Level	18	0.25	0.25	2.100	2.36	cu.m
	Top Band above Column	1	47.60	0.25	0.075	0.89	cu.m
	Top Band above Walls	1	47.60	0.25	0.075	0.89	cu.m
	Lintel Band	1	47.60	0.25	0.075	0.89	cu.m
						Total	12.23 cu.m
6	Form work for beams, slab and column in structure including, screening, fitting, oiling, dismantling, removing and transportation up to 30m						
	Isolated Footing	18	3.2	0.3		17.28	sq.m.
	Tie Beam	1	47.60	0.5		23.80	sq.m.
	Column upto Ground Level	18	1		0.700	12.60	sq.m.
	Column above Ground Level	18	1		2.100	37.80	sq.m.
	Top Band above Column	1	47.60		0.150	7.14	sq.m.
	Top Band above Walls	1	47.60		0.150	7.14	sq.m.
	Lintel Band	1	47.60		0.150	7.14	sq.m.
						Total	112.9 sq.m.
7	Brick work in 1:4 cem mortar above Ground Floor using machine made brick & including 30m trasportation						
	At footing from GL to PL	1	47.60	0.25	0.625	7.43	cu.m
	Below Top Band	1	47.60	0.25	1.000	11.90	cu.m
	Above Top Band	18	0.45	0.25	1.500	3.03	cu.m
	Deductions						

	Tie Beam	1	47.60	0.25	0.250	-2.97	cu.m
	Lintel Band	1	47.60	0.25	0.075	-0.89	cu.m
					Total	26.22	cu.m
8	Curtail, bent up, binding of MS bars according to the drawing for RCC and its transportation up to 30m						
				From BBS		2.07	MT
						2.07	MT
9	Stainless steel railing work with 2" dia handrail and vertical post with 3 layers 1" dia horizontal pipes all complete						
	Railing	1	47.60			47.60	rm
					Total	47.60	rm
10	12.5mm 1:4 cement sand plaster works						
	Brickworks						
	Below Top Band	2	47.60		1.000	95.20	Sq.m
	Above Top Band	36	0.45		1.500	24.30	sq.m
					Total	119.5	sq.m
11	Iron Post at road side for blocking ball to go outside boundary wall						
	Brickworks				kg/m		
	Iron Post ISMC 150	10	3.00		17.700	531.00	kg
					Total	531.0	sq.m
12	Nylon Net	1	3		50.000	150.00	sq.m
					Total	150.0	sq.m
13	Score Board LED 4m*3m	1	4		3.000	12.00	sq.m
					Total	12.0	sq.m
14	Advertisement Board LED 50m*3m	1	50		3.000	150.00	sq.m
					Total	150.0	sq.m

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Detailed Quantity Estimate

Block: Covered Hall

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
A	CIVIL WORK						
	EARTHWORK						
1	Site clearance before and after completion of work including desposing the remaining construction materials & plants & making the site in working condition all complete as per drawing and specification	m ²	1.00	30.00	10.00		300.00
	Total						300.00
2	E/W in excavation for preparation of site and foundation work all complete	m ³					
	E/W excavation of foundation in BM soil						
a	Footings						
	Isolated Footing F1		18.00	2.00	2.00	1.50	108.00
	Toe Wall		2.00	48.61	0.61	0.61	36.18
	Total						144.18
3	Earth Work in Filling	m ³					
	Filling work within foundation area					40% of foundation work	57.67
	Total						57.67
4	Stone soling work with levelling	m ³					
a	Footings						
	Isolated Footing F1		18.00	1.50	1.50	0.20	8.10
	Toe Wall		2.00	66.61	0.61	0.20	16.25
	Total	m ³					24.35
5	First class local chimney made brick work in cement sand mortar(1:4) in foundation in perfect line and level including wetting the brick, packing the joints and curing all types of works as per specification and instruction by Engineer	m ³					
a	Below Plinth Level						
	Grid A-A, B-B		2.00	24.21	0.46	0.13	2.90
			2.00	24.21	0.36	0.13	2.27
			2.00	24.21	0.23	0.28	3.06
	Grid 1-1,7-7		2.00	9.20	0.46	0.13	1.10
			2.00	9.20	0.36	0.13	0.86
			2.00	9.20	0.23	0.28	1.16
	Wall below sitting area		2.00	6.50	0.46	0.13	0.78
			2.00	6.50	0.36	0.13	0.61
			2.00	6.50	0.23	0.28	0.82
	Grid2-2		2.00	1.70	0.46	0.13	0.20
			2.00	1.70	0.36	0.13	0.16
			2.00	1.70	0.23	0.28	0.22
	Between Grid 1-2-A-B		2.00	5.85	0.46	0.13	0.70
			2.00	5.85	0.36	0.13	0.55
			2.00	5.85	0.23	0.28	0.74
	Stair to sitting area		2.00	2.55	0.46	0.13	0.30

Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province

Detailed Quantity Estimate

Block: Covered Hall

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
			2.00	2.55	0.36	0.13	0.24
			2.00	2.55	0.23	0.28	0.32
	Total						16.99
6	Supplying and fixing sandwich puff brick wall panel (width 950mm) & 100mm thick coloured both side	m³					
	Ground Floor						
	Grid A-A, B-B		2.00	24.21		6.70	324.41
	Grid 1-1,7-7		2.00	9.20		6.70	123.28
	Wall below sitting area		2.00	6.50		0.90	11.70
	Stair to sitting area		2.00	1.46			2.93
	Deduction of openings						
	CG		1.00	1.50		2.70	4.05
	D		2.00	0.90		2.10	3.78
	SD		2.00	0.75		1.50	2.25
	W		8.00	2.50		1.50	30.00
	W1		2.00	1.50		1.80	5.40
	W2		4.00	0.90		0.90	3.24
	W3		5.00	0.90		1.80	8.10
	V		12.00	1.75		0.60	12.60
	V1		1.00	4.80		0.90	4.32
	Total						382.28
7	Supplying, making, fixing of 91mm thick exterior with full height of partition with fibre cement board						
	Grid2-2		2.00	1.70		3.00	10.20
	Between Grid 1-2-A-B		1.00	8.72		3.00	26.16
	Deduction of openings						
	D1		3.00	0.75		2.10	4.73
	Total						31.64
8	First class local chimney made brick work in cement sand mortar(1:4) in superstructure in perfect line and level including wetting the brick, packing the joints and curing all types of works as per specification and instruction by Engineer						
	Toilet Wall		1.00	2.98		3.00	8.94
	Deduction of openings						
	D1		1.00	0.75		2.10	1.58
	Total						7.37
9	Plain cement concret PCC M10, (1:3:6) work in foundation and floors with cement,sand and crussed aggregate of 10 mm to 38mm gauge including mixing with mixtere machin & compaction by vibrator ,laying in line & level with curing all type of works complete as per specification & instruction	m³					
a	Footings						
	Isolated Footing F1		18.00	1.50	1.50	0.08	3.04

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Detailed Quantity Estimate

Block: Covered Hall

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Toe Wall		2.00	66.61	0.61	0.08	6.09
	Total						9.13
10	Plain cement concret PCC M15, (1:2:4) work in foundation and floors with cement,sand and crussed aggregate of 10 mm to 38mm gauge including mixing with mixtere machin & compaction by vibrator ,laying in line & level with curing all type of works complete as per specification &instruction	m³					
	Entry Stair		1.00	27.27		0.15	4.09
	Stage		1.00	23.75		0.30	7.13
	Stage Stair		2.00	0.68		0.15	0.20
	Total						11.42
11	Plain cement Concrete (PCC) in 1:1:2 ratio for RCC works in column, beam, slab etc. with approved quality of cement, sand and stone aggregate including mixing, laying, compacting and curing etc all complete as per design, drawing and specification	m³					
a	Foundation						
	Isolated Footing F1		18.00	1.50	1.50	0.30	12.15
	Total footing						12.15
b	Column						
	Below Plinth						
	C		16.00	0.40	0.40	1.65	4.22
	c1		2.00	0.35	0.35	1.65	0.40
	Ground Floor						
	C1		2.00	0.35	0.35	3.00	0.74
	Total of column						5.36
c	Beam						
	Foundation and Plinth Beam						
	Grid A-A, B-B		4.00	24.21	0.23	0.30	6.68
	Grid 1-1,7-7		4.00	9.20	0.23	0.30	2.54
	Entry Stair		2.00	3.30	0.23	0.30	0.46
	Total of Beam						9.68
d	Sitting Place						
	Ground Floor						

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Detailed Quantity Estimate

Block: Covered Hall

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Flight		2.00	1.42	0.45	0.13	0.16
	Landing		2.00	0.90	0.45	0.13	0.10
	Steps		8.00	0.45	0.30	0.13	0.07
	Slab to cover store for sitting area		2.00	3.90	1.00	0.13	0.49
			2.00	3.90	1.00	0.13	0.49
			2.00	3.90	1.00	0.13	0.49
			8.00	3.90	0.40	0.13	0.78
	Total						2.57
	TOTAL PCC						29.76
12	Steel reinforcement bar of Fe 415/500 grade including straightening, cleaning, cutting, bending, placing in position and binding with annealed binding wire all complete as per design, drawing and specification	ton					
	Total From BBS						4.12
13	Formwork, shuttering, centering with plywood and wooden post necessary propping, scaffolding, staging, supporting and removal etc all complete in perfect line and level as per design, drawing and specification	m ²					
a	Foundation						
	Isolated Footing F1		18.00	8.00		0.30	43.20
	Total footing						43.20
b	Column						
	Below Plinth						
	C		16.00	1.60		1.65	42.24
	c1		2.00	1.40		1.65	4.62
	Ground Floor						
	C1		2.00	1.40		3.00	8.40
	Total column						55.26
c	Beam						
	Foundation and Plinth Beam						
	Grid A-A, B-B		8.00	24.21		0.60	116.21
	Grid 1-1,7-7		8.00	9.20		0.60	44.16
	Entry Stair		2.00	3.30		0.60	3.96
	Total of Beam						164.33
d	Sitting Place						
	Ground Floor						

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Detailed Quantity Estimate

Block: Covered Hall

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Flight		2.00	1.42	0.45		1.28
	Landing		2.00	0.90	0.45		0.81
	Steps		8.00	0.45	0.30		0.54
	Slab to cover store for sitting area		2.00	4.90		0.13	1.23
			2.00	4.90		0.13	1.23
			2.00	4.90		0.13	1.23
			8.00	4.70		0.13	4.70
	Total						11.00
	Total Formwork						273.79
14	12.5mm thick cement sand plaster in (1:4) ratio on wall with good finish including supplying of approved quality of cement & sand, racking the joint, Chipping the concrete surface, wetting of surfaces & curing the work all complete as per the design drawing and specification	m ²					
a	Wall						
	Ground Floor						
	Grid A-A, B-B		2.00	24.21		0.45	21.79
	Grid 1-1,7-7		2.00	9.20		0.45	8.28
	Wall below sitting area		2.00	6.50		0.45	5.85
	Grid2-2		2.00	1.70		0.45	1.53
	Between Grid 1-2-A-B		2.00	5.85		0.45	5.27
	Stair to sitting area		2.00	1.46		0.45	1.32
	Toilet Wall		2.00	2.98		3.00	17.88
	Total						61.91
	Total wall						61.91
b	Column						
	Below Plinth						
	C		16.00	1.60		0.45	11.52
	c1		2.00	1.40		0.45	1.26
	Ground Floor						
	C1		2.00	1.40		3.00	8.40
	Total column						21.18
c	Beam						
	Foundation and Plinth Beam						
	Grid A-A, B-B		2.00	24.21		0.53	25.66
	Grid 1-1,7-7		2.00	9.20		0.53	9.75
	Entry Stair		1.00	3.30		0.53	1.75
	Total Beam						37.16
d	Sitting Place						
	Ground Floor						

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Detailed Quantity Estimate

Block: Covered Hall

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Flight		2.00	1.42	0.45		1.28
			1.00	1.42		0.13	0.18
	Landing		2.00	0.90	0.45		0.81
	Steps		8.00	0.45	0.45		1.62
	Slab to cover store for sitting area		2.00	4.90		0.13	1.23
			1.00	3.90	1.00		3.90
			2.00	4.90		0.13	1.23
			1.00	3.90	1.00		3.90
			2.00	4.90		0.13	1.23
			1.00	3.90	1.00		3.90
			8.00	4.70		0.13	4.70
			8.00	3.90	0.40		12.48
	Total of Sitting Place						36.44
	Entry Stair		1.00	16.77			16.77
	Stage		1.00	23.75			23.75
	Stage Stair		2.00	0.68			1.35
	Total						198.56
15	38 mm th. Plain Cement Concrete (1:2:4) Screeding for flooring all complete as per speciications and instruction.	m ²					
	Room		1.00	231.07			231.07
	Total						231.07
16	3 mm thick cement sand punning on floor, skriting, dado etc, including mixing laying and rubbing with steel trowel to a hard, smooth and shining surface and curing all complete as per drawing and specification	m ²					
	Ground Floor						
	Room		1.00	240.36			240.36
	Total						240.36
17	Two coats of water proof cement paint painting work (Distemper) in inner faces of building, within walls, floors, ceilings etc of approved brand and color as per instruction of site engineer	m ²					
a	Wall						
	Ground Floor						
	Grid A-A, B-B		2.00	24.21		0.45	21.79
	Grid 1-1,7-7		2.00	9.20		0.45	8.28
	Wall below sitting area		2.00	6.50		0.45	5.85
	Grid2-2		2.00	1.70		0.45	1.53
	Between Grid 1-2-A-B		2.00	5.85		0.45	5.27
	Stair to sitting area		2.00	1.46		0.45	1.32

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Detailed Quantity Estimate

Block: Covered Hall

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Toilet Wall		2.00	2.98		3.00	17.88
	Total						61.91
	Total Wall						61.91
b	Column						
	Below Plinth						
	C		16.00	1.60		0.45	11.52
	c1		2.00	1.40		0.45	1.26
	Ground Floor						
	C1		2.00	1.40		3.00	8.40
	Total column						21.18
c	Beam						
	Foundation and Plinth Beam						
	Grid A-A, B-B		2.00	24.21		0.53	25.66
	Grid 1-1,7-7		2.00	9.20		0.53	9.75
	Entry Stair		1.00	3.30		0.53	1.75
	Total Beam						37.16
	Total painting						120.25
18	supplying, fixing of Channel Gate	m2					
	CG		1.00	1.50		2.70	4.05
	Total						4.05
19	Supply and installation of Gypsum Board 12mm thick in false ceiling with hooks, connectors strips, etc. all complete as per drawings, specifications and instruction of site-engineer	m2					
	Toilet and Store room near stage		2.00	4.30	1.70		14.62
	entry stair		1.00	3.30	2.00		6.60
							21.22
20	Casement door of almunium section in naturally anodized colour section size (100*38*1.3)mm and 5 mm glass						
	D		2.00	0.90		2.10	3.78
	D1		4.00	0.75		2.10	6.30
							10.08
21	Almunium sliding windows section (10.1*45*1.50) mm with 5 mm glass						
	SD		2.00	0.75		1.50	2.25
							2.25

Suryabinayak Municipality
Office of Municipal Executive
 Katunje, Bhaktapur
 Bagmati Province

Detailed Quantity Estimate

Block: Covered Hall

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
22	Aluminium sliding windows section (10.1*45*1.50) mm with 5 mm glass						
	W		8.00	2.50		1.50	30.00
	W1		2.00	1.50		1.80	5.40
	W2		4.00	0.90		0.90	3.24
	W3		5.00	0.90		1.80	8.10
	V		12.00	1.75		0.60	12.60
	V1		1.00	4.80		0.90	4.32
							63.66
23	Steel section used as column						
	channel (2-ismc 150mm) (17.7kg/m)		28.00	6.70		17.70	3320.52
	plate to join channel(200*10mm)		28.00	6.70		15.70	2945.32
							6265.84
24	Steel sections used as member of truss						
	For Grid 1-1, 7-7				Wt.		
	ISNB 100M(Rafter)	KG	2.00	12.20	Kg/m	11.48	280.16
	ISNB 50M(Vertical Member)	KG	2.00	5.03	Kg/m	15.84	159.32
	ISNB 50M(inclined Member)	KG	2.00	5.03	Kg/m	18.15	182.55
	ISNB 150M(Horizontal Member)	KG	2.00	19.40	Kg/m	10.56	409.53
	ISNB 110M (Purlin)	KG	13.00	14.50	Kg/m	24.21	4563.59
	For Remaining Grids						
	ISNB 100M(Rafter)	KG	5.00	12.20	Kg/m	11.48	700.40
	ISNB 50M(Vertical Member)	KG	5.00	5.03	Kg/m	15.84	398.30
	ISNB 50M(inclined Member)	KG	5.00	5.03	Kg/m	18.15	456.37
	ISNB 175M (Horizontal Member)	KG	5.00	25.20	Kg/m	10.56	1329.93
	Total						8480.15
25	Cgi Sheet	m2	1.00	11.48	25.34		290.95
26	Cgi Ridge	rm	1.00	25.34	1.00		25.34

Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province
Truss Calculation

Project- Preparation of Detailed Project Report of Construction of Stadium of Suryabinayak

Location- Suryabinayak Municipality , Bhaktapur

S.N.	Description	Unit	No.	Length (m)	Breadth	Height	Total Length (m)	Unit Wt. (kg/m)	Total Weight (kg)
					(m)	(m)			
1	Supplying and fitting of iron truss works with red oxide paint as per approved drawing ,specification and instruction of								
a	D-ISA 100*65*8	kg	7	2.23			15.61	9.90	69.3
b	D-ISA 90*60*8	kg	7	6.90			48.27	8.90	62.3
c	D-ISA 75*45*8	kg	7	35.49			248.41	7.40	51.8
d	D-ISA 60*40*5	kg	7	24			167.74	3.70	25.9
e	Purlin ISMC 150	kg	10	32.53			325.25	17.70	177.0
f	Base plate 200*175	kg	7	0.0004			0.0029	7,850	23.1
g	Steel Rod 40 dia	kg	7	5.84			40.88	9.85	402.7
h	Connection work @ 5%								34.0
Total truss work									846.1
									Total Quantity
2	26 gauge heavy CGI sheet fixing on roof including all accessories	Sqm							
a	Main Block		1	227.68					227.68
	Total								227.68

**Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province**

Detailed Quantity Estimate

Block: Ticket Counter

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
A	CIVIL WORK						
	EARTHWORK						
1	Earthwork in excavation in soft clay and silty soil including 10 m lead and 1.5m lift	m³					
a	Footings						
	Isolated footing(F1)		4	2.00	2.00	1.5	24.0
	sub-Total						24.0
b	Toe wall						
	Grid 1-1		1	4.1	0.6	0.5	1.215
	Grid 2-2		1	4.1	0.6	0.5	1.215
	Grid A-A		1	4.1	0.6	0.5	1.215
	Grid B-B		1	4.1	0.6	0.5	1.215
	sub-Total						4.860
	Total						28.9
2	Earth Work in Filling	m³					
	Filling work within foundation area		40% of foundation work				11.5
	Total						11.5
3	Stone soling work with levelling	m³					
a	Footings						
	Isolated footing(F1)		4	1.5	1.50	0.200	1.8
	sub-Total						1.8
	Toe wall						
	Grid 1-1		1	4.1	0.2	0.6	0.5
	Grid 2-2		1	4.1	0.2	0.6	0.5
	Grid A-A		1	4.1	0.2	0.6	0.5
	Grid B-B		1	4.1	0.2	0.6	0.5
	sub-Total						1.9
c	Room						
	Room		1	3.8	4	0.200	2.8
	sub-Total						2.8
	Total	m³					6.6
4	1st Class Chimney Bhatta (Terai) Brickwork in cement (Nepal Standard OPC Cement) sand mortar in 1:4 sub-structure, super -structure (Ground Floor) with 1 st class bricks in perfect line and level including wetting the bricks, packing the joints and curing the work in all types and thickness of walls, column etc. as per instruction & specification	m³					
a	Below Plinth Level						
	Grid 1-1		1	4.05	0.23	1.1	1.0
	Grid 2-2		1	4.05	0.23	1.1	1.0
	Grid A-A		1	4.05	0.23	1.1	1.0

**Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province**

Detailed Quantity Estimate

Block: Ticket Counter

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Grid B-B		1	4.05	0.23	1.1	1.0
	Total						3.9
5	1st Class Chimney Bhatta (Terai) Brickwork in cement (Nepal Standard OPC Cement) sand mortar in 1:4 , super -structure (First Floor,Second Floor & Third Floor) with 1 st class bricks in perfect line and level including wetting the bricks, packing the joints and curing the work in all types and thickness of walls, column etc. as per instruction & specification complete work	m³					
	Ground Floor						
	Grid 1-1		1	4.1	0.25	3.00	3.0
	Grid 2-2		1	4.1	0.25	3.00	3.0
	Grid A-A		1	4.1	0.25	3.00	3.0
	Grid B-B		1	4.1	0.25	3.00	3.0
	Deduction of openings						
	D1		1	1.0	0.23	2.1	0.5
	D2		1	0.8	0.23	1.8	0.3
	W		1	1.8	0.23	1.2	0.5
	W1		2	1.2	0.23	1.2	0.7
	V		1	0.6	0.23	0.6	0.1
	Total						10.6
6	Plain cement concret PCC M10, (1:3:6) work in foundation and floors with cement,sand and crussed aggregate of 10 mm to 38mm gauge including mixing with mixtere machin & compaction by vibrator ,laying in line & level with curing all type of works complete as per specification & instruction	m³					
a	Footings						
	Isolated footing(F1)		4	1.5	1.5	0.075	0.7
	Toe wall						
	Grid 1-1		1	4.1	0.6	0.075	0.2
	Grid 2-2		1	4.1	0.6	0.075	0.2
	Grid A-A		1	4.1	0.6	0.075	0.2
	Grid B-B		1	4.1	0.6	0.075	0.2
	Total						1.4
7	Plain cement Concrete (PCC) in 1:1.5:3 ratio for RCC works in column, beam, slab etc. with approved quality of cement, sand and stone aggregate including mixing, laying, compacting and curing etc all complete as per design drawing and specification	m³					
a	Foundation						

**Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province**

Detailed Quantity Estimate

Block: Ticket Counter

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
9	Formwork, shuttering, centering with plywood and wooden post necessary propping, scaffolding, staging, supporting and removal etc all complete in perfect line and level as per design, drawing and specification	m ²					
a	Foundation						
	Isolated footing(F1)		4	6.0		0.30	7.2
	Total footing						7.2
b	Column						
	Below Plinth						
	C1		4	1.2		1.45	7.0
	Ground Floor						
	C1		4	1.2		2.6	12.5
	Total column						19.4
c	Beam						
	Foundation tie Beam						
	Grid 1-1		1	4.1		0.46	1.9
	Grid 2-2		1	4.1		0.46	1.9
	Grid A-A		1	4.1		0.46	1.9
	Grid B-B		1	4.1		0.46	1.9
	Foundation Plinth Beam						
	Grid 1-1		1	4.1		0.46	1.9
	Grid 2-2		1	4.1		0.46	1.9
	Grid A-A		1	4.1		0.46	1.9
	Grid B-B		1	4.1		0.46	1.9
	Ground Floor						
	Grid 1-1		1	4.1		1.15	4.7
	Grid 2-2		1	4.1		1.15	4.7
	Grid A-A		1	4.1		1.15	4.7
	Grid B-B		1	4.1		1.15	4.7
	Total of Beam						33.5
d	Slab						
	Ground Floor						
				A=	16		16.4
	Total slab						16.4
	Total						76.6

**Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province**

Detailed Quantity Estimate

Block: Ticket Counter

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
10	12.5mm thick cement sand plaster in (1:3) ratio on Ceiling with good finish including supplying of approved quality of cement & sand, chipping the concrete surface, wetting the surfaces & curing the work all complete as per the design, drawing and specification	m ²					
	Ground Floor						
	Room		1	3.75	3.75		14.1
	Total						14.1
11	12.5mm thick cement sand plaster in (1:4) ratio on wall with good finish including supplying of approved quality of cement & sand, racking the joint, Chipping the concrete surface, wetting of surfaces & curing the work all complete as per the design, drawing and specification	m ²					
a	Wall						
	Ground Floor						
	Grid 1-1		2	4.1		3	24.3
	Grid 2-2		2	4.1		3	24.3
	Grid A-A		2	4.1		3	24.3
	Grid B-B		2	4.1		3	24.3
	Total						97.2
	Deduction of openings						
		D1	1	1.0		2.1	2.0
		D2	1	0.8		1.8	1.4
		W	1	1.8		1.2	2.2
		W1	2	1.2		1.2	2.9
		V	1	0.6		0.6	0.4
	Total opening						8.8
	Total wall						88.4
b	Column						
	Ground Floor						
	C1		4	1.2		2.6	12.5
	Total column						12.5
c	Beam						
	Ground Floor						
	Grid 1-1		1	4.1		1.2	4.7
	Grid 2-2		1	4.1		1.2	4.7
	Grid A-A		1	4.1		1.2	4.7
	Grid B-B		1	4.1		1.2	4.7
	Total of Beam						18.6

**Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province**

Detailed Quantity Estimate

Block: Ticket Counter

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Total						119.5
12	Aluminium sliding windows section (10.1*45*1.50) mm with 5 mm glass	m ²					
	D1		1	0.98		2.10	2.0
	D2		1	0.75		1.80	1.4
	W		1	1.80		1.20	2.2
	W1		2	1.20		1.20	2.9
	V		1	0.60		0.60	0.4
	Total						8.8
13	Supplying and laying of 38mm thick PCC (1:2:4) with 20mm down aggregates all complete within room area	m ²					
	Room		1	3.75	3.75		14.1
	Total						14.1
14	3 mm thick cement sand punning on floor, skirting, dado etc, including mixing laying and rubbing with steel trowel to a hard, smooth and shining surface and curing all complete as per drawing and specification.	m ²					
	Ground Floor						
	Room		1	3.75	3.75		14.1
	Total						14.1
15	Two coats of water proof cement paint painting work (Distemper) in inner faces of building, within walls, floors, ceilings etc of approved brand and color as per instruction of site engineer	m ²					
a	Wall						
	Ground Floor						
	Grid 1-1		1	4.1		3	12.2
	Grid 2-2		1	4.1		3	12.2
	Grid A-A		1	4.1		3	12.2
	Grid B-B		1	4.1		3	12.2
	Total						48.6
16	Two coats of weather proof (Apex) paint painting work outer faces of building, within walls, floors, ceilings etc of approved brand as per instruction of site engineer						
a	Wall						
	Ground Floor						
	Grid A-A		1	4.1		3.0	12.2
	Grid c-c		1	4.1		3.0	12.2
	Grid 1-1		1	4.1		3.0	12.2
	Grid 2-2		1	4.1		3.0	12.2

**Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province**

Detailed Quantity Estimate

Block: Ticket Counter

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Total						43.2
17	Two coats of enamel Paint within doors / windows surfaces of approved color as per instructions	m ²					
	D1		1	0.975		2.1	2.0
	D2		1	0.75		1.8	1.4
	W		1	1.8		1.2	2.2
	W1		2	1.2		1.2	2.9
	V		1	0.6		0.6	0.4
	Total						8.8

**Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province**

Detailed Quantity Estimate

Block: Guard House

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
A	CIVIL WORK						
	EARTHWORK						
1	Earthwork in excavation in soft clay and silty soil including 10 m lead and 1.5m lift	m³					
a	Footings						
	Isolated footing(F1)		4	2.00	2.00	1.5	24.0
	sub-Total						24.0
b	Toe wall						
	Grid 1-1		1	4.1	0.6	0.5	1.215
	Grid 2-2		1	4.1	0.6	0.5	1.215
	Grid A-A		1	4.1	0.6	0.5	1.215
	Grid B-B		1	4.1	0.6	0.5	1.215
	sub-Total						4.860
	Total						28.9
2	Earth Work in Filling	m³					
	Filling work within foundation area		40% of foundation work				11.5
	Total						11.5
3	Stone soling work with levelling	m³					
a	Footings						
	Isolated footing(F1)		4	1.5	1.50	0.200	1.8
	sub-Total						1.8
	Toe wall						
	Grid 1-1		1	4.1	0.2	0.6	0.5
	Grid 2-2		1	4.1	0.2	0.6	0.5
	Grid A-A		1	4.1	0.2	0.6	0.5
	Grid B-B		1	4.1	0.2	0.6	0.5
	sub-Total						1.9
c	Room						
	Room		1	3.8	4	0.200	2.8
	sub-Total						2.8
	Total	m³					6.6
4	1st Class Chimney Bhatta (Terai) Brickwork in cement (Nepal Standard OPC Cement) sand mortar in 1:4 sub-structure, super -structure (Ground Floor) with 1 st class bricks in perfect line and level including wetting the bricks, packing the joints and curing the work in all types and thickness of walls, column etc. as per instruction & specification	m³					
a	Below Plinth Level						
	Grid 1-1		1	4.05	0.23	1.1	1.0
	Grid 2-2		1	4.05	0.23	1.1	1.0
	Grid A-A		1	4.05	0.23	1.1	1.0

**Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province**

Detailed Quantity Estimate

Block: Guard House

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Grid B-B		1	4.05	0.23	1.1	1.0
	Total						3.9
5	1st Class Chimney Bhatta (Terai) Brickwork in cement (Nepal Standard OPC Cement) sand mortar in 1:4 , super -structure (First Floor,Second Floor & Third Floor) with 1 st class bricks in perfect line and level including wetting the bricks, packing the joints and curing the work in all types and thickness of walls, column etc. as per instruction & specification complete work	m³					
	Ground Floor						
	Grid 1-1		1	4.1	0.25	3.00	3.0
	Grid 2-2		1	4.1	0.25	3.00	3.0
	Grid A-A		1	4.1	0.25	3.00	3.0
	Grid B-B		1	4.1	0.25	3.00	3.0
	Deduction of openings						
	D1		1	1.0	0.23	2.1	0.5
	D2		1	0.8	0.23	1.8	0.3
	W		1	1.8	0.23	1.2	0.5
	W1		2	1.2	0.23	1.2	0.7
	V		1	0.6	0.23	0.6	0.1
	Total						10.6
6	Plain cement concret PCC M10, (1:3:6) work in foundation and floors with cement,sand and crussed aggregate of 10 mm to 38mm gauge including mixing with mixtere machin & compaction by vibrator ,laying in line & level with curing all type of works complete as per specification & instruction	m³					
a	Footings						
	Isolated footing(F1)		4	1.5	1.5	0.075	0.7
	Toe wall						
	Grid 1-1		1	4.1	0.6	0.075	0.2
	Grid 2-2		1	4.1	0.6	0.075	0.2
	Grid A-A		1	4.1	0.6	0.075	0.2
	Grid B-B		1	4.1	0.6	0.075	0.2
	Total						1.4
7	Plain cement Concrete (PCC) in 1:1.5:3 ratio for RCC works in column, beam, slab etc. with approved quality of cement, sand and stone aggregate including mixing, laying, compacting and curing etc all complete as per design drawing and specification	m³					
a	Foundation						

**Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province**

Detailed Quantity Estimate

Block: Guard House

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
9	Formwork, shuttering, centering with plywood and wooden post necessary propping, scaffolding, staging, supporting and removal etc all complete in perfect line and level as per design, drawing and specification	m ²					
a	Foundation						
	Isolated footing(F1)		4	6.0		0.30	7.2
	Total footing						7.2
b	Column						
	Below Plinth						
	C1		4	1.2		1.45	7.0
	Ground Floor						
	C1		4	1.2		2.6	12.5
	Total column						19.4
c	Beam						
	Foundation tie Beam						
	Grid 1-1		1	4.1		0.46	1.9
	Grid 2-2		1	4.1		0.46	1.9
	Grid A-A		1	4.1		0.46	1.9
	Grid B-B		1	4.1		0.46	1.9
	Foundation Plinth Beam						
	Grid 1-1		1	4.1		0.46	1.9
	Grid 2-2		1	4.1		0.46	1.9
	Grid A-A		1	4.1		0.46	1.9
	Grid B-B		1	4.1		0.46	1.9
	Ground Floor						
	Grid 1-1		1	4.1		1.15	4.7
	Grid 2-2		1	4.1		1.15	4.7
	Grid A-A		1	4.1		1.15	4.7
	Grid B-B		1	4.1		1.15	4.7
	Total of Beam						33.5
d	Slab						
	Ground Floor						
				A=	16		16.4
	Total slab						16.4
	Total						76.6

**Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province**

Detailed Quantity Estimate

Block: Guard House

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
10	12.5mm thick cement sand plaster in (1:3) ratio on Ceiling with good finish including supplying of approved quality of cement & sand, chipping the concrete surface, wetting the surfaces & curing the work all complete as per the design, drawing and specification	m ²					
	Ground Floor						
	Room		1	3.75	3.75		14.1
	Total						14.1
11	12.5mm thick cement sand plaster in (1:4) ratio on wall with good finish including supplying of approved quality of cement & sand, racking the joint, Chipping the concrete surface, wetting of surfaces & curing the work all complete as per the design, drawing and specification	m ²					
a	Wall						
	Ground Floor						
	Grid 1-1		2	4.1		3	24.3
	Grid 2-2		2	4.1		3	24.3
	Grid A-A		2	4.1		3	24.3
	Grid B-B		2	4.1		3	24.3
	Total						97.2
	Deduction of openings						
		D1	1	1.0		2.1	2.0
		D2	1	0.8		1.8	1.4
		W	1	1.8		1.2	2.2
		W1	2	1.2		1.2	2.9
		V	1	0.6		0.6	0.4
	Total opening						8.8
	Total wall						88.4
b	Column						
	Ground Floor						
	C1		4	1.2		2.6	12.5
	Total column						12.5
c	Beam						
	Ground Floor						
	Grid 1-1		1	4.1		1.2	4.7
	Grid 2-2		1	4.1		1.2	4.7
	Grid A-A		1	4.1		1.2	4.7
	Grid B-B		1	4.1		1.2	4.7
	Total of Beam						18.6

**Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province**

Detailed Quantity Estimate

Block: Guard House

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Total						119.5
12	Aluminium sliding windows section (10.1*45*1.50) mm with 5 mm glass	m ²					
	D1		1	0.98		2.10	2.0
	D2		1	0.75		1.80	1.4
	W		1	1.80		1.20	2.2
	W1		2	1.20		1.20	2.9
	V		1	0.60		0.60	0.4
	Total						8.8
13	Supplying and laying of 38mm thick PCC (1:2:4) with 20mm down aggregates all complete within room area	m ²					
	Room		1	3.75	3.75		14.1
	Total						14.1
14	3 mm thick cement sand punning on floor, skriting, dado etc, including mixing laying and rubbing with steel trowel to a hard, smooth and shining surface and curing all complete as per drawing and specification.	m ²					
	Ground Floor						
	Room		1	3.75	3.75		14.1
	Total						14.1
15	Two coats of water proof cement paint painting work (Distemper) in inner faces of building, within walls, floors, ceilings etc of approved brand and color as per instruction of site engineer	m ²					
a	Wall						
	Ground Floor						
	Grid 1-1		1	4.1		3	12.2
	Grid 2-2		1	4.1		3	12.2
	Grid A-A		1	4.1		3	12.2
	Grid B-B		1	4.1		3	12.2
	Total						48.6
16	Two coats of weather proof (Apex) paint painting work outer faces of building, within walls, floors, ceilings etc of approved brand as per instruction of site engineer						
a	Wall						
	Ground Floor						
	Grid A-A		1	4.1		3.0	12.2
	Grid c-c		1	4.1		3.0	12.2
	Grid 1-1		1	4.1		3.0	12.2
	Grid 2-2		1	4.1		3.0	12.2

**Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province**

Detailed Quantity Estimate

Block: Guard House

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Total						43.2
17	Two coats of enamel Paint within doors / windows surfaces of approved color as per instructions	m ²					
		D1	1	0.975		2.1	2.0
		D2	1	0.75		1.8	1.4
		W	1	1.8		1.2	2.2
		W1	2	1.2		1.2	2.9
		V	1	0.6		0.6	0.4
	Total						8.8

Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province

Project- Preparation of Detailed Project Report of Construction of Stadium of Suryabinayak

Location- Suryabinayak Municipality , Bhaktapur

Job :-Provisional Sum

SN	Description of Items	No.	Length (m)	T.Lengt h (m)	Breadth (m)	Height (m)	Quantity	Total quantity	Unit	Rate	Amount	Remark
P	Provisional Sum											
P-1	Preparation of as built Architectural, Structure Sanitary & Electrical drawing as per instruction all complete.						-	1.000	job	75000.00	75,000.00	
		1					1.000	-			-	
P-2	(a) Insurance premium for the work, plant and materials damage for contract work for all risk including Riot, Strike, Damage, Malicious damage and Terrorism for contract work of 1.25 years + 1 year Maintenance period., (b) Insurance premium for the insurance of owner and consultant staff (named) Rs. 10,00,000.00 per person for 7 persons with unlimited number of occurrences for 1.25 years., (c) Insurance Premium for construction equipments and machines with value of Rs.300,000.00 for 2 years., (d) Insurance Premium for third party liability personal only per person Rs.2,00,000.00 for 8 persons for 1.25 years with unlimited number of occurrence.						-	1.000	PS	8357399.30	8,357,399.30	
		1					1.000	-			-	
P-3	Carrying out different laboratory tests of construction material like cement, rod, bricks, sand, aggregate, filling materials, concrete cubes etc. during construction work as per specification and direction.						-	1.000	job	87464.00	87,464.00	
		1					1.000				-	
P-4	Provide, erect and maintain project site notice boards (plane CGI sheet of 1mx1m mount with 1/2" black sq black iron pipe on its back with 2 number of 1.5" sq pipe post of 2 m above GL) as per instruction of Site engineer and specification all complete.							1.000	Ps	10000.00	10,000.00	
		1					1.000				-	
	Net Total :-									Total Amount	8,529,863.30	

Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province

Project- Preparation of Detailed Project Report of Construction of Stadium of Suryabinayak

Location- Suryabinayak Municipality , Bhaktapur

Job:-As built Drawing work

Detail Estimate of As built Drawing

S.no	Description	Quantity	unit	day	Total	Rate	Total amount (NR)	Remark
A	Manpower							
1	Engineer	3	no.	5	15	1648.00	24720.00	
3	Drafman (Sub-Engineer)	5	no.	6	30	1269.00	38070.00	
B	Others							
1	Print & document(3 nos hard cobby & 2 nos soft cobby)	1	Ls		1	10000.00	10000.00	
	Total						72790.00	
						say	75000.00	

Estimated By:-

Checked By:-

Approved BY:-

Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province

Project- Preparation of Detailed Project Report of Construction of Stadium of Suryabinayak

Location- Suryabinayak Municipality , Bhaktapur

Job:-Insurance Work

		691286724.15	20	1.67	2.67
Analysis for Insurance					
1	Insurance premium for the work, plant and materials damage for contract work for all risk including Riot,Strike, Damage,Malicious damage and Terrorism for contract work of for 1.25 years + 1 year Maintenance period.				
	Insurance with value	Rs. 3.03 per thousand	Rs	5,585,596.73	
	do for Terrorism	Rs. 1.49 per thousand	Rs	2,746,712.58	
	Premium		Rs	8,332,309.31	
	for stamp duty		Rs	10.00	
	Premium with stamp duty		Rs	8,332,319.31	
	VAT 13.00% of premium with stamp duty		Rs		
	Total Amount without VAT		Rs	8,332,319.31	
2	Insurance Premium for construction equipments and machines with value of Rs.5,00,000.00 for 1.25 years				
	Insurance premium of Rs. 5,00,000	Rs.2.03 per thousand	Rs	1691.67	
	Do for Terrorism	Rs.1.49 per thousand	Rs	1241.67	
	Premium		Rs	2933.33	
	For stamp duty		Rs	10.00	
	Premium with stamp duty		Rs	2943.33	
	VAT 13.00% of premium with stamp duty		Rs		
	Total Amount without VAT		Rs	2943.33	
3	Insurance Premium for property except the works , plants, Materials and equipment in connection with contract with Value of Rs. 10,00,000 for 1.25 years				
	Insurance Premium for property except the works , plants, Materials and equipment=Rs 10,00,000.00	Rs. 3.03 per thousand	Rs	5050.00	
	Do for Terrorism	Rs. 1.49 per thousand	Rs	2483.33	
	Premium		Rs	7533.33	
	For stamp duty		Rs	10.00	
	Premium with stamp duty		Rs	7543.33	
	VAT 13.00% of premium with stamp duty		Rs		
	Total Amount without VAT		Rs	7543.33	
4	Insurance premium for the insurance of employes Staff (4 Nos) and Contractor's staff (3 Nos) and others Rs. 5,00,000.00 per person for Unnamed 10 persons with unlimited number of occurrences for 1.25years				
	Personnel accident of 5,00,000.00 for 7	Rs.2.00 per thousand	Rs	11,666.66	
	Do for Terrorism	Rs.0.50 per thousand	Rs	2,916.66	
	Premium		Rs	14,583.32	
	For stamp duty		Rs	10.00	
	Premium with stamp duty		Rs	14,593.32	
	VAT 13.00% of premium with stamp duty		Rs		
	Total Amount without VAT		Rs	14,593.32	
	Total			8,357,399.30	

Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province

Project- Preparation of Detailed Project Report of Construction of Stadium of Suryabinayak

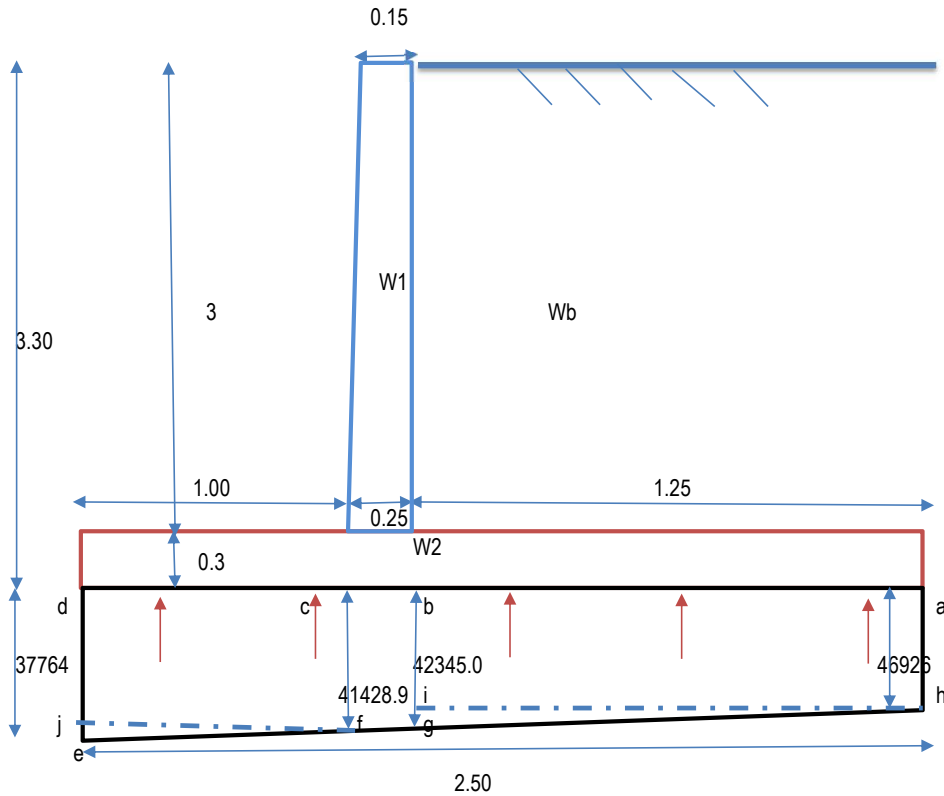
Location- Suryabinayak Municipality , Bhaktapur

Job:-Lab Test Work

ESTIMATE OF LAB TEST WORKS

S.N.	Description of Work	Quantity	Unit	Rate	Amount	Remark	Code
	Carrying out diferrent laboratory tests of construction material						
1	Concrete Test						
a	cubes or cylinder crushing	120.00	Nos	150.00	18000.00		
2	Brick Test						
a	Brick Crossing Test	16.00	Nos	100.00	1600.00		
b	Water Absortion Test	16.00	Nos	100.00	1600.00		
3	Aggregate Test						
a	Aggregate Crushing Value Test	8.00	Nos	489.00	3912.00		
b	Aggregate Impact Value	8.00	Nos	350.00	2800.00		
4	Sieve Analysis						
a	Sieve Analysis (Wet)	8.00	Nos	844.00	6752.00		
b	Sieve Analysis (Dry)	8.00	Nos	450.00	3600.00		
5	U.T.M. Tensile Strength Test		Nos				
a	8mm Ø	5.00	Nos	1200.00	6000.00		
b	10mm Ø	5.00	Nos	1200.00	6000.00		
c	12mm Ø	5.00	Nos	1200.00	6000.00		
d	16mm Ø	5.00	Nos	1200.00	6000.00		
e	20mm Ø	5.00	Nos	1500.00	7500.00		
f	25mm Ø	5.00	Nos	1500.00	7500.00		
6	Cement Test						
a	Cement mortar cube Crushing 3 Nos.	16.00	Nos	450.00	7200.00		
b	Intial setting & Final Setting	6.00	Nos	500.00	3000.00		
				Total	87,464.00		

DESIGN OF CANTILEVER RETAINING WALL L1



Given

Height of wall (H)	3 m
Safe Bearing Capacity of soil	120000 N/m ²
Angle of repose of soil	16.22°
Weight of soil	19230 N/m ³
Thickness of stem at top	150 mm
Thickness of base slab	300 mm

Use M20 Concrete and Fe 500 steel

Maxm bending moment per metre run of the wall(M)

$$M = Cp * \frac{\gamma h^3}{6} \quad \text{28845 Nm}$$

Ultimate moment(Mu) 43267.5 Nm

$$0.138 * f_{ck} * b d^2 = Mu * 1000 \quad \text{125 mm}$$

Effective cover to steel reinforcement 40 mm

Overall thickness of the stem 165 mm

Increase overall thickness by 30% for economical design

214.77

Adopt thickness of stem 250 mm

Actual effective depth 210 mm

Total height of the stem(H) 3.3 m

Width of base slab

0.5 H 1.65 m

0.7 H 2.31 m

Provide a base width of

2.50 m

Toe Projection

1/3 of base width 0.83 m
 Provide toe projection of 1.00 m

Stability calculation per meter run of the wall

	Load due to	Distance from heel	Moment about heel
W1	11250	1.35	15187.5
	3750	1.458	5468.75
W2	18750	1.25	23437.5
Wb	72112.5	0.625	45070.3125
Moment of lateral pressure			
	$C_p \cdot \frac{\gamma h^3}{6}$		38392.695
	105862.5		127556.76

Distance of point of application of the resultant force from the heel

Z 1.205 m
 Eccentricity (e,) Z-b/2 -0.045 m
 b/6 0.417 OK

External pressure intensity at the base(p)

$$p = \frac{W}{b} \left(1 \pm \frac{6e}{b}\right)$$

p_{max} 37764 N/m2
 p_{min} 46926 N/m2
 OK

Design of the Stem

Maxm bending moment

$$\frac{Mu}{bd^2} \quad 43267.5 \text{ Nm} \quad 0.981$$

Percentage of steel Pt= 0.240 %

Ast 504.14 mm2

Provide bars of	12.00 mm
Spacing	220.00 mm

Distribution steel

300 mm2	
Provide bars of	10.00 mm
Spacing	260.00 mm

Design of Toe Slab

	Upward pressure	Distance from C	Moment about C
cdjf	41428.9	0.50	20714.45
jfe	-1832.21	0.667	-1221.47
Deduct for weight of toe slab			
	7500.00	0.50	3750.00
	BM for toe slab		15743.0

Ultimate Moment(Mu) 23614.47 Nm
 Effective cover to steel 60.00 mm
 Effective depth (d.) 240.00 mm

$$\frac{Mu}{bd^2} \quad 0.410$$

Percentage of steel Pt= 0.10 %
 0.2 %

Ast 480.00 mm2

Provide bars of	12.00 mm
Spacing	230.00 mm

Adopt220mm

Distribution steel

288 mm²

Provide bars of	10.00 mm
Spacing	270 mm

Design of heel slab

Consider a 1m wide strip of the heel slab near the heel end.

Load due to	Magnitude of the load	Distance from b(m)	Moment about b(Nm)
Weight of soil= $\gamma * h$	72112.5	0.625	45070.3125
DL of the strip	9375	0.625	5859.375
Total moment			50929.6875
Deduct for upward pressure			
abih	58657	0.625	36660.6
igh	-2863	0.42	-1192.8
Total Deduction			35467.7
B.M for heel slab		N/mm ²	15462

Maxm bending moment for 1 m wide strip(M)

15462 Nm

Ultimate Moment(Mu) 23192.96 Nm

Effective depth(d.) 240.00 mm

$$\frac{Mu}{bd^2} = 0.403$$

Percentage of steel Pt= 0.09 %

0.2 %

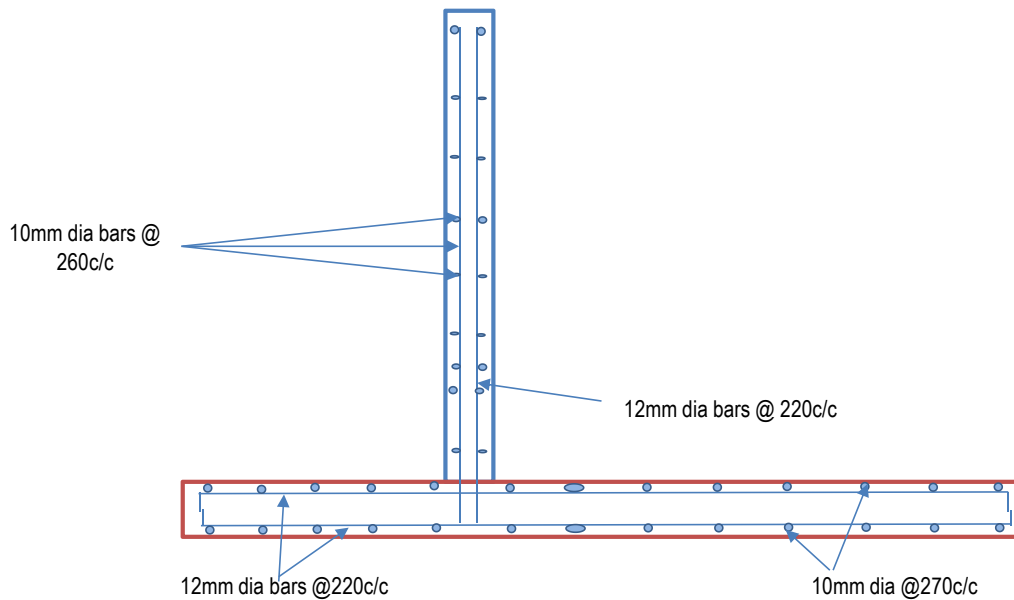
Ast 480.00 mm²

Provide bars of	12.00 mm
Spacing	230.00 mm

Distribution steel

288 mm²

Provide bars of	10.00 mm
Spacing	270 mm



Check for sliding

Total horizontal pressure force on the wall per meter run

34902.45 N

Take Coefficient of friction

0.6

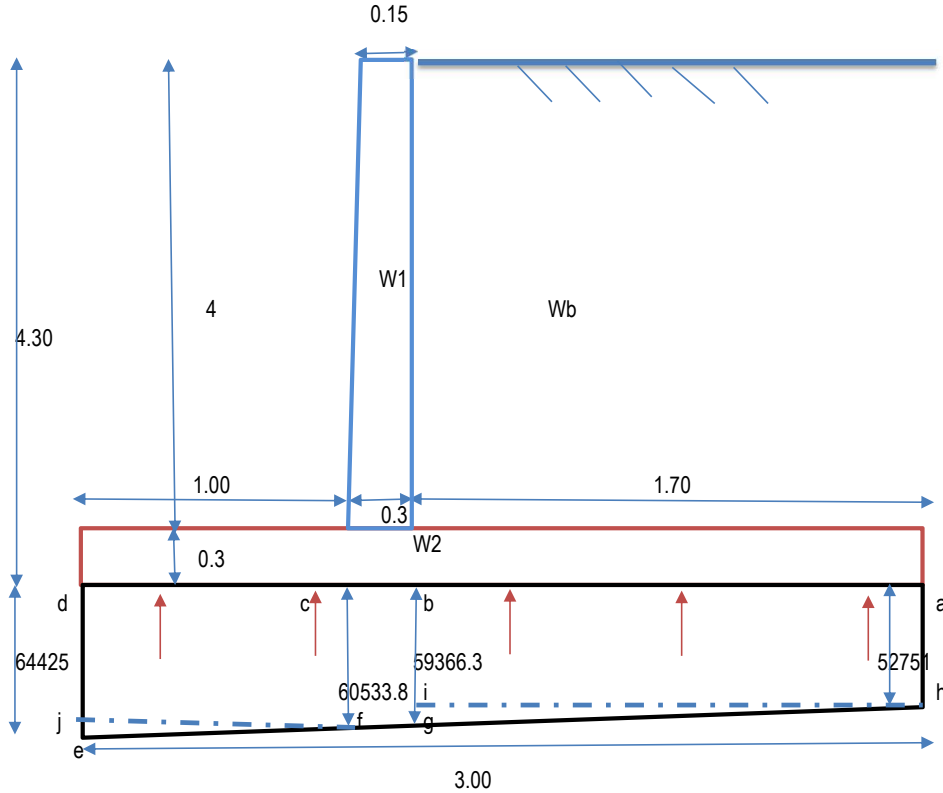
Limiting friction

63517.5 N

Factor of safety against sliding

1.82 OK

DESIGN OF CANTILEVER RETAINING WALL L2



Given

Height of wall (H)	4 m
Safe Bearing Capacity of soil	120000 N/m ²
Angle of repose of soil	16.22°
Weight of soil	19230 N/m ³
Thickness of stem at top	150 mm
Thickness of base slab	300 mm

Use M20 Concrete and Fe 500 steel

Maxm bending moment per metre run of the wall(M)

$$M = C_p * \frac{\gamma h^3}{6} \quad \text{68373.33333 Nm}$$

Ultimate moment(M_u) 102560 Nm

$$0.138 * f_{ck} * b d^2 = M_u * 1000 \quad \text{193 mm}$$

Effective cover to steel reinforcement 40 mm

Overall thickness of the stem 233 mm

Increase overall thickness by 30% for economical design

302.60

Adopt thickness of stem 300 mm

Actual effective depth 260 mm

Total height of the stem(H) 4.3 m

Width of base slab

0.5 H 2.15 m

0.7 H 3.01 m

Provide a base width of

3.00 m

Toe Projection

1/3 of base width 1.00 m
 Provide toe projection of 1.00 m

Stability calculation per meter run of the wall

	Load due to	Distance from heel	Moment about heel
W1	15000	1.85	27750
	7500	1.975	14812.5
W2	22500	1.5	33750
Wb	130764	0.85	111149.4
Moment of lateral pressure			
	$C_p \cdot \frac{\gamma h^3}{6}$		84939.97833
	175764		272401.88

Distance of point of application of the resultant force from the heel

Z 1.550 m
 Eccentricity (e,) Z-b/2 0.050 m
 b/6 0.500 **OK**

External pressure intensity at the base(p)

$$p = \frac{W}{b} (1 \pm \frac{6e}{b})$$

p_{max} 64425 N/m²
 p_{min} 52751 N/m²
OK

Design of the Stem

Maxm bending moment

$$\frac{Mu}{bd^2}$$

102560 Nm
 1.517

Percentage of steel Pt= 0.386 %

Ast 1004.23 mm²

Provide bars of	12.00 mm
Spacing	110.00 mm

Distribution steel

	360 mm ²
Provide bars of	10.00 mm
Spacing	210.00 mm

Design of Toe Slab

	Upward pressure	Distance from C	Moment about C
cdjf	60533.8	0.50	30266.88
jfe	1945.75	0.667	1297.17
Deduct for weight of toe slab			
	7500.00	0.50	3750.00
			27814.0

Ultimate Moment(Mu) 41721.06 Nm

Effective cover to steel 60.00 mm

Effective depth (d.) 240.00 mm

$$\frac{Mu}{bd^2}$$

0.724

Percentage of steel Pt= 0.17 %

0.2 %

Ast 480.00 mm²

Provide bars of	12.00 mm
Spacing	230.00 mm

Adopt110mm

Distribution steel

288 mm²

Provide bars of	10.00 mm
Spacing	270 mm

Design of heel slab

Consider a 1m wide strip of the heel slab near the heel end.

Load due to	Magnitude of the load	Distance from b(m)	Moment about b(Nm)
Weight of soil= $\gamma * h$	130764	0.85	111149.4
DL of the strip	12750	0.85	10837.5
Total moment			121986.9
Deduct for upward pressure			
abih	89676	0.85	76224.8
igh	5623	0.57	3186.5
Total Deduction			79411.3
B.M for heel slab		N/mm ²	42576

Maxm bending moment for 1 m wide strip(M)

42576 Nm

Ultimate Moment(Mu)

63863.37 Nm

Effective depth(d.)

240.00 mm

$$\frac{Mu}{bd^2}$$

1.109

Percentage of steel Pt=

0.27 %

0.27 %

Ast

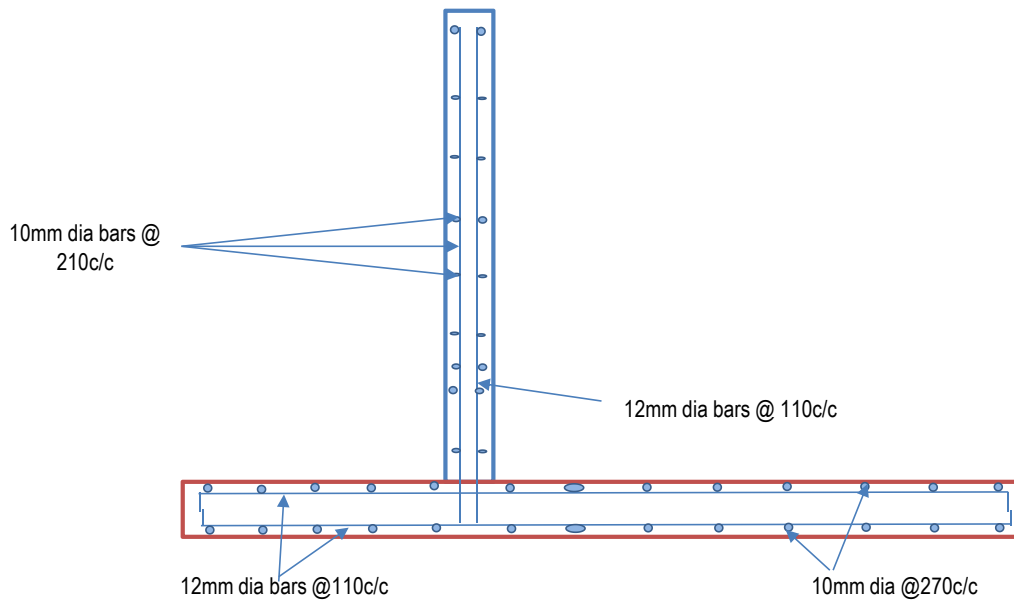
656.99 mm²

Provide bars of	12.00 mm
Spacing	170.00 mm

Distribution steel

288 mm²

Provide bars of	10.00 mm
Spacing	270 mm



Check for sliding

Total horizontal pressure force on the wall per meter run

59260.45 N

Take Coefficient of friction

0.6

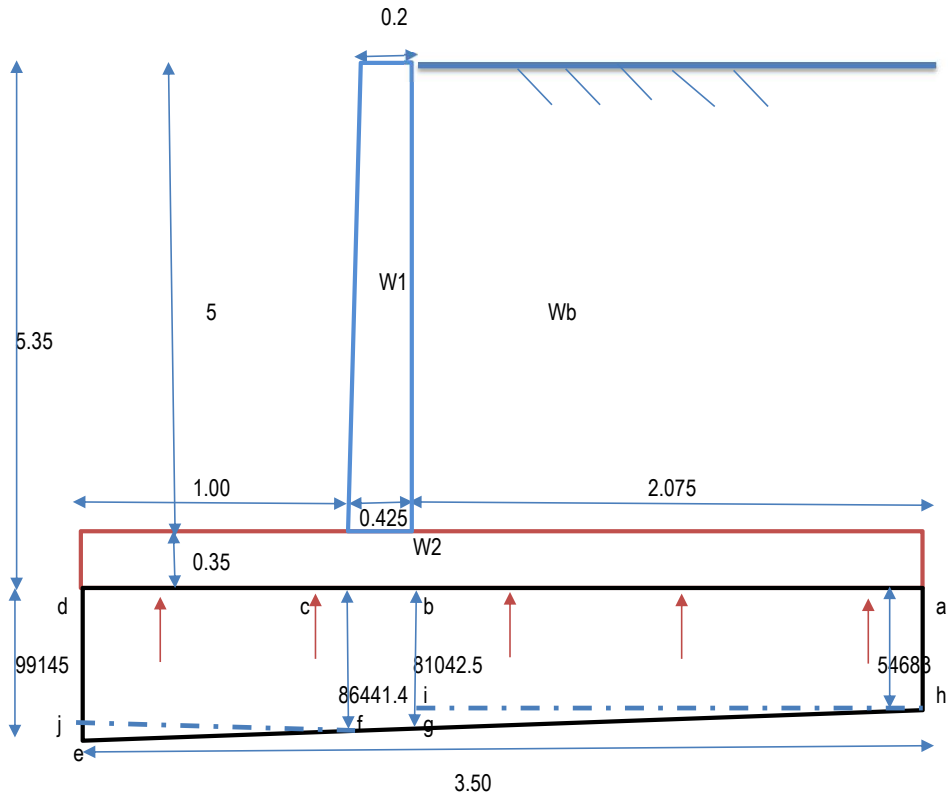
Limiting friction

105458.4 N

Factor of safety against sliding

1.78 OK

DESIGN OF CANTILEVER RETAINING WALL L3



Given

Height of wall (H)	5 m
Safe Bearing Capacity of soil	120000 N/m ²
Angle of repose of soil	16.22°
Weight of soil	19230 N/m ³
Thickness of stem at top	200 mm
Thickness of base slab	350 mm

Use M20 Concrete and Fe 500 steel

Maxm bending moment per metre run of the wall(M)

$$M = Cp * \frac{\gamma h^3}{6} \quad 133541.6667 \text{ Nm}$$

Ultimate moment(Mu) 200312.5 Nm

$$0.138 * f_{ck} * b d^2 = Mu * 1000 \quad 269 \text{ mm}$$

Effective cover to steel reinforcement 40 mm

Overall thickness of the stem 309 mm

Increase overall thickness by 30% for economical design

402.22

Adopt thickness of stem 425 mm

Actual effective depth 385 mm

Total height of the stem(H) 5.35 m

Width of base slab

0.5 H 2.675 m

0.7 H 3.745 m

Provide a base width of

3.50 m

Toe Projection

1/3 of base width 1.17 m
 Provide toe projection of 1.00 m

Stability calculation per meter run of the wall

	Load due to	Distance from heel	Moment about heel
W1	25000	2.3	57500
	14062.5	2.475	34804.6875
W2	30625	1.75	53593.75
Wb	199511.25	1.0375	206992.9219
Moment of lateral pressure			
	$C_p \cdot \frac{\gamma h^3}{6}$		163594.284
	269198.75		516485.64

Distance of point of application of the resultant force from the heel

Z 1.919 m
 Eccentricity (e,) 0.169 m
 Z-b/2 0.583 OK
 b/6

External pressure intensity at the base(p)

$$p = \frac{W}{b} (1 \pm \frac{6e}{b})$$

p_{max} 99145 N/m²
 p_{min} 54683 N/m²
OK

Design of the Stem

Maxm bending moment

$$\frac{Mu}{bd^2}$$

200312.5 Nm
 1.351

Percentage of steel Pt= 0.340 %

Ast 1307.72 mm²

Provide bars of	16.00 mm
Spacing	150.00 mm

Distribution steel

	510 mm ²
Provide bars of	10.00 mm
Spacing	150.00 mm

Design of Toe Slab

	Upward pressure	Distance from C	Moment about C
cdjf	86441.4	0.50	43220.70
jfe	6351.65	0.667	4234.43
Deduct for weight of toe slab			
	8750.00	0.50	4375.00
			43080.1

Ultimate Moment(Mu) 64620.20 Nm

Effective cover to steel 60.00 mm

Effective depth (d.) 290.00 mm

$$\frac{Mu}{bd^2}$$

0.768

Percentage of steel Pt= 0.19 %

0.2 %

Ast 580.00 mm²

Provide bars of	12.00 mm
Spacing	190.00 mm

Adopt150mm

Distribution steel

348 mm²

Provide bars of	10.00 mm
Spacing	220 mm

Design of heel slab

Consider a 1m wide strip of the heel slab near the heel end.

Load due to	Magnitude of the load	Distance from b(m)	Moment about b(Nm)
Weight of soil= $\gamma * h$	199511.25	1.0375	206992.9219
DL of the strip	18156.25	1.0375	18837.10938
Total moment			225830.0313
Deduct for upward pressure			
abih	113468	1.0375	117722.6
igh	27348	0.69	18915.6
Total Deduction			136638.2
B.M for heel slab		N/mm ²	89192

Maxm bending moment for 1 m wide strip(M)

89192 Nm

Ultimate Moment(Mu)

133787.81 Nm

Effective depth(d.)

290.00 mm

$$\frac{Mu}{bd^2}$$

1.591

Percentage of steel Pt=

0.41 %

0.41 %

Ast

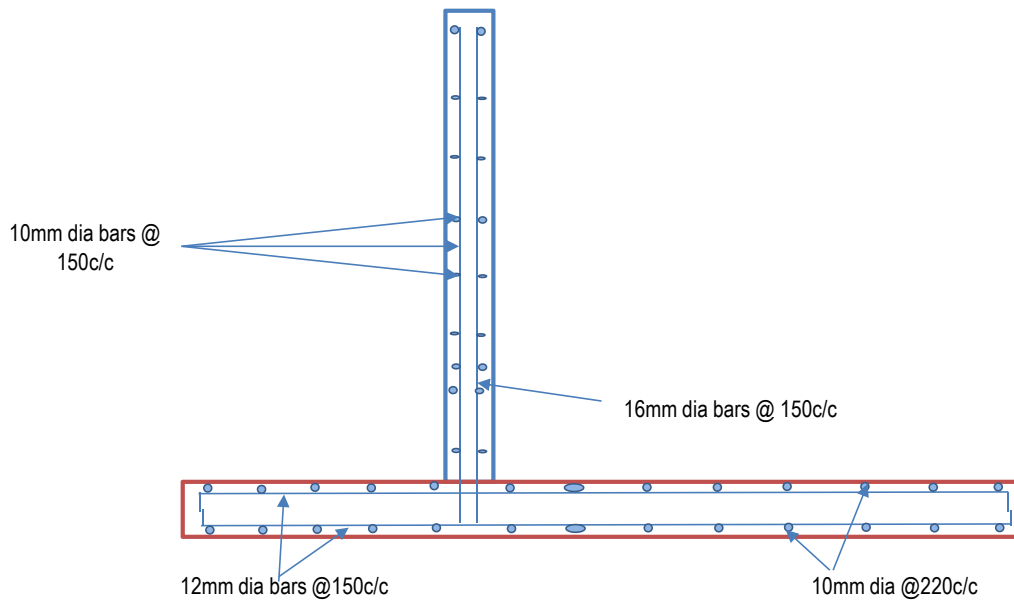
1181.39 mm²

Provide bars of	12.00 mm
Spacing	90.00 mm

Distribution steel

348 mm²

Provide bars of	10.00 mm
Spacing	220 mm



Check for sliding

Total horizontal pressure force on the wall per meter run

91735.1125 N

Take Coefficient of friction

0.6

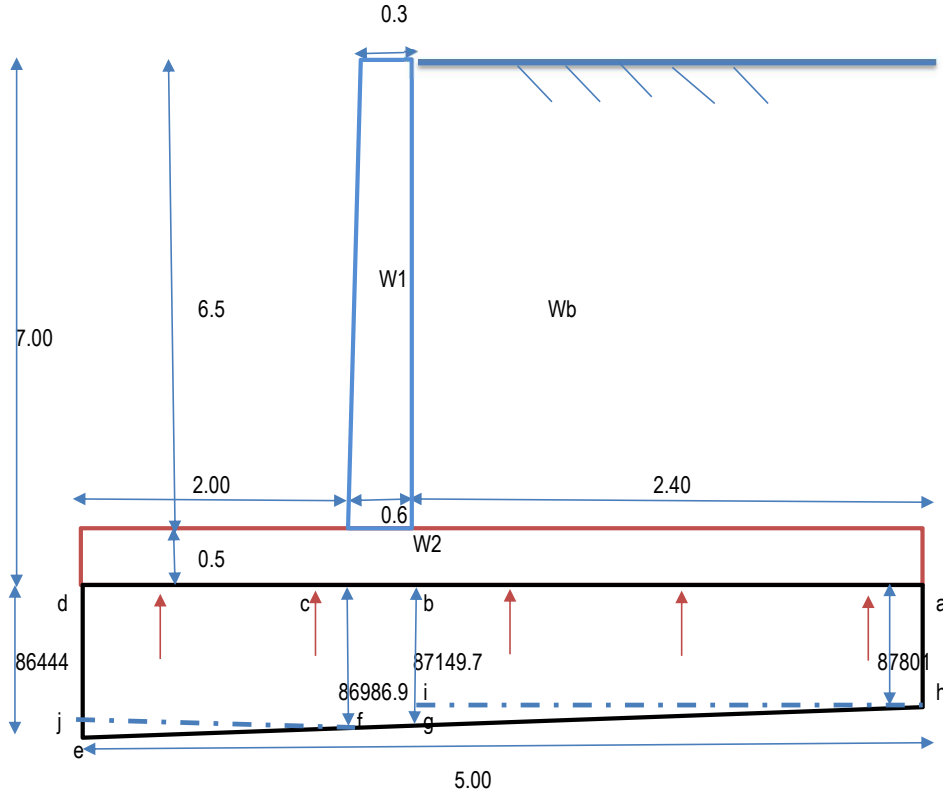
Limiting friction

161519.25 N

Factor of safety against sliding

1.76 OK

DESIGN OF CANTILEVER RETAINING WALL L4



Given

Height of wall (H)	6.5 m
Safe Bearing Capacity of soil	120000 N/m ²
Angle of repose of soil	16.22°
Weight of soil	19230 N/m ³
Thickness of stem at top	300 mm
Thickness of base slab	500 mm

Use M20 Concrete and Fe 500 steel

Maxm bending moment per metre run of the wall(M)

$$M = Cp * \frac{\gamma h^3}{6} \quad 293391.0417 \text{ Nm}$$

Ultimate moment(M_u) 440086.5625 Nm

$$0.138 * f_{ck} * b d^2 = M_u * 1000 \quad 399 \text{ mm}$$

Effective cover to steel reinforcement 40 mm

Overall thickness of the stem 439 mm

Increase overall thickness by 30% for economical design

Adopt thickness of stem 571.11 mm

Actual effective depth 600 mm

Total height of the stem(H) 7 m

Width of base slab

0.5 H 3.5 m

0.7 H 4.9 m

Provide a base width of

5.00 m

Toe Projection

1/3 of base width 1.67 m
 Provide toe projection of 2.00 m

Stability calculation per meter run of the wall

	Load due to	Distance from heel	Moment about heel
W1	48750	2.7	131625
	24375	2.950	71906.25
W2	62500	2.5	156250
Wb	299988	1.2	359985.6
Moment of lateral pressure			
	$C_p \cdot \frac{\gamma h^3}{6}$		366438.3333
	435613		1086205.18

Distance of point of application of the resultant force from the heel

Z 2.494 m
 Eccentricity (e,) -0.006 m
 Z-b/2 0.833 OK
 b/6

External pressure intensity at the base(p)

$$p = \frac{W}{b} (1 \pm \frac{6e}{b})$$

p_{max} 86444 N/m²
 p_{min} 87801 N/m²
OK

Design of the Stem

Maxm bending moment

$$\frac{Mu}{bd^2}$$

440086.5625 Nm
 1.403

Percentage of steel Pt= 0.354 %

Ast 1983.06 mm²

Provide bars of	16.00 mm
Spacing	100.00 mm

Distribution steel

	720 mm ²
Provide bars of	10.00 mm
Spacing	100.00 mm

Design of Toe Slab

	Upward pressure	Distance from C	Moment about C
cdjf	173973.8	1.00	173973.78
jfe	-542.84	1.333	-723.79
Deduct for weight of toe slab			
	25000.00	1.00	25000.00
	BM for toe slab		148250.0

Ultimate Moment(Mu) 222374.98 Nm

Effective cover to steel 60.00 mm

Effective depth (d.) 440.00 mm

$$\frac{Mu}{bd^2}$$

1.149

Percentage of steel Pt= 0.28 %

0.28 %

Ast 1251.39 mm²

Provide bars of	16.00 mm
Spacing	160.00 mm

Adopt100mm

Distribution steel

528 mm²

Provide bars of	10.00 mm
Spacing	140 mm

Design of heel slab

Consider a 1m wide strip of the heel slab near the heel end.

Load due to	Magnitude of the load	Distance from b(m)	Moment about b(Nm)
Weight of soil= $\gamma * h$	299988	1.2	359985.6
DL of the strip	30000	1.2	36000
Total moment			395985.6
Deduct for upward pressure			
abih	210723	1.2	252867.3
igh	-782	0.80	-625.4
Total Deduction			252242.0
B.M for heel slab		N/mm ²	143744

Maxm bending moment for 1 m wide strip(M)

143744 Nm

Ultimate Moment(Mu)

215615.44 Nm

Effective depth(d.)

440.00 mm

$$\frac{Mu}{bd^2}$$

1.114

Percentage of steel Pt=

0.28 %

0.28 %

Ast

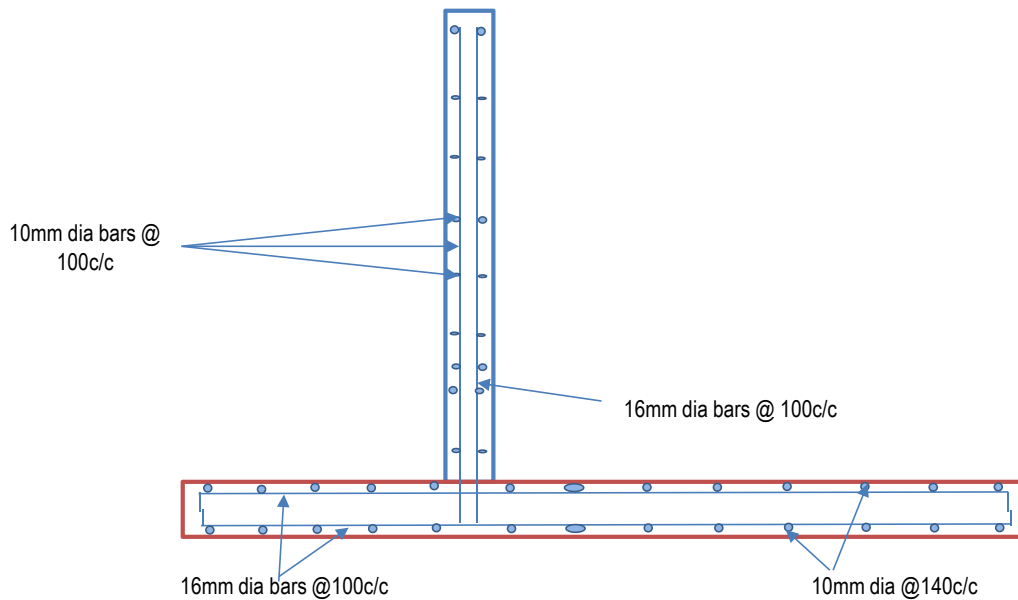
1210.31 mm²

Provide bars of	12.00 mm
Spacing	90.00 mm

Distribution steel

528 mm²

Provide bars of	10.00 mm
Spacing	140 mm



Check for sliding

Total horizontal pressure force on the wall per meter run

157045 N

Take Coefficient of friction

0.6

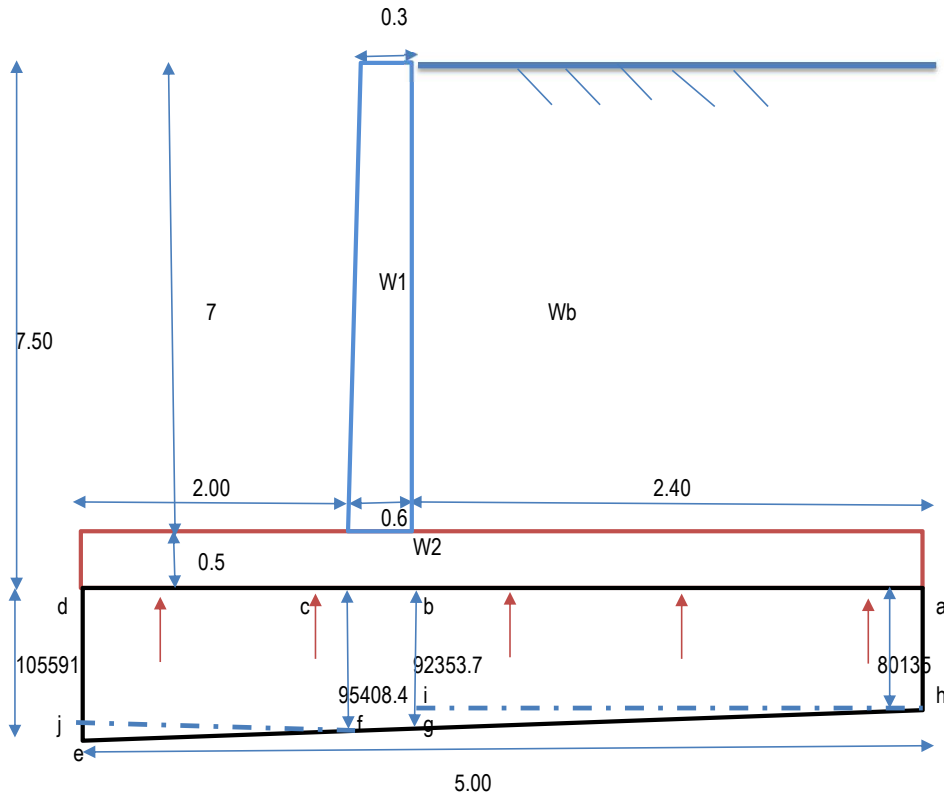
Limiting friction

261367.8 N

Factor of safety against sliding

1.66 OK

DESIGN OF CANTILEVER RETAINING WALL L5



Given

Height of wall (H)	7 m
Safe Bearing Capacity of soil	120000 N/m ²
Angle of repose of soil	16.22°
Weight of soil	19230 N/m ³
Thickness of stem at top	300 mm
Thickness of base slab	500 mm

Use M20 Concrete and Fe 500 steel

Maxm bending moment per metre run of the wall(M)

$$M = C_p * \frac{\gamma h^3}{6} \quad \text{366438.3333 Nm}$$

Ultimate moment(M_u) 549657.5 Nm

$$0.138 * f_{ck} * b d^2 = M_u * 1000 \quad \text{446 mm}$$

Effective cover to steel reinforcement 40 mm

Overall thickness of the stem 486 mm

Increase overall thickness by 30% for economical design

632.14

Adopt thickness of stem 600 mm

Actual effective depth 560 mm

Total height of the stem(H) 7.5 m

Width of base slab

0.5 H 3.75 m

0.7 H 5.25 m

Provide a base width of

5.00 m

Toe Projection

1/3 of base width 1.67 m
 Provide toe projection of 2.00 m

Stability calculation per meter run of the wall

	Load due to	Distance from heel	Moment about heel
W1	52500	2.7	141750
	26250	2.950	77437.5
W2	62500	2.5	156250
Wb	323064	1.2	387676.8
Moment of lateral pressure			
	$C_p \cdot \frac{\gamma h^3}{6}$		450703.125
	464314		1213817.43

Distance of point of application of the resultant force from the heel

Z 2.614 m
 Eccentricity (e,) Z-b/2 0.114 m
 b/6 0.833 **OK**

External pressure intensity at the base(p)

$$p = \frac{W}{b} (1 \pm \frac{6e}{b})$$

p_{max} 105591 N/m²
 p_{min} 80135 N/m²
OK

Design of the Stem

Maxm bending moment

$$\frac{Mu}{bd^2}$$

549657.5 Nm
 1.753

Percentage of steel Pt= 0.455 %

Ast 2547.17 mm²

Provide bars of	20.00 mm
Spacing	120.00 mm

Distribution steel

720 mm ²	
Provide bars of	10.00 mm
Spacing	100.00 mm

Design of Toe Slab

	Upward pressure	Distance from C	Moment about C
cdjf	190816.7	1.00	190816.71
jfe	10182.23	1.333	13576.30
Deduct for weight of toe slab			
	25000.00	1.00	25000.00
BM for toe slab			179393.0

Ultimate Moment(Mu) 269089.52 Nm

Effective cover to steel 60.00 mm

Effective depth (d.) 440.00 mm

$$\frac{Mu}{bd^2}$$

1.390

Percentage of steel Pt= 0.35 %
 0.35 %

Ast 1541.64 mm²

Provide bars of	16.00 mm
Spacing	130.00 mm

Adopt 120mm

Distribution steel

528 mm²

Provide bars of	10.00 mm
Spacing	140 mm

Design of heel slab

Consider a 1m wide strip of the heel slab near the heel end.

Load due to	Magnitude of the load	Distance from b(m)	Moment about b(Nm)
Weight of soil= $\gamma * h$	323064	1.2	387676.8
DL of the strip	30000	1.2	36000
Total moment			423676.8
Deduct for upward pressure			
abih	192324	1.2	230788.9
igh	14662	0.80	11729.9
Total Deduction			242518.8
B.M for heel slab		N/mm ²	181158

Maxm bending moment for 1 m wide strip(M)

181158 Nm

Ultimate Moment(Mu)

271737.04 Nm

Effective depth(d.)

440.00 mm

$$\frac{Mu}{bd^2}$$

1.404

Percentage of steel Pt=

0.35 %

0.35 %

Ast

1558.44 mm²

Provide bars of

16.00 mm

Spacing

120.00 mm

Distribution steel

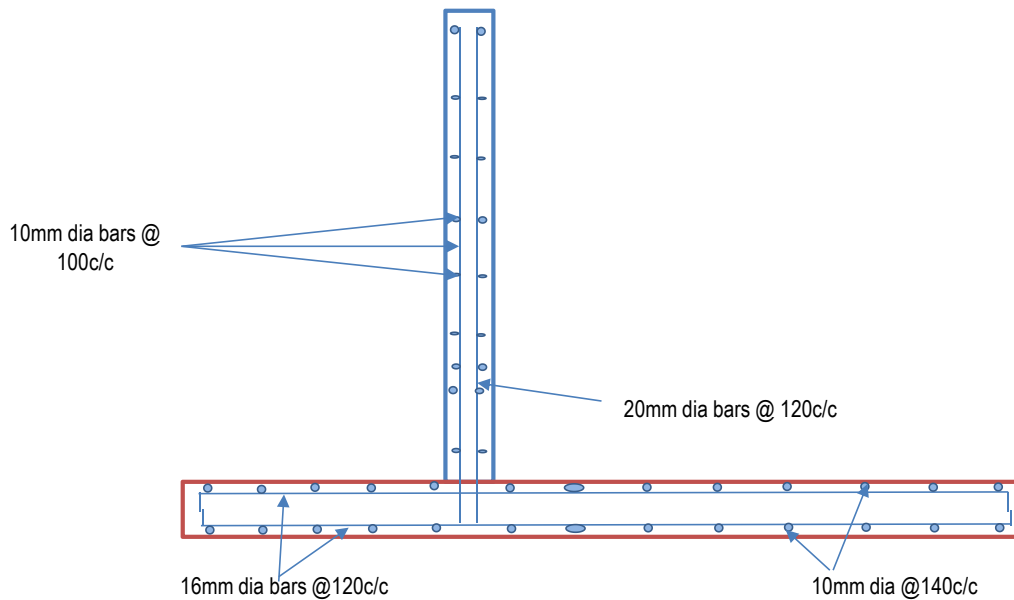
528 mm²

Provide bars of

10.00 mm

Spacing

140 mm



Check for sliding

Total horizontal pressure force on the wall per meter run

180281.25 N

Take Coefficient of friction

0.6

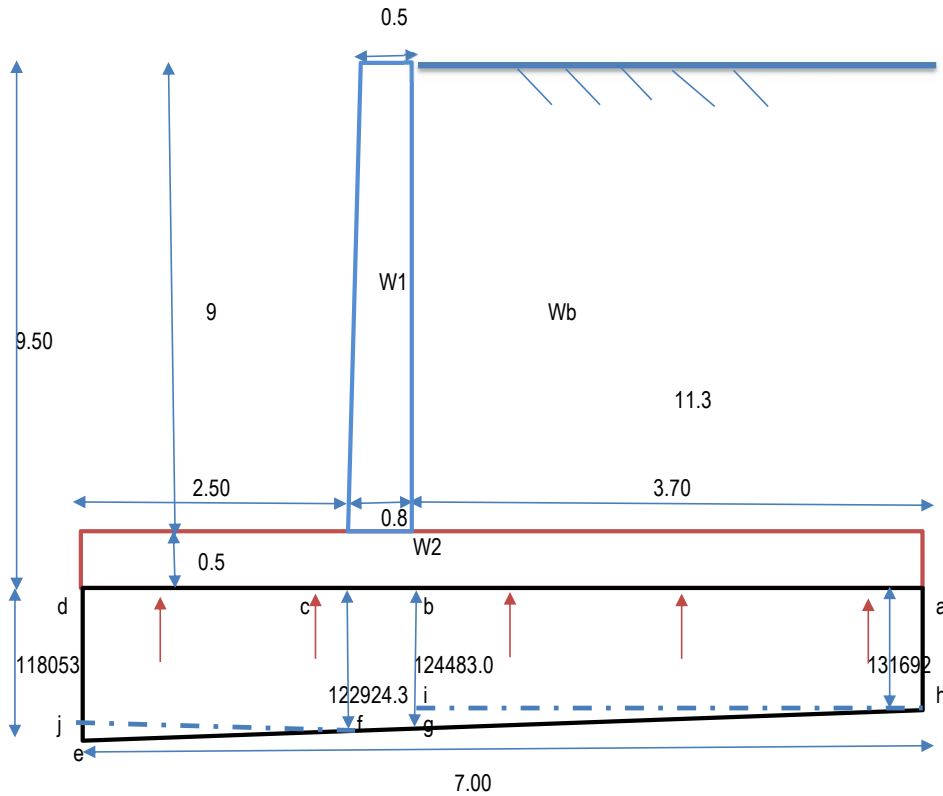
Limiting friction

278588.4 N

Factor of safety against sliding

1.55 OK

DESIGN OF CANTILEVER RETAINING WALL L6



Given

Height of wall (H)	9 m
Safe Bearing Capacity of soil	120000 N/m ²
Angle of repose of soil	16.22°
Weight of soil	19230 N/m ³
Thickness of stem at top	500 mm
Thickness of base slab	500 mm

Use M20 Concrete and Fe 500 steel

Maxm bending moment per metre run of the wall(M)

$$M = C_p * \frac{\gamma h^3}{6} \quad \text{778815 Nm}$$

Ultimate moment(M_u) 1168222.5 Nm

$$0.138 * f_{ck} * b d^2 = M_u * 1000 \quad \text{651 mm}$$

Effective cover to steel reinforcement 40 mm

Overall thickness of the stem 691 mm

Increase overall thickness by 30% for economical design

897.77

Adopt thickness of stem 800 mm

Actual effective depth 760 mm

Total height of the stem(H) 9.5 m

Width of base slab

0.5 H 4.75 m

0.7 H 6.65 m

Provide a base width of

7.00 m

Toe Projection

1/3 of base width 2.33 m
 Provide toe projection of 2.50 m

Stability calculation per meter run of the wall

	Load due to	Distance from heel	Moment about heel
W1	112500	4	450000
	33750	4.350	146812.5
W2	87500	3.5	306250
Wb	640359	1.85	1184664.15
Moment of lateral pressure			
	$C_p \cdot \frac{\gamma h^3}{6}$		915962.2917
	874109		3003688.94

Distance of point of application of the resultant force from the heel

Z 3.436 m
 Eccentricity (e,) -0.064 m
 Z-b/2 1.167 OK
 b/6

External pressure intensity at the base(p)

$$p = \frac{W}{b} \left(1 \pm \frac{6e}{b}\right)$$

p_{max} 118053 N/m²
 p_{min} 131692 N/m²
OK

Design of the Stem

Maxm bending moment

$$\frac{Mu}{bd^2}$$

1168222.5 Nm
 2.023

Percentage of steel Pt= 0.537 %

Ast 4084.09 mm²

Provide bars of	25.00 mm
Spacing	120.00 mm

Distribution steel

	960 mm ²
Provide bars of	12.00 mm
Spacing	110.00 mm

Design of Toe Slab

	Upward pressure	Distance from C	Moment about C
cdjf	307310.7	1.25	384138.40
jfe	-6088.84	1.667	-10148.06
Deduct for weight of toe slab			
	31250.00	1.25	39062.50
			334927.8

Ultimate Moment(Mu) 502391.75 Nm

Effective cover to steel 60.00 mm

Effective depth (d.) 440.00 mm

$$\frac{Mu}{bd^2}$$

2.595

Percentage of steel Pt= 0.73 %

0.73 %

Ast 3212.52 mm²

Provide bars of	25.00 mm
Spacing	150.00 mm

Adopt 120mm

Distribution steel

528 mm²

Provide bars of	10.00 mm
Spacing	140 mm

Design of heel slab

Consider a 1m wide strip of the heel slab near the heel end.

Load due to	Magnitude of the load	Distance from b(m)	Moment about b(Nm)
Weight of soil= $\gamma * h$	640359	1.85	1184664.15
DL of the strip	46250	1.85	85562.5
Total moment			1270226.65
Deduct for upward pressure			
abih	487261	1.85	901433.2
igh	-13337	1.23	-16449.0
Total Deduction			884984.2
B.M for heel slab		N/mm ²	385242

Maxm bending moment for 1 m wide strip(M)

385242 Nm

Ultimate Moment(Mu)

577863.62 Nm

Effective depth(d.)

440.00 mm

$$\frac{Mu}{bd^2}$$

2.985

Percentage of steel Pt=

0.88 %

0.88 %

Ast

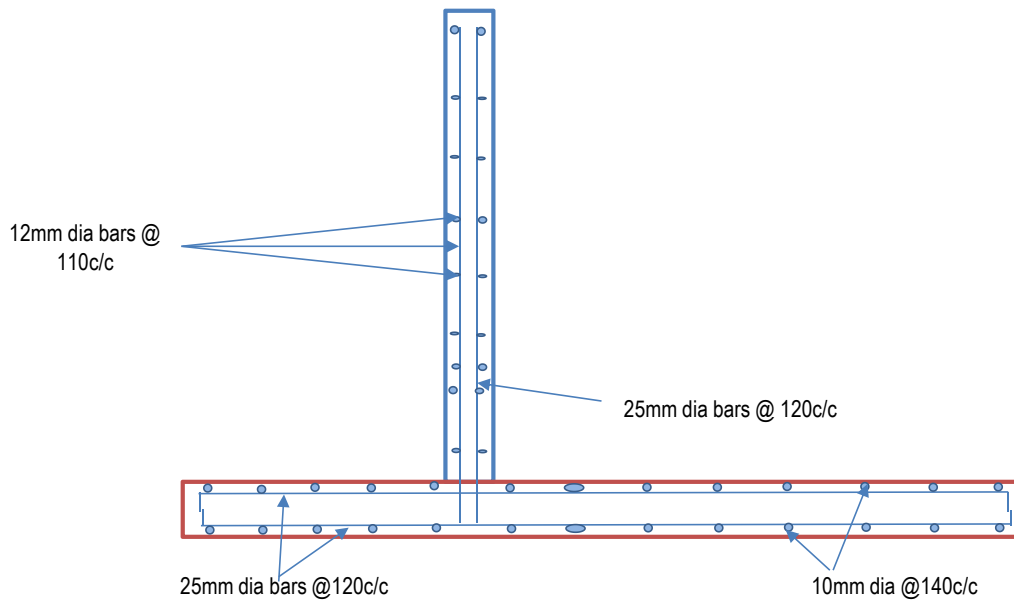
3872.88 mm²

Provide bars of	20.00 mm
Spacing	80.00 mm

Distribution steel

528 mm²

Provide bars of	10.00 mm
Spacing	140 mm



Check for sliding

Total horizontal pressure force on the wall per meter run

289251.25 N

Take Coefficient of friction

0.6

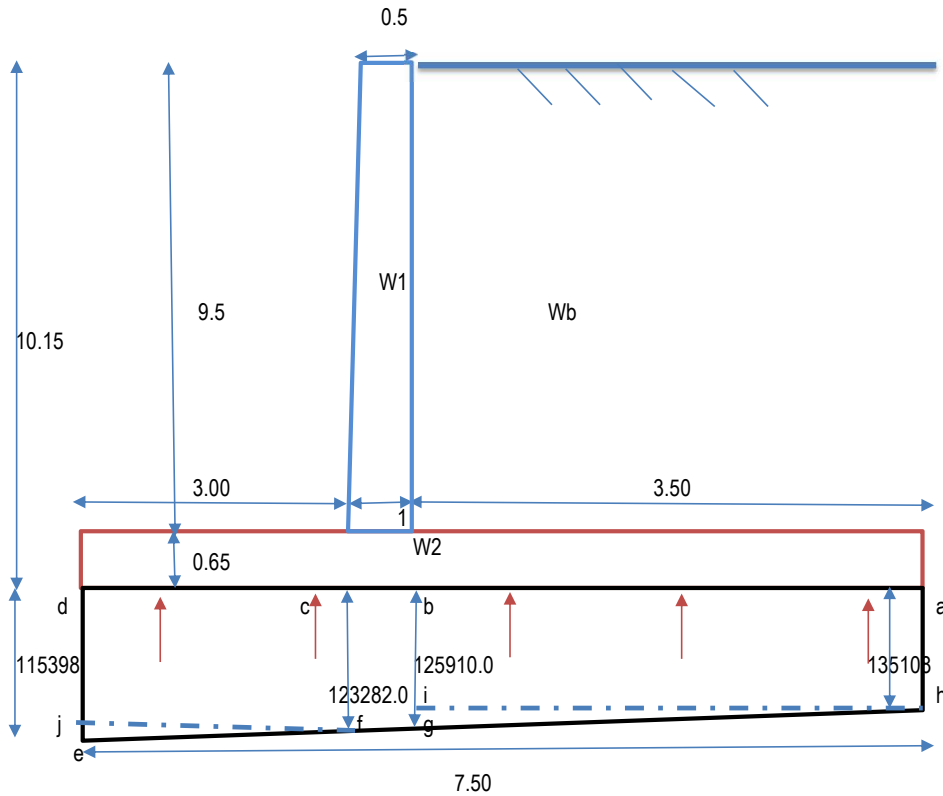
Limiting friction

524465.4 N

Factor of safety against sliding

1.81 OK

DESIGN OF CANTILEVER RETAINING WALL L7



Given

Height of wall (H)	9.5 m
Safe Bearing Capacity of soil	120000 N/m ²
Angle of repose of soil	16.22°
Weight of soil	19230 N/m ³
Thickness of stem at top	500 mm
Thickness of base slab	650 mm

Use M20 Concrete and Fe 500 steel

Maxm bending moment per metre run of the wall(M)

$$M = C_p * \frac{\gamma h^3}{6} \quad 915962.2917 \text{ Nm}$$

Ultimate moment(M_u) 1373943.438 Nm

$$0.138 * f_{ck} * b d^2 = M_u * 1000 \quad 706 \text{ mm}$$

Effective cover to steel reinforcement 40 mm

Overall thickness of the stem 746 mm

Increase overall thickness by 30% for economical design

969.22

Adopt thickness of stem 1000 mm

Actual effective depth 960 mm

Total height of the stem(H) 10.15 m

Width of base slab

0.5 H 5.075 m

0.7 H 7.105 m

Provide a base width of

7.50 m

Toe Projection

1/3 of base width 2.50 m
 Provide toe projection of 3.00 m

Stability calculation per meter run of the wall

	Load due to	Distance from heel	Moment about heel
W1	118750	4	475000
	59375	4.417	262239.5833
W2	121875	3.75	457031.25
Wb	639397.5	1.75	1118945.625
Moment of lateral pressure			
	$C_p \cdot \frac{\gamma h^3}{6}$		1117133.064
	939397.5		3430349.52

Distance of point of application of the resultant force from the heel

Z 3.652 m
 Eccentricity (e,) Z-b/2 -0.098 m
 b/6 1.250 **OK**

External pressure intensity at the base(p)

$$p = \frac{W}{b} (1 \pm \frac{6e}{b})$$

p_{max} 115398 N/m2
 p_{min} 135108 N/m2
OK

Design of the Stem

Maxm bending moment

$$\frac{Mu}{bd^2}$$

1373943.438 Nm
 1.491

Percentage of steel Pt= 0.379 %

Ast 3636.03 mm2

Provide bars of	25.00 mm
Spacing	130.00 mm

Distribution steel

	1200 mm2
Provide bars of	16.00 mm
Spacing	160.00 mm

Design of Toe Slab

	Upward pressure	Distance from C	Moment about C
cdjf	369846.0	1.50	554768.95
jfe	-11826.06	2.000	-23652.12
Deduct for weight of toe slab			
	48750.00	1.50	73125.00
			457991.8

Ultimate Moment(Mu) 686987.75 Nm

Effective cover to steel 60.00 mm

Effective depth (d.) 590.00 mm

$$\frac{Mu}{bd^2}$$

Percentage of steel Pt= 0.52 %

0.52 %

Ast 3080.07 mm2

Provide bars of	25.00 mm
Spacing	150.00 mm

Adopt130mm

Distribution steel

708 mm²

Provide bars of	10.00 mm
Spacing	110 mm

Design of heel slab

Consider a 1m wide strip of the heel slab near the heel end.

Load due to	Magnitude of the load	Distance from b(m)	Moment about b(Nm)
Weight of soil= $\gamma * h$	639397.5	1.75	1118945.625
DL of the strip	56875	1.75	99531.25
Total moment			1218476.875
Deduct for upward pressure			
abih	472878	1.75	827536.8
igh	-16097	1.17	-18779.3
Total Deduction			808757.5
B.M for heel slab		N/mm ²	409719

Maxm bending moment for 1 m wide strip(M)

409719 Nm

Ultimate Moment(Mu)

614579.11 Nm

Effective depth(d.)

590.00 mm

$$\frac{Mu}{bd^2}$$

1.766

Percentage of steel Pt=

0.46 %

0.46 %

Ast

2706.12 mm²

Provide bars of

20.00 mm

Spacing

110.00 mm

Distribution steel

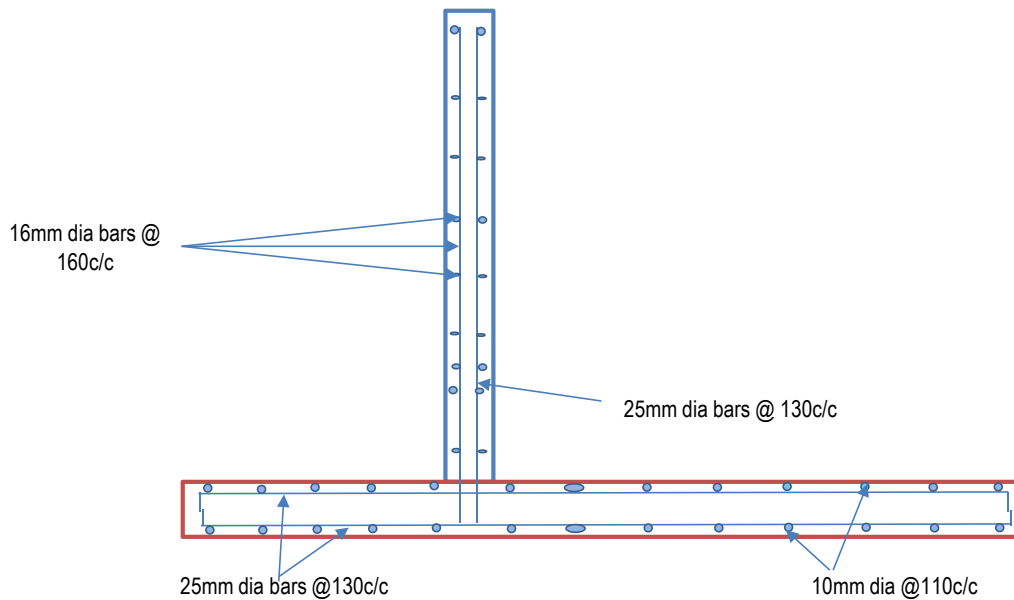
708 mm²

Provide bars of

10.00 mm

Spacing

110 mm



Check for sliding

Total horizontal pressure force on the wall per meter run

330187.1125 N

Take Coefficient of friction

0.6

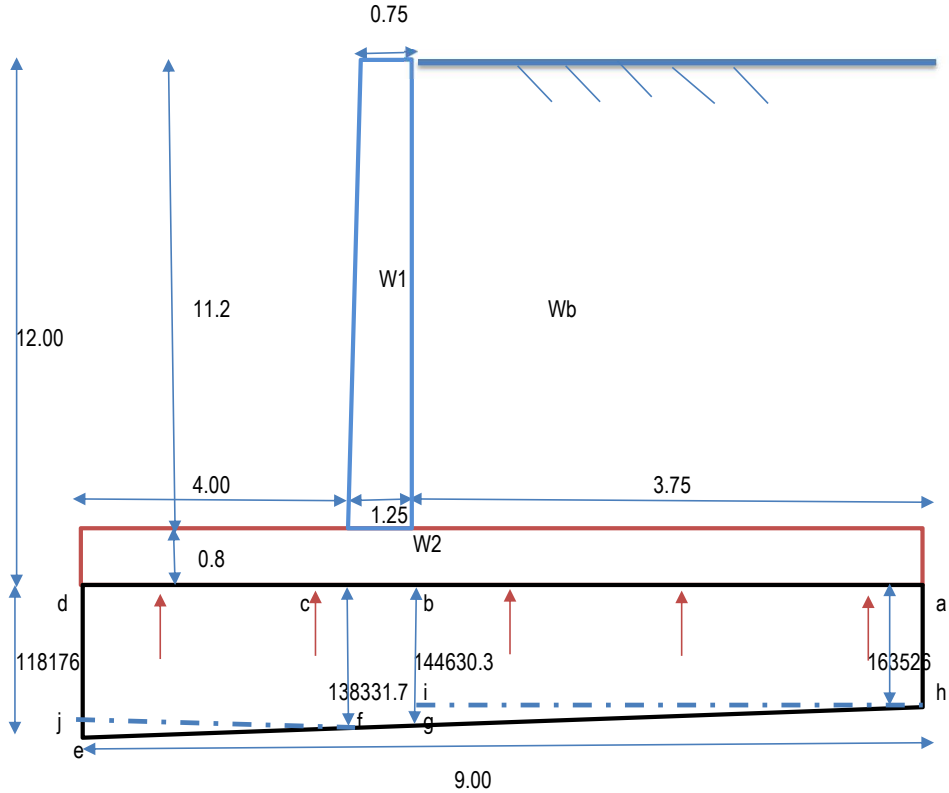
Limiting friction

563638.5 N

Factor of safety against sliding

1.71 OK

DESIGN OF CANTILEVER RETAINING WALL L8



Given

Height of wall (H)	11.2 m
Safe Bearing Capacity of soil	120000 N/m ²
Angle of repose of soil	16.22°
Weight of soil	19230 N/m ³
Thickness of stem at top	750 mm
Thickness of base slab	800 mm

Use M20 Concrete and Fe 500 steel

Maxm bending moment per metre run of the wall(M)

$$M = Cp * \frac{\gamma h^3}{6} \quad 1500931.413 \text{ Nm}$$

Ultimate moment(M_u) 2251397.12 Nm

$$0.138 * f_{ck} * b d^2 = M_u * 1000 \quad 903 \text{ mm}$$

Effective cover to steel reinforcement 40 mm

Overall thickness of the stem 943 mm

Increase overall thickness by 30% for economical design

Adopt thickness of stem 1226.13 mm

Actual effective depth 1210 mm

Total height of the stem(H) 12 m

Width of base slab

0.5 H 6 m

0.7 H 8.4 m

Provide a base width of

9.00 m

Toe Projection

1/3 of base width 3.00 m
 Provide toe projection of 4.00 m

Stability calculation per meter run of the wall

	Load due to	Distance from heel	Moment about heel
W1	210000	4.25	892500
	70000	4.792	335416.6667
W2	180000	4.5	810000
Wb	807660	1.875	1514362.5
Moment of lateral pressure			
	$C_p \cdot \frac{\gamma h^3}{6}$		1846080
	1267660		5398359.17

Distance of point of application of the resultant force from the heel

Z 4.259 m
 Eccentricity (e,) -0.241 m
 Z-b/2 1.500 **OK**
 b/6

External pressure intensity at the base(p)

$$p = \frac{W}{b} (1 \pm \frac{6e}{b})$$

p_{max} 118176 N/m2
 p_{min} 163526 N/m2
OK

Design of the Stem

Maxm bending moment

$$\frac{Mu}{bd^2}$$

2251397.12 Nm
 1.538

Percentage of steel Pt= 0.392 %

Ast 4744.63 mm2

Provide bars of	25.00 mm
Spacing	100.00 mm

Distribution steel

	1500 mm2
Provide bars of	16.00 mm
Spacing	130.00 mm

Design of Toe Slab

	Upward pressure	Distance from C	Moment about C
cdjf	553326.7	2.00	1106653.44
jfe	-40310.89	2.667	-107495.71
Deduct for weight of toe slab			
	80000.00	2.00	160000.00
			839157.7

Ultimate Moment(Mu) 1258736.60 Nm
 Effective cover to steel 60.00 mm
 Effective depth (d.) 740.00 mm
 $\frac{Mu}{bd^2}$ 2.299

Percentage of steel Pt= 0.63 %
0.63 %

Ast 4639.48 mm2

Provide bars of	25.00 mm
Spacing	100.00 mm

Adopt100mm

Distribution steel

888 mm²

Provide bars of	12.00 mm
Spacing	120 mm

Design of heel slab

Consider a 1m wide strip of the heel slab near the heel end.

Load due to	Magnitude of the load	Distance from b(m)	Moment about b(Nm)
Weight of soil= $\gamma * h$	807660	1.875	1514362.5
DL of the strip	75000	1.875	140625
Total moment			1654987.5
Deduct for upward pressure			
abih	613222	1.875	1149792.1
igh	-35429	1.25	-44286.9
Total Deduction			1105505.2
B.M for heel slab		N/mm ²	549482

Maxm bending moment for 1 m wide strip(M)

549482 Nm

Ultimate Moment(Mu)

824223.40 Nm

Effective depth(d.)

740.00 mm

$$\frac{Mu}{bd^2}$$

1.505

Percentage of steel Pt=

0.38 %

0.38 %

Ast

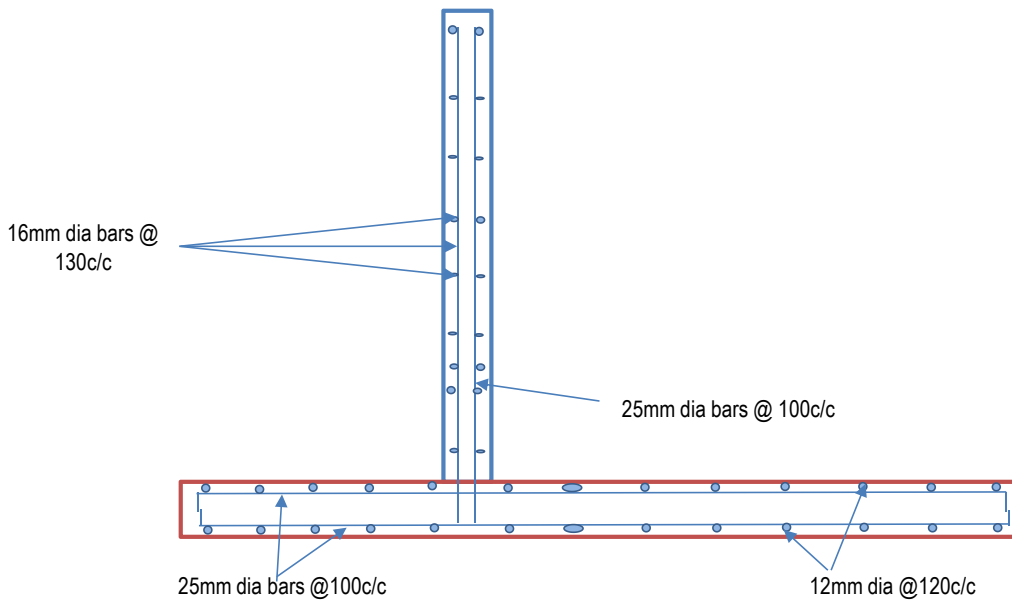
2832.90 mm²

Provide bars of	20.00 mm
Spacing	110.00 mm

Distribution steel

888 mm²

Provide bars of	12.00 mm
Spacing	120 mm



Check for sliding

Total horizontal pressure force on the wall per meter run

461520 N

Take Coefficient of friction

0.6

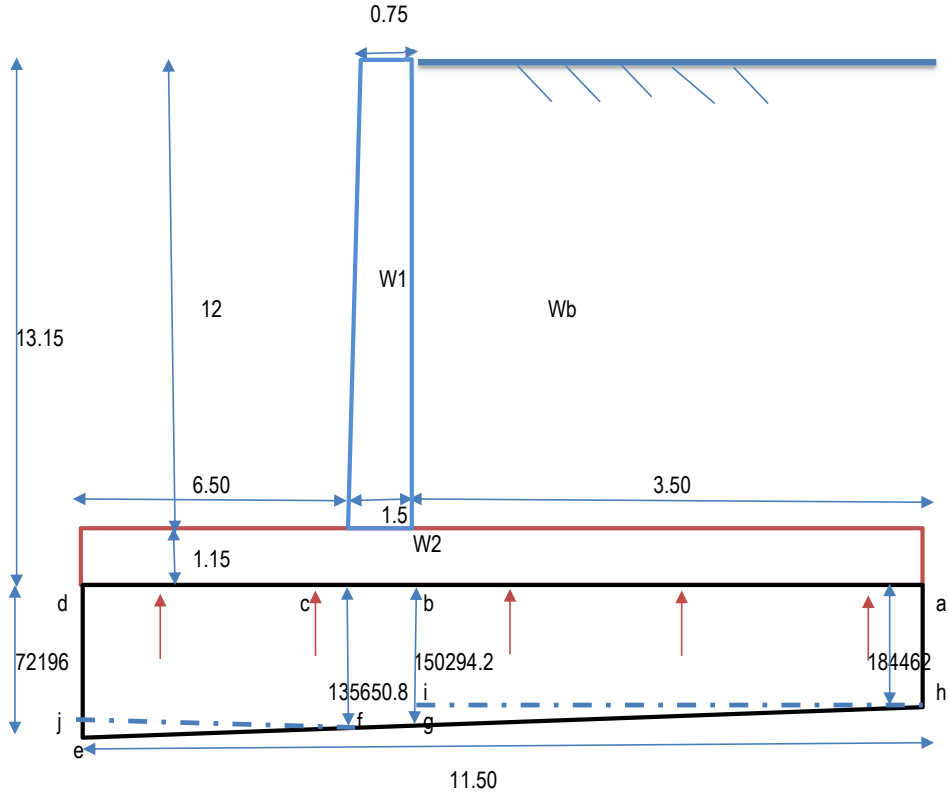
Limiting friction

760596 N

Factor of safety against sliding

1.65 OK

DESIGN OF CANTILEVER RETAINING WALL L9



Given

Height of wall (H)	12 m
Safe Bearing Capacity of soil	120000 N/m ²
Angle of repose of soil	16.22°
Weight of soil	19230 N/m ³
Thickness of stem at top	750 mm
Thickness of base slab	1150 mm

Use M20 Concrete and Fe 500 steel

Maxm bending moment per metre run of the wall(M)

$$M = C_p * \frac{\gamma h^3}{6} \quad \text{1846080 Nm}$$

Ultimate moment(M_u) 2769120 Nm

$$0.138 * f_{ck} * b d^2 = M_u * 1000 \quad \text{1002 mm}$$

Effective cover to steel reinforcement 40 mm

Overall thickness of the stem 1042 mm

Increase overall thickness by 30% for economical design

1354.15

Adopt thickness of stem 1500 mm

Actual effective depth 1460 mm

Total height of the stem(H) 13.15 m

Width of base slab

0.5 H 6.575 m

0.7 H 9.205 m

Provide a base width of

11.50 m

Toe Projection

1/3 of base width 3.83 m
 Provide toe projection of 6.50 m

Stability calculation per meter run of the wall

	Load due to	Distance from heel	Moment about heel
W1	225000	4.25	956250
	112500	4.875	548437.5
W2	330625	5.75	1901093.75
Wb	807660	1.75	1413405
Moment of lateral pressure			
	$C_p \cdot \frac{\gamma h^3}{6}$		2429316.151
	1475785		7248502.40

Distance of point of application of the resultant force from the heel

Z 4.912 m
 Eccentricity (e,) -0.838 m
 Z-b/2 1.917 OK
 b/6

External pressure intensity at the base(p)

$$p = \frac{W}{b} \left(1 \pm \frac{6e}{b}\right)$$

p_{max} 72196 N/m²
 p_{min} 184462 N/m²
OK

Design of the Stem

Maxm bending moment

$$\frac{Mu}{bd^2}$$

2769120 Nm
 1.299

Percentage of steel Pt= 0.325 %

Ast 4748.40 mm²

Provide bars of	25.00	mm
Spacing	100.00	mm

Distribution steel

		1800 mm ²
Provide bars of	20.00	mm
Spacing	170.00	mm

Design of Toe Slab

	Upward pressure	Distance from C	Moment about C
cdjf	881730.2	3.25	2865623.26
jfe	-206227.17	4.333	-893651.08
Deduct for weight of toe slab			
	186875.00	3.25	607343.75
			1364628.4

Ultimate Moment(Mu) 2046942.64 Nm

Effective cover to steel 60.00 mm

Effective depth (d.) 1090.00 mm

$$\frac{Mu}{bd^2}$$

1.723

Percentage of steel Pt= 0.45 %

0.45 %

Ast 4861.25 mm²

Provide bars of	25.00	mm
Spacing	100.00	mm

Adopt100mm

Distribution steel

1308 mm²

Provide bars of	16.00 mm
Spacing	150 mm

Design of heel slab

Consider a 1m wide strip of the heel slab near the heel end.

Load due to	Magnitude of the load	Distance from b(m)	Moment about b(Nm)
Weight of soil= $\gamma * h$	807660	1.75	1413405
DL of the strip	100625	1.75	176093.75
Total moment			1589498.75
Deduct for upward pressure			
abih	645617	1.75	1129829.6
igh	-59794	1.17	-69759.3
Total Deduction			1060070.3
B.M for heel slab		N/mm ²	529428

Maxm bending moment for 1 m wide strip(M)

529428 Nm

Ultimate Moment(Mu)

794142.71 Nm

Effective depth(d.)

1090.00 mm

$$\frac{Mu}{bd^2}$$

0.668

Percentage of steel Pt=

0.16 %

0.2 %

Ast

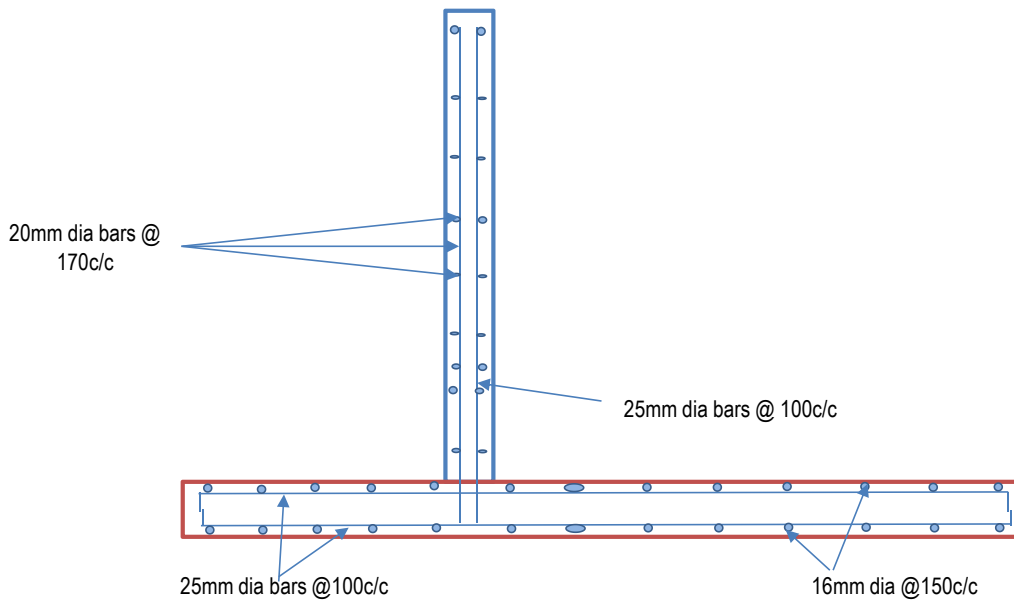
2180.00 mm²

Provide bars of	20.00 mm
Spacing	140.00 mm

Distribution steel

1308 mm²

Provide bars of	16.00 mm
Spacing	150 mm



Check for sliding

Total horizontal pressure force on the wall per meter run

554216.6125 N

Take Coefficient of friction

0.6

Limiting friction

885471 N

Factor of safety against sliding

1.60 OK

**Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province**

Cost Estimate of Boundary Wall at retaining wall L1 to L8

Length of compound	654.00	m	Height	2.10	m
Breadth of compound	0.00	m			
Spacing of pole	3.00	m			

Type of work :- Gabion Wire Mesh Boundary wall

S.N.	Description	Nos.	L (m)	B (m)	H (m)	Quantity	Unit
1	Brick Work						
1.1	Providing & laying brick masonry using first class chimney made bricks with 1:4 cement sand mortar including scaffolding, curing, cleaning, and racking out mortar joints & making ducts, recesses where required as per drawing, specification & approval of engineer.						
	Boundary Wall above Retaining Wall	1.00	560.72	0.23	0.90	116.07	
					Total	116.07	m³
2	PLASTER AND FINISHING WORK						
2.1	Providing and laying 12.5 mm thick cement plaster on concrete surface with 1:4 cement sand mortar in perfect line and level including scaffolding, curing etc. all complete as per drawing, specification & instruction.						
	Boundary wall	2	560.72		0.90	1,009.30	
					Total	1,009.30	m²
3	Providing and applying two coats water proof cement paint painting work in plastered surface as per specifications and as approved by the Engineer.						
	Total Plaster area						
					Total	1,009.30	m²
MISCELLANEOUS WORK							
Structure :- MS Angle framed mesh of Metal as fencing							
1	Supplying, fabricating & erecting of tubular pipe all complete as per drawing & specification.						
	2" pipe Vertical	217.00	2.10	@ 3.83 kg/m		1,745.33	
	1" pipe Horizontal	560.7	1.00	@ 1.67 kg/m		936.40	
	4" ISNB Post	217.0	2.40	@ 12.2 kg/m		6,353.76	
					Total	9,035.49	kg
2	Chainlink metal fencing with 10 guage wire (3"*3" size) specific with straching as per drawing and specification	1.00	560.72		2.10	1,177.51	Sqm
Total Cost							

**Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province**

Cost Estimate of Boundary Wall at retaining wall L9 to L12

Length of compound	50.00 m	Height 2.10 m
Breadth of compound	0.00 m	
Spacing of pole	3.00 m	

Type of work :- Gabion Wire Mesh Boundary wall

S.N.	Description	Nos.	L (m)	B (m)	H (m)	Quantity	Unit
MISCELLANEOUS WORK							
Structure :- MS Angle framed mesh of Metal as fencing							
1	Supplying, fabricating & erecting of tubular pipe all complete as per drawing & specification.						
	2" pipe Vertical	16.00	2.10	@ 3.83 kg/m		128.69	
	1" pipe Horizontal	74.2	1.00	@ 1.67 kg/m		123.98	
	4" ISNB Post	16.0	2.40	@ 12.2 kg/m		468.48	
				Total		721.15	kg
2	Chainlink metal fencing with 10 guage wire (3"*3" size) specific with straching as per drawing and specification	1.00	37.12		2.10	77.95	Sqm
Total Cost							

**Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province**

Detailed Quantity Estimate

Block: Retaining Wall

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
A	CIVIL WORK						
	EARTHWORK						
1	Site clearance before and after completion of work including desposing the remaining construction materials & plants & making the site in working condition all complete as per drawing and specification	m ²	1	704.0	10.000		7040.0
	Total						7040.0
2	Earthwork in excavation in soft clay and silty soil including 10 m lead and 1.5m lift	m ³					
a	Footings						
	Footing(L1)		1.0	60.00	2.50	1.30	195.00
	Footing(L2)		1.0	29.00	3.00	1.30	113.10
	Footing(L3)		1.0	40.00	3.50	1.35	189.00
	Footing(L4)		1.0	150.00	5.00	1.50	1125.00
	Footing(L5)		1.0	83.00	5.00	1.50	622.50
	Footing(L6)		1.0	92.00	7.00	2.00	1288.00
	Footing(L7)		1.0	50.00	7.50	2.15	806.25
	Footing(L8)		1.0	150.00	9.00	2.00	2700.00
	Footing(L9)		1.0	50.00	11.50	1.65	948.75
	Total						7987.600
3	Earth Work in Filling	m ³					
	Filling work within foundation area			30% of foundation work			2396.3
	Total						2396.3
4	Stone soling	m ³					
a	Footings						
	Footing(L1)		1.0	60.00	2.50	0.10	15.0
	Footing(L2)		1.0	29.00	3.00	0.10	8.7
	Footing(L3)		1.0	40.00	3.50	0.10	14.0
	Footing(L4)		1.0	150.00	5.00	0.10	75.0
	Footing(L5)		1.0	83.00	5.00	0.10	41.5
	Footing(L6)		1.0	92.00	7.00	0.10	64.4
	Footing(L7)		1.0	50.00	7.50	0.10	37.5
	Footing(L8)		1.0	150.00	9.00	0.10	135.0
	Footing(L9)		1.0	50.00	11.50	0.10	57.5
	Total						448.6
5	Plain cement concret PCC M10, (1:3:6) work in foundation and floors with cement,sand and crussed aggregate of 10 mm to 38mm gauge including mixing with mixtere machin & compaction by vibrator ,laying in line & level with curing all type of works complete as per specification & instruction	m ³					
a	Footings						
	Footing(L1)		1.0	60.00	2.50	0.10	15.0
	Footing(L2)		1.0	29.00	3.00	0.10	8.7
	Footing(L3)		1.0	40.00	3.50	0.10	14.0
	Footing(L4)		1.0	150.00	5.00	0.10	75.0
	Footing(L5)		1.0	83.00	5.00	0.10	41.5
	Footing(L6)		1.0	92.00	7.00	0.10	64.4
	Footing(L7)		1.0	50.00	7.50	0.10	37.5

**Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province**

Detailed Quantity Estimate

Block: Retaining Wall

S.N.	Items	Unit	No.	Length	Breadth	Height	Quantity
	Footing(L8)		1.0	150.00	9.00	0.10	135.0
	Footing(L9)		1.0	50.00	11.50	0.10	57.5
	Total						448.6
6	Plain cement Concrete (PCC) in 1:1.5:3 ratio for RCC works in column, beam, slab etc. with approved quality of cement, sand and stone aggregate including mixing, laying, compacting and curing etc all complete as per design drawing and specification	m³					
	Stem				Avg Area	Height	
	Footing(L1)		1.0	60.00	0.20	3.00	36.0
	Footing(L2)		1.0	29.00	0.23	4.00	26.1
	Footing(L3)		1.0	40.00	0.31	5.00	62.5
	Footing(L4)		1.0	150.00	0.45	6.50	438.8
	Footing(L5)		1.0	83.00	0.30	7.00	174.3
	Footing(L6)		1.0	92.00	0.65	9.00	538.2
	Footing(L7)		1.0	50.00	0.75	9.50	356.3
	Footing(L8)		1.0	150.00	1.00	11.20	1680.0
	Footing(L9)		1.0	50.00	1.13	12.00	675.0
	Base						
	Footing(L1)		1.0	60.00	2.50	0.30	45.00
	Footing(L2)		1.0	29.00	3.00	0.30	26.10
	Footing(L3)		1.0	40.00	3.50	0.35	49.00
	Footing(L4)		1.0	150.00	5.00	0.50	375.00
	Footing(L5)		1.0	83.00	5.00	0.50	207.50
	Footing(L6)		1.0	92.00	7.00	0.50	322.00
	Footing(L7)		1.0	50.00	7.50	0.65	243.75
	Footing(L8)		1.0	150.00	9.00	0.80	1080.00
	Footing(L9)		1.0	50.00	11.50	1.15	661.25
	Total						6996.7
7	Steel reinforcement bar of Fe 415/500 grade including straightening, cleaning, cutting, bending, placing in position and binding with annealed binding wire all complete as per design drawing and specification	MT					
	Footing(L1)		1.0				5.0
	Footing(L2)		1.0				5.2
	Footing(L3)		1.0				9.9
	Footing(L4)		1.0				83.6
	Footing(L5)		1.0				49.5
	Footing(L6)		1.0				130.1
	Footing(L7)		1.0				46.5
	Footing(L8)		1.0				111.0
	Footing(L9)		1.0				57.1
	Total						597.7
8	Formwork, shuttering, centering with plywood and wooden post necessary propping, scaffolding, staging, supporting and removal etc all complete in perfect line and level as per design, drawing and specification	m²					
a	Stem						
	Footing(L1)		1.0	120.4		3.00	361.2

BAR BENDING SCHEDULE - Retaining Wall L1

Bar Shape	Bar Dia	Nos	Length,m					Weigth of Bar (Kg)	Remarks	
	mm		a	b	c					
FOR BASE										
	12	273	2.42	0.12	0.12	0.012	0.000113094	644.05	Bottom Bar Main Bar	
	12	273	2.42	0.12	0.12	0.012	0.000113094	644.05	Top Bar Main Bar	
	10	9	59.92	0.1	0.1	0.01	7.85375E-05	343.20	Bottom Bar Distribution Bar	
	10	9	59.92	0.1	0.1	0.01	7.85375E-05	343.20	Top Bar Distribution Bar	
FOR STEM										
	12	273	3.22	0.12	0.12	0.012	0.000113094	837.75	Vertical Bar Main Bar	
	12	273	3.22	0.12	0.12	0.012	0.000113094	837.75	Vertical Bar Main Bar	
	10	13	59.92	0.1	0.1	0.01	7.85375E-05	470.44	Vertical Bar Distribution Bar	
	10	13	59.92	0.1	0.1	0.01	7.85375E-05	470.44	Vertical Bar Distribution Bar	
								5049.96		

BAR BENDING SCHEDULE - Retaining Wall L2

Bar Shape	Bar Dia	Nos	Length,m					Weigth of Bar (Kg)	Remarks	
	mm		a	b	c					
FOR BASE										
	12	264	2.92	0.12	0.12	0.012	0.000113094	739.61	Bottom Bar Main Bar	
	12	264	2.92	0.12	0.12	0.012	0.000113094	739.61	Top Bar Main Bar	
	10	11	28.92	0.1	0.1	0.01	7.85375E-05	199.48	Bottom Bar Distribution Bar	
	10	11	28.92	0.1	0.1	0.01	7.85375E-05	199.48	Top Bar Distribution Bar	
FOR STEM										
	12	264	4.22	0.12	0.12	0.012	0.000113094	1043.88	Vertical Bar Main Bar	
	12	264	4.22	0.12	0.12	0.012	0.000113094	1043.88	Vertical Bar Main Bar	
	10	20	28.92	0.1	0.1	0.01	7.85375E-05	367.61	Vertical Bar Distribution Bar	
	10	20	28.92	0.1	0.1	0.01	7.85375E-05	367.61	Vertical Bar Distribution Bar	
								5171.26		

BAR BENDING SCHEDULE - Retaining Wall L3

Bar Shape	Bar Dia	Nos	Length,m					Weigth of Bar (Kg)	Remarks	
	mm		a	b	c					
FOR BASE										
	12	267	3.42	0.12	0.12	0.012	0.000113094	866.48	Bottom Bar Main Bar	
	12	267	3.42	0.12	0.12	0.012	0.000113094	866.48	Top Bar Main Bar	
	10	16	39.92	0.1	0.1	0.01	7.85375E-05	393.51	Bottom Bar Distribution Bar	
	10	16	39.92	0.1	0.1	0.01	7.85375E-05	393.51	Top Bar Distribution Bar	
FOR STEM										
	16	267	5.27	0.16	0.16	0.016	0.000201056	2352.70	Vertical Bar Main Bar	
	16	267	5.27	0.16	0.16	0.016	0.000201056	2352.70	Vertical Bar Main Bar	
	10	36	39.92	0.1	0.1	0.01	7.85375E-05	882.21	Vertical Bar Distribution Bar	
	10	36	39.92	0.1	0.1	0.01	7.85375E-05	882.21	Vertical Bar Distribution Bar	
								9888.78		

BAR BENDING SCHEDULE - Retaining Wall L4

Bar Shape	Bar Dia	Nos	Length,m					Weigth of Bar (Kg)	Remarks	
	mm		a	b	c					
FOR BASE										
	16	1450	4.92	0.16	0.16	0.016	0.000201056	11991.84	Bottom Bar Main Bar	
	16	1450	4.92	0.16	0.16	0.016	0.000201056	11991.84	Top Bar Main Bar	
	10	36	144.92	0.1	0.1	0.01	7.85375E-05	3195.33	Bottom Bar Distribution Bar	
	10	36	144.92	0.1	0.1	0.01	7.85375E-05	3195.33	Top Bar Distribution Bar	
FOR STEM										
	16	1450	6.92	0.16	0.16	0.016	0.000201056	16568.88	Vertical Bar Main Bar	
	16	1450	6.92	0.16	0.16	0.016	0.000201056	16568.88	Vertical Bar Main Bar	
	10	70	144.92	0.1	0.1	0.01	7.85375E-05	6262.85	Vertical Bar Distribution Bar	
	10	70	144.92	0.1	0.1	0.01	7.85375E-05	6262.85	Vertical Bar Distribution Bar	
								83641.60		

BAR BENDING SCHEDULE - Retaining Wall L5

Bar Shape	Bar Dia	Nos	Length,m					Weigth of Bar (Kg)	Remarks	
	mm		a	b	c					
FOR BASE										
	16	629	4.92	0.16	0.16	0.016	0.000201056	5203.36	Bottom Bar Main Bar	
	16	629	4.92	0.16	0.16	0.016	0.000201056	5203.36	Top Bar Main Bar	
	10	36	75.42	0.1	0.1	0.01	7.85375E-05	1665.04	Bottom Bar Distribution Bar	
	10	36	75.42	0.1	0.1	0.01	7.85375E-05	1665.04	Top Bar Distribution Bar	
FOR STEM										
	20	629	7.42	0.2	0.2	0.02	0.00031415	12133.31	Vertical Bar Main Bar	
	20	629	7.42	0.2	0.2	0.02	0.00031415	12133.31	Vertical Bar Main Bar	
	10	75	75.42	0.1	0.1	0.01	7.85375E-05	3496.59	Vertical Bar Distribution Bar	
	10	75	75.42	0.1	0.1	0.01	7.85375E-05	3496.59	Vertical Bar Distribution Bar	
								49496.25		


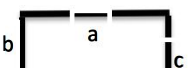


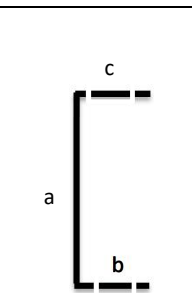
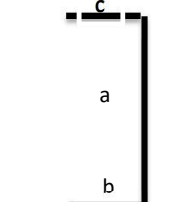
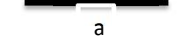

BAR BENDING SCHEDULE - Retaining Wall L6

Bar Shape	Bar Dia	Nos	Length,m					Weigth of Bar (Kg)	Remarks	
	mm		a	b	c					
FOR BASE										
	25	742	6.92	0.25	0.25	0.025	0.000490859	21205.06	Bottom Bar Main Bar	
	25	742	6.92	0.25	0.25	0.025	0.000490859	21205.06	Top Bar Main Bar	
	10	50	88.92	0.1	0.1	0.01	7.85375E-05	2747.21	Bottom Bar Distribution Bar	
	10	50	88.92	0.1	0.1	0.01	7.85375E-05	2747.21	Top Bar Distribution Bar	
FOR STEM										
	25	742	9.42	0.25	0.25	0.025	0.000490859	28349.62	Vertical Bar Main Bar	
	25	742	9.42	0.25	0.25	0.025	0.000490859	28349.62	Vertical Bar Main Bar	
	12	86	88.92	0.12	0.12	0.012	0.000113094	6836.13	Vertical Bar Distribution Bar	
	12	86	88.92	0.12	0.12	0.012	0.000113094	6836.13	Vertical Bar Distribution Bar	
								130103.62		

BAR BENDING SCHEDULE - Retaining Wall L7

Bar Shape	Bar Dia	Nos	Length,m					Weigth of Bar (Kg)	Remarks
	mm		a	b	c				
FOR BASE									
	25	235	7.42	0.25	0.25	0.025	0.000490859	7183.40	Bottom Bar Main Bar
	25	235	7.42	0.25	0.25	0.025	0.000490859	7183.40	Top Bar Main Bar
	10	68	30.52	0.1	0.1	0.01	7.85375E-05	1291.33	Bottom Bar Distribution Bar
	10	68	30.52	0.1	0.1	0.01	7.85375E-05	1291.33	Top Bar Distribution Bar
FOR STEM									
	25	235	10.07	0.25	0.25	0.025	0.000490859	9586.94	Vertical Bar Main Bar
	25	235	10.07	0.25	0.25	0.025	0.000490859	9586.94	Vertical Bar Main Bar
	16	63	30.52	0.16	0.16	0.016	0.000201056	3087.79	Vertical Bar Distribution Bar
	16	63	30.52	0.16	0.16	0.016	0.000201056	3087.79	Vertical Bar Distribution Bar
								46528.79	

BAR BENDING SCHEDULE - Retaining Wall L8

Bar Shape	Bar Dia	Nos	Length,m					Weigth of Bar (Kg)	Remarks	
	mm		a	b	c					
FOR BASE										
	25	488	8.92	0.25	0.25	0.025	0.000490859	17713.22	Bottom Bar Main Bar	
	25	488	8.92	0.25	0.25	0.025	0.000490859	17713.22	Top Bar Main Bar	
	10	75	48.72	0.1	0.1	0.01	7.85375E-05	2262.01	Bottom Bar Distribution Bar	
	10	75	48.72	0.1	0.1	0.01	7.85375E-05	2262.01	Top Bar Distribution Bar	
FOR STEM										
	25	488	11.92	0.25	0.25	0.025	0.000490859	23354.37	Vertical Bar Main Bar	
	25	488	11.92	0.25	0.25	0.025	0.000490859	23354.37	Vertical Bar Main Bar	
	16	92	48.72	0.16	0.16	0.016	0.000201056	7144.55	Vertical Bar Distribution Bar	
	16	92	48.72	0.16	0.16	0.016	0.000201056	7144.55	Vertical Bar Distribution Bar	
								111043.13		

BAR BENDING SCHEDULE - Retaining Wall L9

Bar Shape	Bar Dia	Nos	Length,m					Weigth of Bar (Kg)	Remarks	
	mm		a	b	c					
FOR BASE										
	25	200	11.42	0.25	0.25	0.025	0.000490859	9186.14	Bottom Bar Main Bar	
	25	200	11.42	0.25	0.25	0.025	0.000490859	9186.14	Top Bar Main Bar	
	16	77	19.92	0.16	0.16	0.016	0.000201056	2449.08	Bottom Bar Distribution Bar	
	16	77	19.92	0.16	0.16	0.016	0.000201056	2449.08	Top Bar Distribution Bar	
FOR STEM										
	25	200	13.07	0.25	0.25	0.025	0.000490859	10457.71	Vertical Bar Main Bar	
	25	200	13.07	0.25	0.25	0.025	0.000490859	10457.71	Vertical Bar Main Bar	
	20	77	19.92	0.2	0.2	0.02	0.00031415	3876.21	Vertical Bar Distribution Bar	
	20	77	19.92	0.2	0.2	0.02	0.00031415	3876.21	Vertical Bar Distribution Bar	
								57132.11		

Summary of Rate Analysis

Suryabinayak Municipality

Fiscal Year: 2080/081

S.No	Discription of Work	Unit	Users committee rate		Contractor's rate		Remarks
			Actual rate	With VAT rate	Contractor's Overhead15%	Rate with Contractor's Overhead	
1	Cutting of bushes, roots of tree, cutting of tree and disposal of materials upto 15m lead						
	tree having girth 12-30cm.	nos	117.00		17.55	134.55	
	tree having girth 31-60cm.	nos	351.00		52.65	403.65	
	tree having girth 61-120cm.	nos	882.00		132.30	1014.30	
	Site Clearance work	m2	36.00		5.40	41.40	
2	Dismantalling work						
	Brick Masonry wall	m3	1350.00		202.50	1552.50	
	Stone Masonry wall	m3	1800.00		270.00	2070.00	
	PCC	m3	3600.00		540.00	4140.00	
	RCC	m3	9900.00		1485.00	11385.00	
	Timber Structure	m3	900.00		135.00	1035.00	
	Masonry in Mud mortar	m3	144.00		21.60	165.60	
	Dry masonry wall	m3	1350.00		202.50	1552.50	
	Flexible and Cement Concrete Pavement	m3	6600		990.00	7590.00	
	Tile roofing work	m2	137.7		20.65	158.35	
	CGI sheet roofing	m2	68.4		10.26	78.66	
	Cement plaster surface	m2	92.70		13.90	103.90	
3	Land Slide Clerance Works						
	Ordinary Soil / Hard Soil Manually	m3	270.00		40.50	310.50	
	Boulder mix soil Manually	m3	585.00		87.75	672.75	
	Ordinary rock & Medium rock Manually	m3	954.00		143.10	1097.10	
	Surface Improvement work manually	m2	144.00		21.60	165.60	
	By Using Heavy Equipment all types of soil	m3	70.33	79.47	10.55	80.88	
4	Earth work in excavation						
	foundation(>2m depth) in ordinary & Hard soil manual	m3	900.00		135.00	1035.00	
	Ordinary soil	m3	450.00		67.50	517.50	
	Hard soil	m3	540.00		81.00	621.00	
	Ordinary rock	m3	2700.00		405.00	3105.00	
	Medium rock	m3	4500.00		675.00	5175.00	
	Hard rock with chiesling	m3	21780.00		3267.00	25047.00	
	Earthwork in excavation by using heavy equipment in OS,HS, BMS,MS,SR	m3	70.33	79.47	10.55	80.88	
	Earthwork in excavation by using heavy equipment /Breaker in hard rock	m3	428.79	484.53	64.32	493.11	
	Earth Filling work	m3	225.00		33.75	258.75	
	Earthwork in filling work with compaction manually	m3	893.50		134.02	1027.52	
	Filling of sand including watering with compaction	m3	4046.40		606.96	4653.36	
	River Gravel filling with compaction work manually for building	m3	2896.37		434.45	3330.82	
	Earth Filling with compaction with Roller	m3	517.30		77.59	594.89	
	Earth back filling work by mechanical means	m3	59.62	67.37	8.94	68.56	
5	Stone (Rubble) Masonry work						
	Stone masonry work in 1:4 C / S mortar	m3	11837.80	12081.64	1775.67	13613.47	
	Stone masonry work in 1:6 C / S mortar	m3	11155.38	11332.72	1673.30	12828.68	
	Chiseling Stone masonry work in 1:6 C / S mortar	m3	12694.22	12952.84	1904.13	14598.35	
	Stone (Rubble) masonry work in Mud mortar	m3	6584.38		987.65	7572.03	
	Dry Stone (Rubble) masonry work	m3	5617.36		842.60	6459.96	
	Stone soling work with levelling	m3	4567.36		685.10	5252.46	
6	Brick Masonry work						
	Machine Made First class brickwork in 1:3 c/s mortar (G F)	m3	17689.95	17913.19	2653.49	20343.44	
	Machine Made First class brickwork in 1:3 c/s mortar (First Floor)	m3	18153.45	18376.69	2723.01	20876.46	
	Machine Made First class brickwork in 1:4 c/s mortar (G F)	m3	17285.85	17457.58	2592.87	19878.72	
	Machine Made First class brickwork in 1:4 c/s mortar (First Floor)	m3	17749.35	17921.08	2662.40	20411.75	
	Machine Made First class brickwork in 1:6 c/s mortar (G F)	m3	16977.49	17097.70	2546.62	19524.11	
	Machine Made First class brickwork in 1:6 c/s mortar (First Floor)	m3	17440.99	17561.20	2616.14	20057.13	
	Chimney Made First class brickwork in 1:3 c/s mortar (G F)	m3	14119.95	14343.19	2117.99	16237.94	

S.No	Discription of Work	Unit	Users committee rate		Contractor's rate		Remarks
			Actual rate	With VAT rate	Contractor's Overhead15%	Rate with Contractor's Overhead	
	Chimney Made First class brickwork in 1:3 c/s mortar (First Floor)	m3	14583.45	14806.69	2187.51	16770.96	
	Chimney Made First class brickwork in 1:4 c/s mortar (G F)	m3	13749.49	13921.22	2062.42	15811.91	
	Chimney Made First class brickwork in 1:4 c/s mortar (First Floor)	m3	14212.99	14384.72	2131.94	16344.93	
	Chimney Made First class brickwork in 1:6 c/s mortar (G F)	m3	13407.49	13527.70	2011.12	15418.61	
	Chimney Made First class brickwork in 1:6 c/s mortar (First Floor)	m3	14267.29	14439.02	2140.09	16407.38	
	Chimney Made First class brickwork in Mud mortar (G F)	m3	10625.21		1593.78	12218.99	
	Chimney Made First class brick rap trap bond work in 1:6 c/s mor.	m3	10442.25	10504.07	1566.33	12008.58	
7	Block Masonry work						
	Machine made Concrete block masonry work in 1:4 c/s mortar	m2	1647.66	1671.70	247.14	1894.80	
8	Plain cement concrete (P:C:C) Work by manually						
	P.C.C work in (1:3:6) ratio	m3	12638.67	13045.07	1895.80	14534.47	
	P.C.C work in (1:2:4) ratio	m3	13827.55	14418.68	2074.13	15901.68	
	P.C.C work in (1:1.5:3) ratio	m3	17423.50	18162.42	2613.52	20037.02	
	P.C.C work in (1:1:2) ratio	m3	20417.52	21544.37	3062.62	23480.14	
9	Plain cement concrete (P:C:C) Work By Machine						
	P.C.C work in (1:3:6) ratio	m3	12509.11	12915.51	1876.36	14385.47	
	P.C.C work in (1:2:4) ratio	m3	13866.50	14457.63	2079.97	15946.47	
	P.C.C work in (1:1.5:3) ratio	m3	14978.85	15717.77	2246.82	17225.67	
	P.C.C work in (1:1:2) ratio	m3	17972.87	17972.87	2695.93	20668.80	
	Plumb Condreting work 60 % M15,40% boulder	m3	11453.45	12942.40	1718.01	13171.46	
10	Ready mix Plain cement concrete(P:C:C) Work By Machine						
	P.C.C work in M20 grade (1:1.5:3) ratio	m3	15297.25	17276.50	2294.58	17591.83	
11	Steel reinforcement works including straightening, cleaning, cutting, bending, binding and fixing						
	steel work	Kg	130.55	144.23	19.58	150.13	
12	Centering and shuttering for form work						
	form work for pillar,beam,slab of RCC Works using local wood	m2	222.81		33.42	256.23	
	form work for Column post	m2	587.15		88.07	675.22	
	form work for Slab with steel prop & ply wood	m2	793.97		119.09	913.06	
	form work for beam with steel prop & ply wood	m2	1125.89		168.88	1294.77	
	form work for slab and beam for bridges and culverts up to 6 m ht. using steel props	m2	3776.18	4267.08	566.43	4342.61	
13	Cement plaster work						
	12.5mm thickC / P work in 1:3cement sand ratio	m2	482.30	493.03	72.34	554.64	
	12.5mm thickC / P work in 1:4cement sand ratio	m2	404.40	413.63	60.66	465.06	
	12.5mm thickC / P work in 1:6cement sand ratio	m2	387.21	393.77	58.08	445.29	
	20mm thickC / P work in 1:3cement sand ratio	m2	526.36	542.84	78.95	605.31	
	20mm thickC / P work in 1:4cement sand ratio	m2	514.30	528.21	77.14	591.44	
	20mm thickC / P work in 1:6cement sand ratio	m2	487.26	497.04	73.08	560.34	
	3mm thick cement punning work (for 100m2)	m2	278.43	287.32	41.76	320.19	
	25mm thick mud plaster work	m2	480.34		72.05	552.39	
	12mm thick mud plaster work	m2	369.92		55.48	425.40	
14	Cement Pointing work						
	Brick masonry wall pointing work in 1:1cement sand ratio	m2	282.57	287.99	42.38	324.95	
	Brick masonry wall pointing work in 1:2cement sand ratio	m2	270.74	274.34	40.61	311.35	
	Stone masonry wall pointing work in 1:1cement sand ratio	m2	340.20	350.70	51.03	391.23	
	Stone masonry wall pointing work in 1:2cement sand ratio	m2	317.59	324.59	47.63	365.22	
	Flat Stone paving floor pointing work in 1:3cement sand ratio	m2	111.48	112.20	16.72	128.20	
	Flat Brick paving for floor pointing work in 1:1cement sand ratio	m2	232.92	235.49	34.93	267.85	
	Pani patti(Eves board) work on over plaster 20mm thick	Rm	143.91	155.93	21.58	165.49	
	2mm thick Wall & ceiling White Putting work	m2	252.56	258.09	37.88	290.44	
15	Wood work						
	Door & Window CHAUKOSH						
	Sal wood work for Door & Window CHAUKOSH	m3	281984.60		42297.69	324282.29	
	Local wood work for Door & Window CHAUKOSH	m3	108827.99		16324.19	125152.18	
	Door Dila shutter						
	38mm thick Dila Shutter for Sal wood	m2	14871.13		2230.66	17101.79	
	38mm thick Dila Shutter for Local wood	m2	8616.22		1292.43	9908.65	
	Door & Window Glass pannel shutter						
	Sal wood for Door & Window 3mm Glass pannel shutter	m2	10388.31	10448.22	1558.24	11946.55	

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			Actual rate	With VAT rate	Contractor's Overhead15%	Rate with Contractor's Overhead	
	Sal wood for Door & Window 4mm Glass pannel shutter	m2	10477.23	10537.14	1571.58	12048.81	
	Sal wood for Door & Window 5mm Glass pannel shutter	m2	10529.53	10589.44	1579.42	12108.95	
	Sal wood for Door & Window 6mm Glass pannel shutter	m2	10670.75	10730.66	1600.61	12271.36	
	Local wood for Door & Window 3mm Glass pannel shutter	m2	6929.41	6989.32	1039.41	7968.82	
	Local wood for Door & Window 4mm Glass pannel shutter	m2	7018.33	7078.24	1052.74	8071.07	
	Local wood for Door & Window 5mm Glass pannel shutter	m2	7070.64	7130.55	1060.59	8131.23	
	Local wood for Door & Window 6mm Glass pannel shutter	m2	7211.86	7271.77	1081.77	8293.63	
	flush door shutter						
	38mm thick sal wood frame both side water proof 4mm plywood	m2	8347.54	8479.33	1252.13	9599.67	
	38mm thick sal wood frame both side water proof 6mm plywood	m2	8948.73	9080.52	1342.30	10291.03	
	38mm thick sal wood frame both side water proof 8mm plywood	m2	9037.79	18118.31	1355.66	10393.45	
	38mm thick sal wood frame both side water proof 12mm plywood	m2	9549.91	27668.22	1432.48	10982.39	
	38mm thi. local wood frame both side water proof 4mm plywood	m2	5921.45	6053.24	888.21	6809.66	
	38mm thi. local wood frame both side water proof 6mm plywood	m2	6522.64	6654.43	978.39	7501.03	
	38mm thi.locall wood frame both side water proof 8mm plywood	m2	6611.71	6743.50	991.75	7603.46	
	38mm thi.local wood frame both side water proof 12mm plywood	m2	7123.83	7255.62	1068.57	8192.40	
	38mm thick Sal wood frame both side 4mm tik plywood	m2	9171.39	9410.28	1375.70	10547.09	
	38mm thick local wood frame both side 4mm tik plywood	m2	6745.31	6984.20	1011.79	7757.10	
	38mm thick Sal wood frame both side 0.35mm GI plain sheet	m2	8097.45	8196.72	1214.61	9312.06	
	38mm thick Sal wood frame both side 0.35mm GI colour sheet	m2	8875.98	8975.25	1331.39	10207.37	
	38mm thick local wood frame both side 0.35mm GI plain sheet	m2	5655.69	5754.96	848.35	6504.04	
	38mm thick local wood frame both side 0.35mm GI colour sheet	m2	8875.98	8975.25	1331.39	10207.37	
	38mm thick Sal wood frame both side Aluminium plain sheet	m2	8436.60	8579.97	1265.49	9702.09	
	38mm thick local wood frame both side Aluminium plain sheet	m2	6010.52	6153.89	901.57	6912.09	
	Beam & Dalin						
	Sal wood work for Beam & Dalin	m3	248854.76		37328.21	286182.97	
	Local wood work for Beam & Dalin	m3	83568.91		12535.33	96104.24	
	25mm thick Sal wood work for Evase board	m2	6105.04		915.75	7020.79	
	25mm thick Local wood work for Evase board	m2	1776.12		266.41	2042.53	
	mosquito proof shutter						
	38mm thick Sal wood frame with 24 gauge mosquito proof shutter	m2	5909.25	5980.46	886.38	6795.63	
	38mm thi. local wood frame with 24 gauge mosquito proof shutter	m2	4086.19	4157.40	612.92	4699.11	
	38mm thi. Sal wood frame24 gauge steel gali mosquito proof shu.	m2	6052.52	6123.73	907.87	6960.39	
	38mm thi. local wood frame24 gauge steel gali mosquito proof	m2	4229.45	4300.66	634.41	4863.86	
	wood frame 24 gauge mosquito proof plain gali Fitting & fixing	m2	460.15	475.62	69.02	529.17	
	wood frame 24 gauge mosquito proof steel gali Fitting & fixing	m2	611.15	646.25	91.67	702.82	
	Glass Fitting & fixing						
	wood frame with 3mm thick Glass Fitting & fixing work	m2	900.15	972.82	135.02	1035.17	
	wood frame with 4mm thick Glass Fitting & fixing work	m2	1082.90	1179.33	162.43	1245.33	
	wood frame with 5mm thick Glass Fitting & fixing work	m2	1190.40	1300.80	178.56	1368.96	
	wood frame with 6mm thick Glass Fitting & fixing work	m2	1480.65	1628.79	222.09	1702.74	
	ply Fitting & fixing work						
	wood frame with commercial 4mm ply Fitting & fixing work	m2	620.65	656.99	93.09	713.74	
	wood frame with commercial 6mm ply Fitting & fixing work	m2	910.90	984.97	136.63	1047.53	
	wood frame with commercial 8mm ply Fitting & fixing work	m2	953.90	1033.56	143.08	1096.98	
	wood frame with commercial 12mm ply Fitting & fixing work	m2	1201.15	1312.95	180.17	1381.32	
	Sunmaika & formaika laminated						
	Sunmaika laminated one side fitting & fixing work	m2	332.63	355.56	49.89	382.52	
	formaika laminated one side fitting & fixing work	m2	1059.21	1176.60	158.88	1218.09	
	wood false ceiling						
	Local wood false ceiling work for 4mm commercial ply	m2	2022.63	2060.92	303.39	2326.02	
	Local wood false ceiling work for 6mm commercial ply	m2	2328.54	2407.26	349.28	2677.82	
	Local wood false ceiling work for 8mm commercial ply	m2	2373.86	2458.52	356.07	2729.93	
	wood truss						
	Sal wood Truss fitting & jointing work	m3	270777.96		40616.69	311394.65	
	Local wood Truss fitting & jointing work	m3	105492.11		15823.81	121315.92	
16	Almunium Door/Window/Partition						
	Almunium sliding windows section (10.1*45*1.50) mm with 5 mm glass						
	with ventilators	sq.ft		626.98		638.07	

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			Actual rate	With VAT rate	Contractor's Overhead15%	Rate with Contractor's Overhead	
	without ventilators	sq.ft		672.53		684.43	
	Casement double panel almunium windows section size(88*45*1.1)mm & 38*34*1.10with 5 mm glass with ventilators	sq.ft		483.12		491.67	
	Almunium sliding door with naturally anodized colour section (78*38*1.3)mm (40*45*1.5) mm and 5 mm glass	sq.ft		483.12		491.67	
	Casement door of almunium section in naturally anodized colour section size (100*38*1.3)mm and 5 mm glass	sq.ft		535.86		545.35	
	Almunium partition with 5 mm thick glass and 9 mm thick laminated board of section(101*45*1.2)	sq.ft		568.24		578.30	
	Almunium partition with 5 mm thick glass and 9 mm thick laminated board of section(64*38*1.2)	sq.ft		538.26		547.79	
17	UPVC Door/Window/Partition						
	UPVC sliding window with net (frame 50*80)mm sash 58*36 mm white colour with 5 mm glass	sq.m		8152.95		8297.25	
	UPVC sliding window without net (frame 60*60 mm) sash 66*42 mm white colour with 5 mm glass	sq.m		7530.32		76663.60	
	UPVC Casement window (frame 60*60 mm sash 60*78 mm) white colour with 5 mm glass	sq.m		8467.09		8616.95	
	UPVC single door with halfpanel half glass (frame 60*600mm,sash 60*104 mm)white colour with 5mm glass	sq.m		9281.82		9446.10	
	UPVC single door withfull panel(frame 60*600mm,sash 60*104 mm)white colour with 5mm glass	sq.m		9410.64		9577.20	
	UPVC sliding door frame (52*88 mm,sash 88*42 mm)white colour with 5 mm glass with net	sq.m		10038.92		10216.60	
	UPVC swing door with half glass half UPVC panel (frame	sq.m		11289.83		11489.65	
	UPVC partition with 5 mm thick glass and 9 mm thick prelamined board of						
	section (110*54 mm) white colour	sq.m		11698.89		11905.95	
	section (60*60 mm) white colour	sq.m		12110.21		12324.55	
	UPVC full Partition with 9 mm laminated board	sq.m		9410.64		9577.20	
18	Flooring work						
	38mm thick(1.5") P:C:C(1:2:4) flooring with cement punning	m2	690.90	713.22	103.63	794.53	
	50mm thick(2") P:C:C(1:2:4) flooring with cement punning	m2	841.28	870.47	126.19	967.47	
	75mm thick(3") P:C:C(1:2:4) flooring with cement punning	m2	1120.77	1165.41	168.11	1288.88	
	25mm thick mosaic tile flooring with 20mm thick PCC(1:2:4) over 5mm thick (1:1) white cement & marbel chips	m2	2174.13	2217.24	326.11	2500.24	
	25mm thick mosaic tile flooring with 19mm thick cement plaster1:2 over 6mm thick (1:1) white cement & marbel chips	m2	4141.53	4196.17	621.22	4762.75	
	20mm thick mosaic tile flooring with 12.5mm thick cement plaster1:2 over 6mm thick (1:1) white cement & marbel chips	m2	4157.98	4216.49	623.69	4781.67	
	20mm thick teraijo tile flooring with 20mm thick c/s mortar	m2	4278.32	4488.35	641.74	4920.06	
	Porcelain glazed tile in1:4 cement sand mortar	m2	3160.41	3309.68	474.06	3634.47	
	50mm thick stone paving work in cement sand 1:4	m2	2164.53	2175.34	324.67	2489.20	
	50mm thick stone paving work with sand mixing	m2	1993.95		299.09	2293.04	
	25-37.5mm thick stone paving work in cement sand 1:4	m2	1811.66	1821.96	271.74	2083.40	
	Flat brick paving work in cement sand 1:2	m2	1369.16	1382.55	205.37	1574.53	
	Vertical brick paving work in cement sand 1:6 with joint filling 1:2 c/s pointing work	m2	1690.90	1711.67	253.63	1944.53	
	Dry flat brick paving with sand mixing work	m2	988.25		148.23	1136.48	
	Dry flat brick paving without sand	m2	805.04				
	Dry vertical brick paving with sand mixing work	m2	1736.18		120.76	925.80	
	50mm thick Heavy duty interlocking block paving with stone dust (for 1m2)	m2	1822.84	2059.81	273.43	2096.27	
	60mm thick Heavy duty interlocking block paving with stone dust (for 1m2)	m2	1846.50	2086.55	276.98	2123.48	
	13 mm thick Marble flooring on 20 mm thick floor 1:2 cement sand mortar ratio with rubbing and polishing all complete	m2	4513.79	4817.83	677.07	5190.86	
	16 mm thick Marble flooring on 20 mm thick floor 1:2 cement sand mortar ratio with rubbing and polishing all complete	m2	4681.63	5010.29	702.24	5383.87	
	12 mm thick Granite flooring on 20 mm thick floor 1:2 cement sand mortar ratio with rubbing and polishing all complete	m2	5685.34	6141.68	852.80	6538.14	
	19mm thick Granite flooring on 20 mm thick floor 1:2 cement sand mortar ratio with rubbing and polishing all complete	m2	7318.40	7987.04	1097.76	8416.16	
19	Roofing Work						
	C. G. I. Plain Sheet for Ridge fitting work	m2	1051.96	1075.54	157.79	1209.75	
	C. G. I. colour Sheet for Ridge fitting work	m2	1503.01	1585.23	225.45	1728.46	
	Slate Stone Roofing Work	m2	3993.80		599.07	4592.87	
	C. G. I. 24 Gauge Plain Sheet for roofing work	m2	1143.07	1243.07	171.46	1314.53	

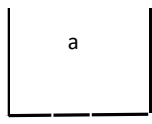
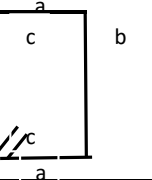
S.No	Discription of Work	Unit	Users committee rate		Contractor's rate		Remarks
			Actual rate	With VAT rate	Contractor's Overhead15%	Rate with Contractor's Overhead	
C. G. I. 28 Gauge Plain Sheet for roofing work	m2	818.92	876.78	122.83	941.75		
C. G. I. 24 Gauge colour Sheet for roofing work	m2	1364.65	1493.45	204.69	1569.34		
C. G. I. 26 Gauge colour Sheet for roofing work	m2	1071.17	1161.82	160.67	1231.84		
C. G. I. 28 Gauge colour Sheet for roofing work	m2	925.95	997.72	138.89	1064.84		
C. G. I. Plain Sheet for Gutter with iron braket fitting work	Rm	782.06	797.98	117.30	899.36		
C. G. I. colour Sheet for Gutter with iron braket fitting work	Rm	1086.52	1142.01	162.97	1249.49		
Clay tile for roofing work	m2	457.50	491.62	68.62	526.12		
Clay tile for roofing ridge work	Rm	273.00	491.40	40.95	313.95		
8mm thick khar roofing work	m2	1058.28		158.74	1217.02		
15mm thick khar roofing work	m2	1436.88		215.53	1652.41		
Fiber glass roofing work	m2	2476.53	2749.88	371.47	2848.00		
Fiber glass roofing Ridge fitting work	Rm	2615.89	2889.24	392.38	3008.27		
UPVC roofing sunrise or equivalent brand (3 mm)thick							
PMMA coating & mesh regular	sq.m	1978.20	2235.37	296.73	2274.93		
PMMA coating & mesh tile	sq.m	1593.00	1800.09	238.95	1831.95		
UPVC ridge cover regular profile 1.10 r.m	r.m	2021.00	2283.73	303.15	2324.15		
UPVC ridge covertile profile 0.78 r.m	r.m	2021.00	2283.73	303.15	2324.15		
20 Painting Work							
One coat water proof cement painting work for wall & other place	m2	95.70	98.58	14.35	110.05		
Two coat new surface water proof cement painting work for wall &	m2	173.50	178.31	26.02	199.52		
Old surface water proof cement painting work for wall & other place	m2	25.03	25.99	3.75	28.78		
Washable Distemper painting two coat with primer work wall &	m2	122.06	127.00	18.30	140.36		
Washable Distemper painting three coat with primer for wall & other	m2	171.41	177.85	25.71	197.12		
Readymade enamel painting one coat with primer	m2	221.29	231.72	33.19	254.48		
Readymade enamel painting two coat with primer	m2	334.23	349.59	50.13	384.36		
Readymade enamel painting one coat	m2	126.78	133.12	19.01	145.79		
Readymade enamel painting two coat	m2	239.72	250.99	35.95	275.67		
Two coat Aluminum & one coat primer painting	m2	308.68	319.42	46.30	354.98		
One coat Aluminum painting	m2	109.35	113.30	16.40	125.75		
Two coat Aluminum painting	m2	223.81	231.71	33.57	257.38		
Weather painting one coat	m2	136.68	144.30	20.50	157.18		
Weather painting two coat	m2	257.32	270.88	38.59	295.91		
Chapra painting three coat	m2	204.38	207.92	30.65	235.03		
Tata redoxide painting one coat	m2	116.70	127.23	17.50	134.20		
Tata redoxide painting two coat	m2	204.45	221.47	30.66	235.11		
Emulsion painting (interior)two coat	m2	240.04	251.35	36.00	276.04		
Emulsion painting (interior)one coat	m2	126.96	133.32	19.04	146.00		
21 Iron Works							
Fabrication of all different types iron work with painting	Kg	175.49	187.82	26.32	201.81		
Fabrication of all different types iron truss work with painting	Kg	176.20	188.62	26.43	202.63		
MS Iron min 5 mm thick grill work with one coat red oxide painting	kg	143.00	161.59	21.45	164.45		
MS iron grill av.wt per sq.ft 1 kg							
16-18 gauge rolling shutter fabrication and fitting work with one coat red oxide painting	sq.ft	385.00	435.05	57.75	442.75		
3"-4" dia Iron black pipe spiral staircase fabriction and fitting work with one coat red oxide painting flor to floor height	r.ft	3355.00	3791.15	503.25	3858.25		
Stainless steel railing work with 2" dia handrail and vertical post with 3 layers 1" dia horizontal pipes all complete	r.ft	1168.00	1319.84	175.20	1343.20		
GI Kande tar for barbed fencing work	Rm	61.83	69.87	9.27	71.10		
GI Kande tar for barbed fencing 3m length of sal wooden post size0.075*0.10*2.1m straight 5 line & diagonally 2 line work	Rm	1462.67	1462.67	219.40	1682.07		
GI Kande tar for barbed fencing 3m length of local wooden post size0.075*0.10*2.1m straight 5 line & diagonally 2 line work	Rm	465.71	465.71	69.85	535.56		
Iron angle for compound wall 2m length of iron post 1.5" dia.angle size25*25*4mm frame over 3*20 grill pata 0.15m hight with chain link 2"*2" fitting work	m2	2818.76	3017.48	422.81	3241.57		
Iron angle for compound wall 2m length of iron post 1.5" dia.angle size25*25*4mm frame over 3*20 grill pata 0.15m hight with 7mm dia. Rod diagonally 62*62mm size fitting work	m2	2645.39	2821.57	396.80	3042.19		
22 Water proofing Works							
Damp proofing 2cm thick cement sand mortar 1:2	m2	482.89	517.33	72.43	555.32		

S.No	Discription of Work	Unit	Users committee rate		Contractor's rate		Remarks
			Actual rate	With VAT rate	Contractor's Overhead15%	Rate with Contractor's Overhead	
	Damp proofing 2.5cm thick concrete 1:1.5:3	m2	580.32	608.93	87.04	667.36	
	Damp proofing 3.8cm thick concrete 1:2:4	m2	729.62	762.23	109.44	839.06	
	Damp proofing one coat bitumen paint with sand filling work	m2	229.75	244.70	34.46	264.21	
23	Furniture Works						
	Fabrication of all different types iron angle jointed type Desk (1.52*0.25*0.70m) bench(1.52m*0.25*0.40m) with planking						
	iron angle size(30*20*3mm)	set	4568.82	4792.47	685.32	5254.14	
	iron angle size(30*20*4mm)	set	5038.02	5322.66	755.70	5793.72	
	iron angle size(40*25*3mm)	set	5194.42	5499.40	779.16	5973.58	
	iron angle size(40*25*4mm)	set	5820.02	6206.32	873.00	6693.02	
	sal wood furniture jointed type	set	13773.56		2066.03	15839.59	
	Local wood furniture jointed type	set	5902.81		885.42	6788.23	
	sal wood furniture Non- jointed type	set	11625.00		1743.75	13368.75	
	Local wood furniture Non- jointed type	set	5328.40		799.26	6127.66	
24	Water supply Works						
	HDPE Pipe & GI Pipe Line Jointing Work						
	HDPE Pipe 16,20,25mm dia.	Rm	4.04		0.60	4.64	
	HDPE Pipe 32mm dia.	Rm	4.94		0.74	5.68	
	HDPE Pipe 40,50mm dia.	Rm	6.06		0.90	6.96	
	HDPE Pipe 63,75,90mm dia.	Rm	80.17		12.02	92.19	
	HDPE Pipe 110,125mm dia.	Rm	120.24		18.03	138.27	
	GI Pipe 15,20mm dia.(0.50",0.75")	Rm	83.33		12.49	95.82	
	GI Pipe 25,32mm dia.(1",1.25")	Rm	115.00		17.25	132.25	
	GI Pipe 40,50mm dia.(1.5",2")	Rm	156.67		23.50	180.17	
	GI Pipe 63,80mm dia.(2.5",3")	Rm	206.67		31.00	237.67	
	Bitumen painting work two coat	m2	88.80		13.32	102.12	
	Snowcem painting work two coat	m2	169.00		25.35	194.35	
	One layer of polythene sheet of 500 gauge	m2	132.82		19.92	152.74	
	wooden Entrance gate with barbed wire fencing work	set	5101.25		765.18	5866.43	
	Ferrocement tank form work	m2	378.77		56.81	435.58	
	Ferrocement tank steel bar binding with chicken wire & gabion wire work	m2	993.74	1040.72	149.06	1142.80	
25	Road construction Works						
	Gabion works (fabrication,cutting,weaving,assembling etc.Mesh size 100mm*120mm, mesh wire 10 SWG, selvedge wire 7 SWG, binding wire 12 SWG)Light/Commercial						
	Box size- 2*1*1m	m3	1754.76	1935.48	263.21	2017.97	
	Box size- 3*1*1m	m3	1690.94	1865.12	253.64	1944.58	
	Box size- 2*1*0.50m	m3	2454.24	2707.76	368.13	2822.37	
	Box size- 3*1*0.50m	m3	2379.12	2625.21	356.86	2735.98	
	Gabion works (fabrication,cutting,weaving,assembling etc.Mesh size 100mm*120mm, mesh wire 10 SWG, selvedge wire 7 SWG, binding wire 12 SWG)Medium						
	Box size- 2*1*1m	m3	1788.93	1974.28	268.33	2057.26	
	Box size- 3*1*1m	m3	1724.08	1902.75	258.61	1982.69	
	Box size- 2*1*0.50m	m3	2500.85	2760.69	375.12	2875.97	
	Box size- 3*1*0.50m	m3	2424.68	2676.95	363.70	2788.38	
	Gabion works (fabrication,cutting,weaving,assembling etc.Mesh size 100mm*120mm, mesh wire 10 SWG, selvedge wire 7 SWG, binding wire 12 SWG)Heavv						
	Box size- 2*1*1m	m3	1890.56	2089.12	283.58	2174.14	
	Box size- 3*1*1m	m3	1821.80	2013.17	273.27	2095.07	
	Box size- 2*1*0.50m	m3	2644.84	2923.40	396.72	3041.56	
	Box size- 3*1*0.50m	m3	2564.06	2834.44	384.60	2948.66	
	Machine made gabion boxes						
	Filling of Gabion box with rubble stone	m3	5027.47		754.12	5781.59	
	Providing & Laying of 900mm dia.NP3 Hume pipe	Rm	11495.25	12948.68	1724.28	13219.53	
	Providing & Laying of 750mm dia.NP3 Hume pipe	Rm	7146.75	8040.72	1072.01	8218.76	
	Providing & Laying of 600mm dia.NP3 Hume pipe	Rm	5919.00	6659.22	887.85	6806.85	
	Providing & Laying of 450mm dia.NP3 Hume pipe	Rm	4314.75	4852.26	647.21	4961.96	
	Providing & Laying of 300mm dia.NP3 Hume pipe	Rm	3016.50	3391.09	452.47	3468.97	

S.No	Discription of Work	Unit	Users committee rate		Contractor's rate		Remarks
			Actual rate	With VAT rate	Contractor's Overhead15%	Rate with Contractor's Overhead	
	Graveling work with river gravel for Collection, Screening , spreading & Loading/unloading Transportation by truck with compaction with roller	m3	3537.53		530.62	4068.15	
	Graveling work with natural quarry gravel for Collection, Screening , spreading & Loading/unloading Transportation by truck with compaction 8-10 Ton roller	m3	2775.94		416.39	3192.33	
	Gravelling work with crusher base gravel Collection, Screening , spreading & Loading/unloading Transportation by truck with compaction 8-10 Ton roller (per m3)	m3	3453.67		518.05	3971.72	
	Gravel compaction only 8-10 Ton roller	m3	153.36		23.00	176.36	
26	Road Upgrading Works(for Asphalt and Premix)						
	Preparation of subgrade for rehabilitation by filling or cutting gravel and boulder mix soil 10 cm to 20 cm. (per m2)	m2	47.58		7.13	54.71	
	Providing ,laying ,spreading,watering ,levelling and compaction of natural gravel subbase	m3	2891.67	for asphalt/premix	433.75	3325.42	
	Providing ,laying ,spreading,watering ,levelling and compaction of crusher gravel 63 mm down for subbase	m3	3759.16		563.87	4323.03	
	Construction of Stone Edging	Rm	218.94		32.84	251.78	
	Precast Cement Concrete M20 Kerb stone laying works spec.1401,size 38*20*25 cm with 12 mm thick 1:3 c/s mortar bedding and ioin including foundation excavtion ,levelling	Rm	1274.34		191.15	1465.49	
	Construction of Base Course using crushed stone with binding material forming water bound macadam(per m3)	m3	4139.53		620.92	4760.45	
	Application of Prime coat manually	m2	125.31		18.79	144.10	
	Application of Prime coat Mechanically	m2	145.23		21.78	167.01	
	Application of Tack coat Manually	m2	136.64		20.49	157.13	
	Application of Tack coat Mechanically	m2	102.48		15.37	117.85	
	Providing and Laying of opened graded Premix Carpet(per m3)by manual means as perDOR Norms 13.9&Specification No 1311 (per m3)	m3	17296.48		2594.47	19890.95	
	Laying of Seal Coat using coarse sand with full compaction	m2	114.84		17.22	132.06	
	Providing, Mixing and Laying of Bituminous concrete/ Asphalt Concrete as per DoR Norms 13.6 & Specification clause no.1309(per m3)	m3	26053.77		3908.06	29961.83	
	Excavation of metallated road and removal of all materials up to 20 m lead bituminous materials as per DOR Norms.	m3	1307.40		196.11	1503.51	

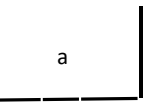
10	420	1.05	1.05	0.1	0.01	7.85375E-05	569.66	Sttirups BLOCK 3-FF
10	210	1.05	1.05	0.1	0.01	7.85375E-05	284.83	Sttirups BLOCK 3-SF

FOR FOUNDATION AND PLINTH BEAM

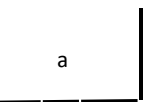
	16	24	32.98	0.96	0.96	0.016	0.000201056	2643.57	Block-1 X-Axis
	16	56	14.06	0.96	0.96	0.016	0.000201056	2824.23	Block-1 Y-Axis
	16	24	31.55	0.96	0.96	0.016	0.000201056	2535.62	Block-2 X-Axis
	16	48	14.06	0.96	0.96	0.016	0.000201056	2420.77	Block-2 Y-Axis
	16	24	32.98	0.96	0.96	0.016	0.000201056	2643.57	Block-3 X-Axis
	16	56	14.06	0.96	0.96	0.016	0.000201056	2824.23	Block-3 Y-Axis
	8	659.5	0.8	0.8	0.08	0.008	0.000050264	874.34	Block-1 X-Axis
	8	656.0	0.8	0.8	0.08	0.008	0.000050264	869.69	Block-1 Y-Axis
	8	631	0.8	0.8	0.08	0.008	0.000050264	836.56	Block-2 X-Axis
	8	562.28	0.8	0.8	0.08	0.008	0.000050264	745.45	Block-2 Y-Axis
	8	659.5	0.8	0.8	0.08	0.008	0.000050264	874.34	Block-3 X-Axis
	8	656.0	0.8	0.8	0.08	0.008	0.000050264	869.69	Block-3 Y-Axis

FOR MAIN BEAM

TOP BAR-THROUGH

	BLOCK 1								
	20	9	1.2	32.98	1.2	0.02	0.00031415	785.14	GF X-axis
	20	21	1.2	14.06	1.2	0.02	0.00031415	852.27	GF Y-axis
	20	6	1.2	32.98	1.2	0.02	0.00031415	523.42	FF X-axis
	20	21	1.2	5.80	1.2	0.02	0.00031415	424.66	FF Y-axis
	20	3	1.2	32.98	1.2	0.02	0.00031415	261.71	SF X-axis
	BLOCK 2								
	20	9	1.2	31.55	1.2	0.02	0.00031415	753.51	GF X-axis
	20	18	1.2	14.06	1.2	0.02	0.00031415	730.52	GF Y-axis
	20	6	1.2	31.55	1.2	0.02	0.00031415	502.34	FF X-axis
	20	18	1.2	5.80	1.2	0.02	0.00031415	363.99	FF Y-axis
	20	3	1.2	31.55	1.2	0.02	0.00031415	251.17	SF X-axis
	20	3	1.2	8.94	1.2	0.02	0.00031415	83.90	SF X-axis
	20	6	1.2	9.30	1.2	0.02	0.00031415	173.12	SF Y-axis
	BLOCK 3								
	20	9	1.2	32.98	1.2	0.02	0.00031415	785.14	GF X-axis
	20	21	1.2	14.06	1.2	0.02	0.00031415	852.27	GF Y-axis
	20	6	1.2	32.98	1.2	0.02	0.00031415	523.42	FF X-axis
	20	21	1.2	5.80	1.2	0.02	0.00031415	424.66	FF Y-axis
	20	3	1.2	32.98	1.2	0.02	0.00031415	261.71	SF X-axis

BOTTOM BAR-THROUGH

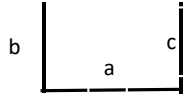
	BLOCK 1								
	20	9	1.2	32.98	1.2	0.02	0.00031415	785.14	GF X-axis
	20	21	1.2	14.06	1.2	0.02	0.00031415	852.27	GF Y-axis
	20	6	1.2	32.98	1.2	0.02	0.00031415	523.42	FF X-axis
	20	21	1.2	5.80	1.2	0.02	0.00031415	424.66	FF Y-axis
	20	3	1.2	32.98	1.2	0.02	0.00031415	261.71	SF X-axis
	BLOCK 2								
	20	9	1.2	31.55	1.2	0.02	0.00031415	753.51	GF X-axis
	20	18	1.2	14.06	1.2	0.02	0.00031415	730.52	GF Y-axis

20	6	1.2	31.55	1.2	0.02	0.00031415	502.34	FF X-axis
20	18	1.2	5.80	1.2	0.02	0.00031415	363.99	FF Y-axis
20	3	1.2	31.55	1.2	0.02	0.00031415	251.17	SF X-axis
20	3	1.2	8.94	1.2	0.02	0.00031415	83.90	SF X-axis
20	6	1.2	9.30	1.2	0.02	0.00031415	173.12	SF Y-axis

BLOCK 3								
20	9	1.2	32.98	1.2	0.02	0.00031415	785.14	GF X-axis
20	21	1.2	14.06	1.2	0.02	0.00031415	852.27	GF Y-axis
20	6	1.2	32.98	1.2	0.02	0.00031415	523.42	FF X-axis
20	21	1.2	5.80	1.2	0.02	0.00031415	424.66	FF Y-axis
20	3	1.2	32.98	1.2	0.02	0.00031415	261.71	SF X-axis

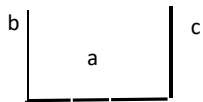
INCLINED MAIN BAR

BLOCK 1								
20	42	1.2	13.20	1.2	0.02	0.00031415	1615.77	Inclined Beam Y-axis
BLOCK 2								
20	36	1.2	13.20	1.2	0.02	0.00031415	1384.95	Inclined Beam Y-axis
BLOCK 3								
20	42	1.2	13.20	1.2	0.02	0.00031415	1615.77	Inclined Beam Y-axis



Secondary beam

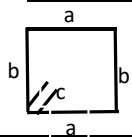
BLOCK 1								
16	6	0.96	32.48	0.96	0.016	0.000201056	325.71	GF X-axis
16	12	0.96	3.60	0.96	0.016	0.000201056	104.55	GF X-axis
16	36	0.96	5.80	0.96	0.016	0.000201056	438.64	GF Y-axis
16	24	0.96	13.20	0.96	0.016	0.000201056	572.73	Inclined Beam Y-axis
BLOCK 2								



16	6	0.96	31.05	0.96	0.016	0.000201056	312.22	GF X-axis
16	24	0.96	5.80	0.96	0.016	0.000201056	292.43	GF Y-axis
16	6	0.96	8.94	0.96	0.016	0.000201056	102.85	FF X-axis
16	24	0.96	13.20	0.96	0.016	0.000201056	572.73	Inclined Beam Y-axis

BLOCK 3

16	6	0.96	32.48	0.96	0.016	0.000201056	325.71	GF X-axis
16	12	0.96	3.60	0.96	0.016	0.000201056	104.55	GF X-axis
16	36	0.96	5.80	0.96	0.016	0.000201056	438.64	GF Y-axis
16	24	0.96	13.20	0.96	0.016	0.000201056	572.73	Inclined Beam Y-axis



8	12737	0.64	0.94	0.08	0.008	0.000050264	8342.49	ALL GRIDS
8	3705	0.44	0.44	0.08	0.008	0.000050264	1403.57	SECONDARY BEAM

FOR SLAB

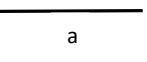
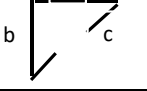
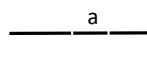
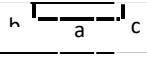
	10	39	32.475			0.01	7.85375E-05	774.16	MAIN BAR-BLOCK 1-GF grid AB
	10	217	5.8			0.01	7.85375E-05	774.16	DISTRIBUTION BAR-BLOCK 1-GF grid AB
	10	15	32.475			0.01	7.85375E-05	296.99	MAIN BAR-BLOCK 1-GF grid cantilever
	10	217	2.225			0.01	7.85375E-05	296.99	DISTRIBUTION BAR-BLOCK 1-GF cantilever
	10	39	5.5			0.01	7.85375E-05	262.23	MAIN BAR-BLOCK 1-GF grid BC
	10	37	5.8			0.01	7.85375E-05	262.23	DISTRIBUTION BAR-BLOCK 1-GF grid BC
	10	217	1.74	0.1	0.1	0.01	7.85375E-05	258.94	TOP BAR-BLOCK 1-GF grid AB
	10	39	9.7425	0.1	0.1	0.01	7.85375E-05	237.02	TOP BAR-BLOCK 1-GF grid AB
	10	217	2.225	0.1	0.1	0.01	7.85375E-05	323.68	TOP BAR-BLOCK 1-GF cantilever
	10	15	9.7425	0.1	0.1	0.01	7.85375E-05	90.92	TOP BAR-BLOCK 1-GF Cantilever
	10	37	1.74	0.1	0.1	0.01	7.85375E-05	87.71	TOP BAR-BLOCK 1-GF grid BC
	10	39	1.65	0.1	0.1	0.01	7.85375E-05	88.20	TOP BAR-BLOCK 1-GF grid BC

	10	39	31.05				0.01	7.85375E-05	740.19	MAIN BAR-BLOCK 2-GF grid AB
	10	207	5.8				0.01	7.85375E-05	740.19	DISTRIBUTION BAR-BLOCK 2-GF grid AB
	10	207	1.74	0.1	0.1	0.01	7.85375E-05	247.58		TOP BAR-BLOCK 2-GF grid AB
	10	39	9.315	0.1	0.1	0.01	7.85375E-05	226.83		TOP BAR-BLOCK 2-GF grid AB
	10	15	31.05				0.01	7.85375E-05	283.95	MAIN BAR-BLOCK 2-CANTILEVER
	10	207	2.225				0.01	7.85375E-05	283.95	DISTRIBUTION BAR-BLOCK 2-CANTILEVER
	10	207	2.225	0.1	0.1	0.01	7.85375E-05	309.48		TOP BAR-BLOCK 2-CANTILEVER
	10	15	31.05	0.1	0.1	0.01	7.85375E-05	285.78		TOP BAR-BLOCK 2-CANTILEVER
	10	62	8.941				0.01	7.85375E-05	343.23	MAIN BAR-BLOCK 2-TF
	10	60	9.34				0.01	7.85375E-05	343.23	DISTRIBUTION BAR-BLOCK 2-TF
	10	60	2.802	0.1	0.1	0.01	7.85375E-05	110.32		TOP BAR-BLOCK 2-TF
	10	62	2.6823	0.1	0.1	0.01	7.85375E-05	110.65		TOP BAR-BLOCK 2-TF
	10	39	32.475				0.01	7.85375E-05	774.16	MAIN BAR-BLOCK 3-GF grid AB
	10	217	5.8				0.01	7.85375E-05	774.16	DISTRIBUTION BAR-BLOCK 3-GF grid AB
	10	15	32.475				0.01	7.85375E-05	296.99	MAIN BAR-BLOCK 3-GF grid cantilever
	10	217	2.225				0.01	7.85375E-05	296.99	DISTRIBUTION BAR-BLOCK 3-GF cantilever
	10	39	5.5				0.01	7.85375E-05	262.23	MAIN BAR-BLOCK 3-GF grid BC
	10	37	5.8				0.01	7.85375E-05	262.23	DISTRIBUTION BAR-BLOCK 3-GF grid BC
	10	217	1.74	0.1	0.1	0.01	7.85375E-05	258.94		TOP BAR-BLOCK 3-GF grid AB
	10	39	9.7425	0.1	0.1	0.01	7.85375E-05	237.02		TOP BAR-BLOCK 3-GF grid AB
	10	217	2.225	0.1	0.1	0.01	7.85375E-05	323.68		TOP BAR-BLOCK 3-GF cantilever
	10	15	9.7425	0.1	0.1	0.01	7.85375E-05	90.92		TOP BAR-BLOCK 3-GF Cantilever
	10	37	1.74	0.1	0.1	0.01	7.85375E-05	87.71		TOP BAR-BLOCK 3-GF grid BC
	10	39	1.65	0.1	0.1	0.01	7.85375E-05	88.20		TOP BAR-BLOCK 3-GF grid BC
	10	88	32.525				0.01	7.85375E-05	1764.60	MAIN BAR-BLOCK 1-Sitting slab

	10	217	13.2				0.01	7.85375E-05	1764.60	DISTRIBUTION BAR-BLOCK 1-Sitting slab	
	10	217	3.96	0.1	0.1	0.01	7.85375E-05	556.12	556.12	TOP BAR-BLOCK 1-Sitting slab	
	10	88	9.7575	0.1	0.1	0.01	7.85375E-05	540.23	540.23	TOP BAR-BLOCK 1-Sitting slab	
	10	88	31.05				0.01	7.85375E-05	1684.58	1684.58	MAIN BAR-BLOCK 2-Sitting slab
	10	207	13.2				0.01	7.85375E-05	1684.58	1684.58	DISTRIBUTION BAR-BLOCK 2-Sitting slab
	10	207	3.96	0.1	0.1	0.01	7.85375E-05	530.90	530.90	TOP BAR-BLOCK 2-Sitting slab	
	10	88	9.315	0.1	0.1	0.01	7.85375E-05	516.22	516.22	TOP BAR-BLOCK 2-Sitting slab	
	10	88	32.525				0.01	7.85375E-05	1764.60	1764.60	MAIN BAR-BLOCK 3-Sitting slab
	10	217	13.2				0.01	7.85375E-05	1764.60	1764.60	DISTRIBUTION BAR-BLOCK 1-Sitting slab
	10	217	3.96	0.1	0.1	0.01	7.85375E-05	556.12	556.12	TOP BAR-BLOCK 1-Sitting slab	
	10	88	9.7575	0.1	0.1	0.01	7.85375E-05	540.23	540.23	TOP BAR-BLOCK 3-Sitting slab	

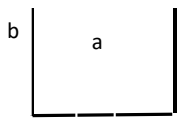
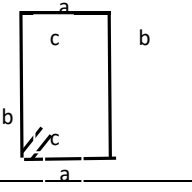
FOR STAIRCASE

	12	75	2.825	1.5	1.5	0.012	0.000113094	779.15	779.15	Main Bar	
	12	38	0.855	1.5	0	0.012	0.000113094	157.50	157.50	Main Bar	
	12	38	0	0.855	1.5	0.012	0.000113094	157.50	157.50	Main Bar	
	10	78	1.5				0.01	7.85375E-05	143.65	143.65	Distribution Bar
	8	78	0.3	0.15	0.08	0.008	0.000050264	32.62	32.62	Nosing	
	12	85	7.846	1.659	3.08	0.012	0.000113094	4754.03	4754.03	Main Bar Spectator Stair	
	12	43	1.659	1.05	0	0.012	0.000113094	511.67	511.67	Main Bar Spectator Stair	
	12	43	0	1.05	1.659	0.012	0.000113094	511.67	511.67	Main Bar Spectator Stair	

									
a	10	84	1.5			0.01	7.85375E-05	387.94	Distribution Bar Spectator Stair
	8	125	0.3	0.15	0.08	0.008	0.000050264	130.70	Nosing Spectator Stair
FOR BAND									
	8	2	462			0.008	0.000050264	364.58	Main Bar
	8	3080	0.25	0.08	0.08	0.008	0.000050264	498.27	Stirrups
								384104.24	

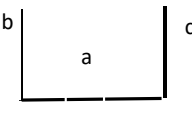
10	420	1.05	1.05	0.1	0.01	7.85375E-05	569.66	Sttirups BLOCK 3-FF
10	210	1.05	1.05	0.1	0.01	7.85375E-05	284.83	Sttirups BLOCK 3-SF

FOR FOUNDATION AND PLINTH BEAM


	16	32	32.53	0.96	0.96	0.016	0.000201056	1739.65	Block-1 X-Axis
	16	56	18.20	0.96	0.96	0.016	0.000201056	1778.29	Block-1 Y-Axis
	16	32	31.05	0.96	0.96	0.016	0.000201056	1665.16	Block-2 X-Axis
	16	48	18.20	0.96	0.96	0.016	0.000201056	1524.25	Block-2 Y-Axis
	16	32	32.53	0.96	0.96	0.016	0.000201056	1739.65	Block-3 X-Axis
	16	56	18.20	0.96	0.96	0.016	0.000201056	1778.29	Block-3 Y-Axis
	8	867.33	0.8	0.8	0.08	0.000050264	574.94	Block-1 X-Axis	
	8	849.3	0.8	0.8	0.08	0.000050264	563.01	Block-1 Y-Axis	
	8	828	0.8	0.8	0.08	0.000050264	548.87	Block-2 X-Axis	
	8	728	0.8	0.8	0.08	0.000050264	482.58	Block-2 Y-Axis	
	8	867.33	0.8	0.8	0.08	0.000050264	574.94	Block-3 X-Axis	
	8	849.3	0.8	0.8	0.08	0.000050264	563.01	Block-3 Y-Axis	

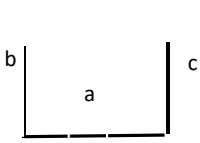
FOR MAIN BEAM

TOP BAR-THROUGH

	BLOCK 1								
	20	12	1.2	32.53	1.2	0.02	0.00031415	1033.68	GF X-axis
	20	21	1.2	18.20	1.2	0.02	0.00031415	1066.83	GF Y-axis
	20	9	1.2	32.53	1.2	0.02	0.00031415	775.26	FF X-axis
	20	21	1.2	13.20	1.2	0.02	0.00031415	807.89	FF Y-axis
	20	6	1.2	32.53	1.2	0.02	0.00031415	516.84	SF X-axis
	20	21	1.2	5.80	1.2	0.02	0.00031415	424.66	SF X-axis
	20	3	1.2	32.53	1.2	0.02	0.00031415	258.42	TF X-axis
	BLOCK 2								
	20	12	1.2	31.05	1.2	0.02	0.00031415	989.88	GF X-axis
	20	18	1.2	18.20	1.2	0.02	0.00031415	914.42	GF Y-axis
	20	9	1.2	31.05	1.2	0.02	0.00031415	742.41	FF X-axis
	20	18	1.2	13.20	1.2	0.02	0.00031415	692.47	FF Y-axis
	20	6	1.2	31.05	1.2	0.02	0.00031415	494.94	SF X-axis
	20	18	1.2	8.94	1.2	0.02	0.00031415	503.42	SF Y-axis
	20	3	1.2	9.30	1.2	0.02	0.00031415	86.56	TF X-axis
	BLOCK 3								
	20	12	1.2	32.53	1.2	0.02	0.00031415	1033.68	GF X-axis
	20	21	1.2	18.20	1.2	0.02	0.00031415	1066.83	GF Y-axis
	20	9	1.2	32.53	1.2	0.02	0.00031415	775.26	FF X-axis
	20	21	1.2	13.20	1.2	0.02	0.00031415	807.89	FF Y-axis
	20	6	1.2	32.53	1.2	0.02	0.00031415	516.84	SF X-axis
	20	21	1.2	5.80	1.2	0.02	0.00031415	424.66	SF X-axis
	20	3	1.2	32.53	1.2	0.02	0.00031415	258.42	TF X-axis

BOTTOM BAR-THROUGH

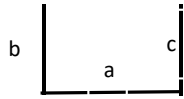
	BLOCK 1								
	20	12	1.2	32.53	1.2	0.02	0.00031415	1033.68	GF X-axis
	20	21	1.2	18.20	1.2	0.02	0.00031415	1066.83	GF Y-axis
	20	9	1.2	32.53	1.2	0.02	0.00031415	775.26	FF X-axis
	20	21	1.2	13.20	1.2	0.02	0.00031415	807.89	FF Y-axis
	20	6	1.2	32.53	1.2	0.02	0.00031415	516.84	SF X-axis
	20	21	1.2	5.80	1.2	0.02	0.00031415	424.66	SF Y-axis
	20	3	1.2	32.53	1.2	0.02	0.00031415	258.42	TF X-axis



BLOCK 2									
20	12	1.2	31.05	1.2	0.02	0.00031415	989.88	GF X-axis	
20	18	1.2	18.20	1.2	0.02	0.00031415	914.42	GF Y-axis	
20	9	1.2	31.05	1.2	0.02	0.00031415	742.41	FF X-axis	
20	18	1.2	13.20	1.2	0.02	0.00031415	692.47	FF Y-axis	
20	6	1.2	31.05	1.2	0.02	0.00031415	494.94	SF X-axis	
20	18	1.2	8.94	1.2	0.02	0.00031415	503.42	SF Y-axis	
20	3	1.2	9.30	1.2	0.02	0.00031415	86.56	TF X-axis	

BLOCK 3									
20	12	1.2	32.53	1.2	0.02	0.00031415	1033.68	GF X-axis	
20	21	1.2	18.20	1.2	0.02	0.00031415	1066.83	GF Y-axis	
20	9	1.2	32.53	1.2	0.02	0.00031415	775.26	FF X-axis	
20	21	1.2	13.20	1.2	0.02	0.00031415	807.89	FF Y-axis	
20	6	1.2	32.53	1.2	0.02	0.00031415	516.84	SF X-axis	
20	21	1.2	5.80	1.2	0.02	0.00031415	424.66	SF X-axis	
20	3	1.2	32.53	1.2	0.02	0.00031415	258.42	TF X-axis	

INCLINED MAIN BAR



BLOCK 1									
20	24	1.2	20.61	1.2	0.02	0.00031415	1361.69	Inclined Beam Y-axis	

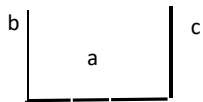
BLOCK 2									
20	30	1.2	20.61	1.2	0.02	0.00031415	1702.11	Inclined Beam Y-axis	

BLOCK 3									
20	24	1.2	20.61	1.2	0.02	0.00031415	1361.69	Inclined Beam Y-axis	

Secondary beam

BLOCK 1									
16	6	0.96	32.98	0.96	0.016	0.000201056	330.49	GF X-axis	
16	6	0.96	19.00	0.96	0.016	0.000201056	198.11	GF X-axis	

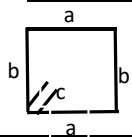
16	24	0.96	13.20	0.96	0.016	0.000201056	572.73	GF Y-axis
16	24	0.96	20.61	0.96	0.016	0.000201056	853.30	Inclined Beam Y-axis
BLOCK 2								



16	12	0.96	31.05	0.96	0.016	0.000201056	624.43	GF X-axis
16	24	0.96	13.20	0.96	0.016	0.000201056	572.73	GF Y-axis
16	24	0.96	20.61	0.96	0.016	0.000201056	853.30	Inclined Beam Y-axis

BLOCK 3

16	6	0.96	32.98	0.96	0.016	0.000201056	330.49	GF X-axis
16	6	0.96	19.00	0.96	0.016	0.000201056	198.11	GF X-axis
16	24	0.96	13.20	0.96	0.016	0.000201056	572.73	GF Y-axis
16	24	0.96	20.61	0.96	0.016	0.000201056	853.30	Inclined Beam Y-axis

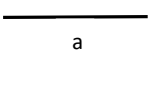
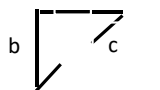
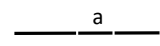
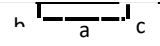


8	19050	0.64	0.94	0.08	0.008	0.000050264	12477.74	ALL GRIDS
8	5717	0.44	0.44	0.08	0.008	0.000050264	2165.71	SECONDARY BEAM

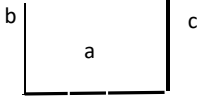
FOR SLAB

	10	88	32.98			0.01	7.85375E-05	1789.29	MAIN BAR-BLOCK 1-GF
	10	220	13.2			0.01	7.85375E-05	1789.29	DISTRIBUTION BAR-BLOCK 1-GF
	10	220	3.96	0.1	0.1	0.01	7.85375E-05	563.90	TOP BAR-BLOCK 1-GF
	10	88	9.894	0.1	0.1	0.01	7.85375E-05	547.64	TOP BAR-BLOCK 1-GF
	10	88	31.05			0.01	7.85375E-05	1684.58	MAIN BAR-BLOCK 2-GF
	10	207	13.2			0.01	7.85375E-05	1684.58	DISTRIBUTION BAR-BLOCK 2-GF
	10	207	3.96	0.1	0.1	0.01	7.85375E-05	530.90	TOP BAR-BLOCK 2-GF
	10	88	9.315	0.1	0.1	0.01	7.85375E-05	516.22	TOP BAR-BLOCK 2-GF
	10	88	32.98			0.01	7.85375E-05	1789.29	MAIN BAR-BLOCK 3-GF
	10	220	13.2			0.01	7.85375E-05	1789.29	DISTRIBUTION BAR-BLOCK 1-GF
	10	220	3.96	0.1	0.1	0.01	7.85375E-05	563.90	TOP BAR-BLOCK 1-GF
	10	88	9.894	0.1	0.1	0.01	7.85375E-05	547.64	TOP BAR-BLOCK 3-GF
	10	136	32.98			0.01	7.85375E-05	2760.25	MAIN BAR-BLOCK 1-Sitting slab

	10	220	20.363				0.01	7.85375E-05	2760.25	DISTRIBUTION BAR-BLOCK 1-Sitting slab
	10	220	6.1089	0.1	0.1	0.01	7.85375E-05	855.18		TOP BAR-BLOCK 1-Sitting slab
	10	136	9.894	0.1	0.1	0.01	7.85375E-05	844.81		TOP BAR-BLOCK 1-Sitting slab
	10	136	31.05			0.01	7.85375E-05	2598.72		MAIN BAR-BLOCK 2-Sitting slab
	10	207	20.363			0.01	7.85375E-05	2598.72		DISTRIBUTION BAR-BLOCK 2-Sitting slab
	10	207	6.1089	0.1	0.1	0.01	7.85375E-05	805.14		TOP BAR-BLOCK 2-Sitting slab
	10	136	9.315	0.1	0.1	0.01	7.85375E-05	796.35		TOP BAR-BLOCK 2-Sitting slab
	10	136	32.98			0.01	7.85375E-05	2760.25		MAIN BAR-BLOCK 3-Sitting slab
	10	220	20.363			0.01	7.85375E-05	2760.25		DISTRIBUTION BAR-BLOCK 1-Sitting slab
	10	220	6.1089	0.1	0.1	0.01	7.85375E-05	855.18		TOP BAR-BLOCK 1-Sitting slab
	10	136	9.894	0.1	0.1	0.01	7.85375E-05	844.81		TOP BAR-BLOCK 3-Sitting slab
FOR STAIRCASE										
	12	113	2.825	1.5	1.5	0.012	0.000113094	584.36		Main Bar
	12	57	0.855	1.5	0	0.012	0.000113094	118.13		Main Bar
	12	57	0	0.855	1.5	0.012	0.000113094	118.13		Main Bar
	10	78	1.5			0.01	7.85375E-05	71.82		Distribution Bar
	8	156	0.3	0.15	0.08	0.008	0.000050264	32.62		Nosing
	12	85	7.846	1.659	3.08	0.012	0.000113094	3803.22		Main Bar Spectator Stair
	12	43	1.659	1.05	0	0.012	0.000113094	409.33		Main Bar Spectator Stair
	12	43	0	1.05	1.659	0.012	0.000113094	409.33		Main Bar Spectator Stair

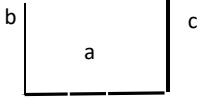
										
	10	84	1.5			0.01	7.85375E-05	310.36		Distribution Bar Spectator Stair
	8	125	0.3	0.15	0.08	0.008	0.000050264	104.56		Nosing Spectator Stair
FOR BAND										
	8	2	462			0.008	0.000050264	364.58		Main Bar
	8	3080	0.25	0.08	0.08	0.008	0.000050264	498.27		Stirrups
								507415.30		

20	3	1.2	31.16	1.2	0.02	0.00031415	248.27	Block-1 X-Axis
20	3	1.2	22.39	1.2	0.02	0.00031415	183.37	Block-2 X-Axis
20	3	1.2	13.62	1.2	0.02	0.00031415	118.49	Block-3 X-Axis
20	21	1.2	12.10	1.2	0.02	0.00031415	750.92	Block Y-Axis



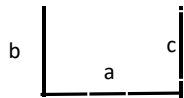
BOTTOM BAR-THROUGH

BLOCK 1								
20	3	1.2	31.16	1.2	0.02	0.00031415	248.27	Block-1 X-Axis
20	3	1.2	22.39	1.2	0.02	0.00031415	183.37	Block-2 X-Axis
20	3	1.2	13.62	1.2	0.02	0.00031415	118.49	Block-3 X-Axis
20	21	1.2	12.10	1.2	0.02	0.00031415	750.92	Block Y-Axis



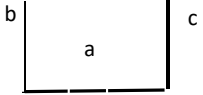
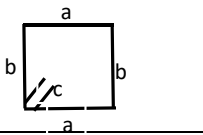
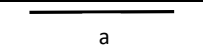
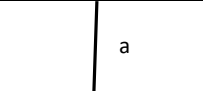
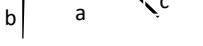
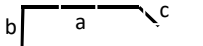
INCLINED MAIN BAR

BLOCK 1								
20	6	1.2	31.16	1.2	0.02	0.00031415	496.53	Inclined Beam Y-axis
20	6	1.2	22.39	1.2	0.02	0.00031415	366.75	Inclined Beam Y-axis
20	6	1.2	13.62	1.2	0.02	0.00031415	236.98	Inclined Beam Y-axis
20	24	1.2	13.20	1.2	0.02	0.00031415	923.30	Inclined Beam Y-axis
20	18	1.2	6.60	1.2	0.02	0.00031415	399.50	Inclined Beam Y-axis

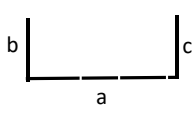
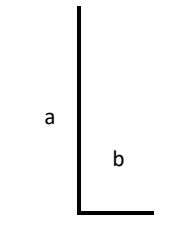
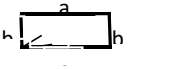
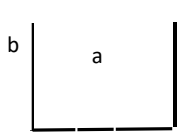
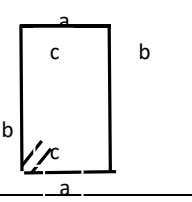
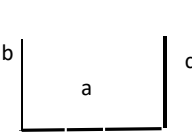


Secondary beam

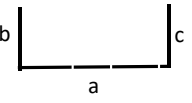
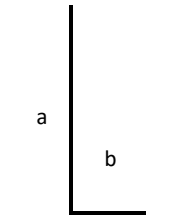
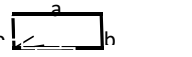
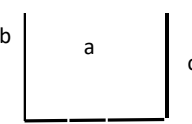
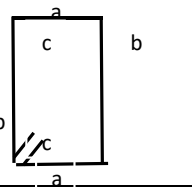

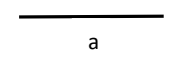
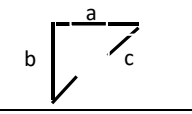
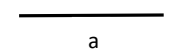
BLOCK 1								
16	6	0.96	27.00	0.96	0.016	0.000201056	273.86	GF X-axis
16	6	0.96	18.23	0.96	0.016	0.000201056	190.82	GF X-axis
16	18	0.96	5.80	0.96	0.016	0.000201056	219.32	GF Y-axis
16	36	0.96	6.60	0.96	0.016	0.000201056	484.09	Inclined Beam Y-axis

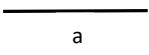
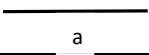
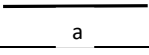
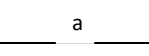
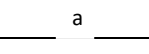
										
	8	2916	0.64	0.94	0.08	0.008	0.000050264	1910.08	ALL GRIDS	
	8	1022	0.44	0.44	0.08	0.008	0.000050264	387.23	SECONDARY BEAM	
FOR SLAB										
	10	88	22.386			0.01	7.85375E-05	1214.52	MAIN BAR-BLOCK 1-Sitting slab	
	10	149	13.2			0.01	7.85375E-05	1214.52	DISTRIBUTION BAR-BLOCK 1-Sitting slab	
	10	149	3.96	0.1	0.1	0.01	7.85375E-05	382.76	TOP BAR-BLOCK 1-Sitting slab	
	10	88	6.7158	0.1	0.1	0.01	7.85375E-05	375.21	TOP BAR-BLOCK 1-Sitting slab	
								80446.74		

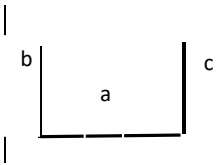
BAR BENDING SCHEDULE - Boundary wall 53m

Bar Shape	Bar Dia	Nos	Length,m					Weigth of Bar (Kg)	Remarks	
	mm		a	b	c					
FOR FOUNDATION										
	12	96	0.8	0.12	0.12	0.012	0.000113094	88.64	Top Bar Longitudinal Side	
	12	96	0.8	0.12	0.12	0.012	0.000113094	88.64	Top Bar Transverse Side	
	12	96	0.8	0.12	0.12	0.012	0.000113094	88.64	Bottom Bar Longitudinal Side	
	12	96	0.8	0.12	0.12	0.012	0.000113094	88.64	Bottom Bar Transverse Side	
FOR COLUMN										
	16	72	2.80	0.96		0.016	0.000201056	427.27	Wall	
	12	72	2.80	0.72		0.012	0.000113094	225.00	Wall	
	8	378	0.60	0.6	0.08	0.008	0.000050264	190.91	Wall	
FOR FOUNDATION AND PLINTH BEAM										
	12	6	47.60	0.72	0.72	0.012	0.000113094	261.22	Wall	
	8	317.33	0.5	0.5	0.08	0.008	0.000050264	135.23	Wall	
FOR Lintel Band										
	Wall									
	10	2	0.6	47.60	0.6	0.01	7.85375E-05	60.17	Wall	
								2067.94	Kg	

BAR BENDING SCHEDULE - Covered Hall

Bar Shape	Bar Dia	Nos	Length,m					Weigth of Bar (Kg)	Remarks	
	mm		a	b	c					
FOR FOUNDATION										
	12	135	1.5	0.12	0.12	0.012	0.000113094	208.54	Top Bar Longitudinal Side	
	12	135	1.5	0.12	0.12	0.012	0.000113094	208.54	Top Bar Transverse Side	
	12	135	1.5	0.12	0.12	0.012	0.000113094	208.54	Bottom Bar Longitudinal Side	
	12	135	1.5	0.12	0.12	0.012	0.000113094	208.54	Bottom Bar Transverse Side	
FOR COLUMN										
	16	128	1.65	0.96		0.016	0.000201056	527.27	Column C	
	16	64	1.65	0.96		0.016	0.000201056	263.64	Column C1	
	12	8	4.65	0.72		0.012	0.000113094	38.14	Column C1	
	8	264	0.80	0.8	0.08	0.008	0.000050264	175.00	Column C	
	8	93	0.70	0.7	0.08	0.008	0.000050264	54.31	Column C1	
FOR FOUNDATION AND PLINTH BEAM										
	12	24	24.21	0.72	0.72	0.012	0.000113094	546.52	Grid A-A, B-B	
	12	24	9.20	0.72	0.72	0.012	0.000113094	226.71	Grid 1-1,7-7	
	12	12	3.30	0.72	0.72	0.012	0.000113094	50.50	Entry Stair	
	8	645.60	0.46	0.6	0.08	0.008	0.000050264	290.40	Grid A-A, B-B	
	8	245.33	0.46	0.6	0.08	0.008	0.000050264	110.35	Grid 1-1,7-7	
	8	44.00	0.46	0.6	0.08	0.008	0.000050264	19.79	Entry Stair	
FOR sitting place										
	8	3.00							Flight	
			1.42			0.008	0.000050264	3.36		
	8	9.47							Flight	
			0.45			0.008	0.000050264	3.36		
	8	16							Nose	
			0.3	0.40	0.2	0.008	0.000050264	11.36		
	8	6							Landing	
			0.45			0.008	0.000050264	2.13		

	8	3	0.9			0.008	0.000050264	2.13	Landing
	8	26	1			0.008	0.000050264	61.55	Sitting Place slab
	8	6.67	3.9			0.008	0.000050264	61.55	Sitting Place slab
	8	26	0.4			0.008	0.000050264	8.21	Sitting Place Vertical
	8	2.67	3.9			0.008	0.000050264	8.21	Sitting Place Vertical
								4123.33	Kg

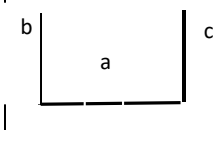


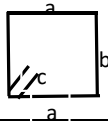
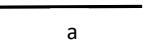

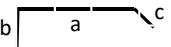
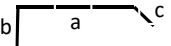
BAR-EXTRA

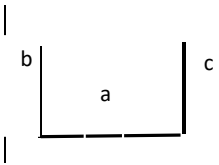
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BLOCK 1

12	2	0.72	3.75	0.72	0.012	0.000113094	9.22	X-Axis	
12	2	0.72	3.75	0.72	0.012	0.000113094	9.22	Y-Axis	



	8	100	0.3	0.54	0.08	0.008	0.000050264	36.30	ALL GRIDS
FOR SLAB									
									
	8	25	3.75			0.008	0.000050264	36.99	
	8	25	3.75			0.008	0.000050264	36.99	
	8	25	1.125	0.08	0.08	0.008	0.000050264	12.68	
	8	25	1.125	0.08	0.08	0.008	0.000050264	12.68	
								1418.00	

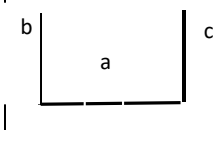


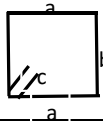
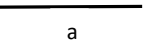

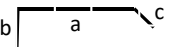
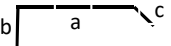
BAR-EXTRA

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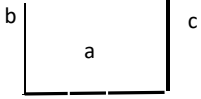
BLOCK 1

12	2	0.72	3.75	0.72	0.012	0.000113094	9.22	X-Axis	
12	2	0.72	3.75	0.72	0.012	0.000113094	9.22	Y-Axis	



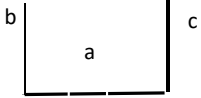
	8	100	0.3	0.54	0.08	0.008	0.000050264	36.30	ALL GRIDS
FOR SLAB									
									
	8	25	3.75			0.008	0.000050264	36.99	
	8	25	3.75			0.008	0.000050264	36.99	
	8	25	1.125	0.08	0.08	0.008	0.000050264	12.68	
	8	25	1.125	0.08	0.08	0.008	0.000050264	12.68	
								1418.00	

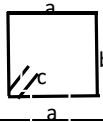
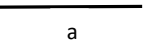

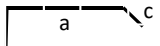
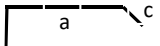
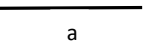

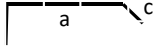
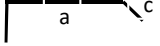
16	12	0.96	2.00	0.96	0.016	0.000201056	74.19	X-Axis
16	6	0.96	5.88	0.96	0.016	0.000201056	73.89	X-Axis



BAR-EXTRA

BLOCK 1								
16	2	0.96	1.76	0.96	0.016	0.000201056	11.63	X-Axis



	8	39	0.3	0.3	0.08	0.008	0.000050264	10.52	ALL GRIDS
FOR SLAB									
									
	10	5	3.097			0.01	7.85375E-05	9.55	Lower Slab
	10	15	1			0.01	7.85375E-05	9.55	Lower Slab
	10	15	0.3	0.1	0.1	0.01	7.85375E-05	4.77	Lower Slab
	10	5	0.9291	0.1	0.1	0.01	7.85375E-05	3.48	Lower Slab
	10	10	7.733			0.01	7.85375E-05	47.68	Upper Slab
	10	39	2			0.01	7.85375E-05	47.68	Upper Slab
	10	39	0.6	0.1	0.1	0.01	7.85375E-05	19.07	Upper Slab
	10	10	2.3199	0.1	0.1	0.01	7.85375E-05	15.54	Upper Slab
								1926.00	

**Suryabinayak Municipality
Office of Municipal Executive
Katunje, Bhaktapur
Bagmati Province**

Summary of Sanitary

Project- Preparation of Detailed Project Report of Construction of Stadium of Suryabinayak

Location- Suryabinayak Municipality , Bhaktapur

S.N.	Description	Unit	Total	All total
A	Civil Works			
1	Main Block	1	6,051,109.90	6,051,109.90
2	Septic Tank	1	726,908.91	726,908.91
3	Soak Pit	1	94,425.58	94,425.58
4	Man hole	30	21,431.60	642,947.92
			Total	7,515,392.30

COST ESTIMATE FOR Sanitary, Plumbing & Water Supply Works

Project- Preparation of Detailed Project Report of Construction of Stadium of Suryabinayak

Item No.	Description of Works	Unit	Quantity	Rate	Amount
				(NPR)	(NPR)
	Providing and fixing in position of all work items with all necessary fittings complete with testing and ready for operation as per drawings, specifications, manufacturer's recommendations and instructions. The rate shall include for position marking, maintain line, level or grade wherever required, sand filling/compaction, earth cutting and backfilling, cutting, chasing of walls, plasters or tiles etc. and making good and touching up to restore to original conditions wherever instructed and applicable for any of the items below.				
	A. SANITARY INSTALLATION				
1.	500mm Porcelain clay white glazed Orissa pan with low level cistern with complete set (Hindware, Paryware, Somany, cera or eqv.)	Set		15475.55	
2.	Supplying and fixing of white vitreous flexio washdown one piece sommode with soft closing seat cover size(L715xW360xH710mm) made of sanitary ceramics with connection pipe and angle valve	Set	55	40314.40	2,217,292.00
3.	supplying and fixing of white vitreous flexio counter top baasin size (499x499x181mm) made of sanitary veramics with simplicity square single lver basin mixer, pipe connector, bottle trap and waste coupling all complete	Set	35	27019.25	945,673.75
4.	61x41x38cm Large flat back white glazed urinal with bracket all complete	Set	20	11763.35	235,267.00
5.	Supplying and /fixing Indian pattern white glazed Porcelain clay 68x30cm size Urinal Partation with all complete set	No.	20	3315.45	66,309.00
6.	Supplying and fixing C P 15 mm ø Angle valve with wall flange,cp nipple all complete set all complete set with testing and ready for operation.	Set	90	1625	146,245.50
7.	Supplying and fixing C P 15 mm ø Urinal Auto closing Valve with built in control cock all complete set with testing and ready for operation.	Set	20	3343.05	66,861.00
8.	Supplying and Fixing Chrome Plate Toilet Paper Holder all complete set with testing and ready for operation.	No.	55	744.05	40,922.75
9.	Supplying and Fixing Chrome Plate Soap Dish all complete set with testing and ready for operation..	No.	35	600.30	21,010.50
10.	Supplying and fixing C P 15 mm Comode spray with wall flange,cp nipple all complete set all complete set with testing and ready for operation.	No.	55	3092.35	170,079.25
11.	Supplying and fixing Looking Mirror Simple	No.	35	1300.65	45,522.75
12.	Supplying and fixing C.P. Grab bar European pattern 600-900mm long bend type Grohe, Essel or Eqv.	No.		8864.20	
13.	Supplying and fixing C P towel rod good	No.		1327.10	
14.	Supplying and fixing and Dryer Germany with complete accessories with testing and ready for operation(Grohe, Hansgrohe, American Standard or eqv.)accessories	No.		22458.35	
15.	Supplying and fixing of Steel Floor Trap	No.	80	791.03	63,282.20
16.	Supplying and fixing 15mm CP Bib Cock	No.		1359.30	
17.	Stainless Steel Shower rose	No.	18	1237.40	22,273.20
18.	Supplying and fixing CP Grating 100mm (4") dia	No.	80	887.80	71,024.00
19.	SMC Manhole Covers: Frame 580mm Cover :460mm- Square (5 Ton Capacity) frae 40mm thick cover 20mm thick all complete	Set	35.00	7,070.20	247,457.00
	B. WATER SUPPLY INSTALLATION				

COST ESTIMATE FOR Sanitary, Plumbing & Water Supply Works

Project- Preparation of Detailed Project Report of Construction of Stadium of Suryabinayak

Item No.	Description of Works	Unit	Quantity	Rate	Amount
				(NPR)	(NPR)
20.	CPVC pipes SDR-11 including MS clamps and brackets, nails and hooks, and all necessary CPVC/Brass specials required for complete installation, cutting, jointing, sealing of joints etc, installation of pipes and specials including making holes and cutting grooves on walls or floor and repairing the same to its original finish. Pipes to be installed on trenches or walls or floor or duct as per drawings, specifications and instructions, cleaning of the system, testing and ready for operation. The rate shall include for all labour and materials required. The measurement shall be done for running meters, fittings etc not payable seperately.				
	- 40 mm	Rm	50	759.35	37,967.25
	- 32 mm	Rm	40	562.70	22,507.80
	- 25 mm	Rm	80	501.75	40,139.60
	- 20 mm	Rm	55	384.10	21,125.50
	CPVC Ball Valve				
	- 40 mm	No.	20	2097.60	41,952.00
	- 32 mm	No.	35	1775.60	62,146.00
	- 25 mm dia.	No.	35	847.55	29,664.25
	- 20 mm dia.	No.	20	727.95	14,559.00
21.	Supply and installation of stainless steel water tank (304 GRADE STEEL) with cover including drain hole, inlet and outlet point, over-flow pipe and other necessary accessories all complete set as per the acceptance of engineer in charge. (Danchakanya or equivalent)				
	1000 liter SS water tank	Set	6	29245	175,467.00
	50 mm GM Check Valve	Set	6	6243	37,460.10
	Supply and installation of electric motor pump with the facility of Motor Starter Switch & Auto Sensor for three phase electric supply with all accessories all complete set as per the acceptance of engineer-in-charge. (Kirloskar, Cromaton or equivalent)				
22.	1 Hp water pump (mono block type)	Set	3.00	19,882.35	59,647.05
23.	Supplying and Fixing Pressure Senser Switch for pump auto switch off all complete set (Italian or Eqv.)	nos	3.00	4,747.20	14,241.60
24.	Supplying and Fixing Motor Starter Switch all complete set with testing and ready for operation.	nos	3.00	4,428.65	13,285.95
	D. SEWER, VENT, RAIN AND WASTE WATER INSTALLATION				

COST ESTIMATE FOR Sanitary, Plumbing & Water Supply Works

Project- Preparation of Detailed Project Report of Construction of Stadium of Suryabinayak

Item No.	Description of Works	Unit	Quantity	Rate (NPR)	Amount (NPR)
25.	UPVC SWR (Soil, Waste, Rain) eco-drain pipes with all necessary ring gaskets, PVC fittings, including MS clamps, hangers, cutting, jointing, sealing, installation of pipes and specials including making holes and cutting grooves on walls or floor and repairing the same to its original finish. Pipes to be installed on trenches or walls or floor or duct or hung to ceilings as per drawings, specifications, manufacturer's recommendations, instructions, cleaning of the system, testing and ready for operation. The rate shall include for all labour and materials required. The measurement shall be done for running meters, fittings etc not payable separately.				
	- 110 mm UPVC pipe 6 kg/cm ²	Rm	180	1140.23	205,240.50
	- 75 mm UPVC pipe 6 kg/cm ²	Rm	240	702.71	168,649.80
	110 mm Vent cowl	No	10	504.85	5,048.50
	110 mm Plain tee	No	20	725.65	14,513.00
	110 mm Door tee	No	25	829.15	20,728.75
	110 mm Bend 90 degree	No	30	634.80	19,044.00
	110 mm Door bend	No	15	683.10	10,246.50
	110 mm Bend 45 degree	No	17	586.50	9,970.50
	110 mm Y- Branch	No	13	822.25	10,689.25
	110 mm Cross tee	No	14	991.30	13,878.20
	110 mm Pipe clip	No	100	48.30	4,830.00
	75 mm Plain tee	No	50	415.73	20,786.25
	75 mm Plain door tee	No	60	474.38	28,462.50
	75 mm Bend 90 degree	No	40	370.88	14,835.00
	75 mm Door bend	No	30	406.53	12,195.75
	75 mm Bend 45 degree	No	15	347.88	5,218.13
	75 mm Y- Branch	No	20	439.88	8,797.50
	75 mm Cross tee	No	25	616.98	15,424.38
	75 mm Pipe clip	No	120	37.95	4,554.00

COST ESTIMATE FOR Sanitary, Plumbing & Water Supply Works

Project- Preparation of Detailed Project Report of Construction of Stadium of Suryabinayak

Item No.	Description of Works	Unit	Quantity	Rate (NPR)	Amount (NPR)
26.	110mm HDPE 6kg/cm ² pipe laying and joining	RM	320	627.89	200,924.80
	160mm HDPE 6kg/cm ² pipe laying and joining	RM	280	1170.32	327,689.60
	Total Amount without VAT				6,051,109.90

Detailed Estimate of Construction of Septic Tank

Nos=1

Project- Preparation of Detailed Project Report of Construction of Stadium of Suryabinayak

S.N.	Description	No	Length	Total length	Breadth	Height	Quantity	Remarks	Rate	Amount
1	E/w excavation in all types of soil.									
		1	15.00	15.00	4.00	1.24	74.40			
				Total Quantity			74.40	Cu.m	80.88	6017.472
2	Stone soling in foundation & floor									
		1	15.00	15.00	4.00	0.10	6.00			
				Total Quantity			6.00	Cu.m	5252	31514.76
3	PCC(1:2:4)									
	base	1	15.00	15.00	4.00	0.075	4.50	Cu.m	15902	71557.56
4	RCC(1:1.5:3)									
	cover	1	15.00	15.00	4.00	0.125	7.50	Cu.m	17226	129192.525
5	Reinforcement bar works									
	1.5% of RCC						883.13			
				Total Quantity			883.13	kg	150.13	132584.3069
6	Form works									
	cover	1	13.95	13.95	3.20		44.64			
	sides	1	38.00	38.00		0.125	4.75			
				Total Quantity			49.39	Sq.m	913.06	45096.0334
7	Brick Masonary work in 1:4 c/s mortar									
	long wall	2	15.00	30.00	0.35	1.165	12.23			
	Short wall	2	3.30	6.60	0.35	1.165	2.69			
	middle wall	1	3.30	3.30	0.35	1.165	1.34			
				Total Quantity			16.26	Cu.m	15812	257101.6566
8	12.5 mm thick c/s 1:4 plaster									
	wall	1	13.95	13.95		1.165	16.25			
		1	3.30	3.30		1.165	3.84			
	partition wall	1	3.30	3.30		1.165	3.84			
	floor	1	13.95	13.95	3.20		44.64			
				Total Quantity			68.57	Sq.m	465.06	31889.1642
9	Cement punning works						68.57			
	same as plaster area			Total Quantity			68.57	Sq.m	320	21955.4283
Total Amount										726,908.91

Prepared by:

Checked by:

Approved by:

Detailed Estimate of Construction of Soak-pit

Project- Preparation of Detailed Project Report of Construction of Stadium of Suryabinayak

Numbers: 1

S.N.	Description	No	Length	Total length	Breadth	Height	Quantity	Remarks	Rate	Amount
	E/w excavation in all types of soil.									
1	Found. (3.14xd2/4xh), d=1.8	1	2.54	2.54		2.50	6.35			
							Total Quantity	6.35	Cu.m	80.88
										513.588
2	Stone soling in foundation & floor									
		1	2.54	2.54		0.10	0.25			
							Total Quantity	0.25	Cu.m	5252
										1313.115
3	Brick masonry works .									
		1	4.71	4.71	0.23	2.50	2.70			
							Total Quantity	2.70	Cu.m	15812
										42692.157
4	Brick bats filling works in foundation laid in line and level including filling in the joints with sand & all complete as per specification,instruction and drawing.									
		5	2.54			2.50	31.79	Cu.m	1136.48	36128.6992
5	PCC (1:1.5:3) for R.c.c cover	1	2.54	2.54		0.125	0.31			
							Total Quantity	0.31	Cu.m	17226
										5339.9577
6	Reinforcement works									
	1.5% of RCC									
							Total Quantity	36.50	kg	150.13
										5479.745
7	Form works	1	2.54	2.54			2.54			
		1	5.65	5.65		0.125	0.70			
							Total Quantity	3.24	Sq.m	913.06
										2958.3144
Total Cost										94,425.58

Prepared by:

Checked by:

Approved by:

Project- Preparation of Detailed Project Report of Construction of Stadium of Suryabinayak

Numbers:1

S.N.	Description	No	Length	Total length	Breadth	Height	Quantity	Remarks	Rate	Amount
1	E/w excavation in all types of soil.									
		1	1.00	1.00	1.00	0.75	0.75	m3	80.88	60.66
2	One layer flat brick soling in foundation & floor									
		1	1.00	1.00	1.00		1.00	m2	5252.46	5252.46
3	PCC (1:2:4)									
	base	1	1.00	1.00	1.00	0.10	0.10	m3	15902	1590.168
4	Brick works in 1:6 c/s mortar									
	long wall	2	1.00	2.00						
	short wall	0	0.54	0.00						
				2.00	0.23	0.60	0.28	m3	15811.91	4364.08716
5	PCC for RCC(1:1.5:3)									
	cover	1	1.00	1.00	1.00	0.10	0.10	m3	17225.67	1722.567
5	Reinforcement bar works Cover(1.5% of RCC)						11.77	kg	150.13	1767.0301
6	12.5mm thick c/s 1:4 plaster									
	wall	20	0.50	10.00		0.600	6.00			
	floor	10	0.50	5.00	0.50		2.50			
						Total	8.50	m2	465.06	3953.01
7	Cement punning works									
	same as plaster area						8.50	m2	320	2721.615
Total Amount										21,431.60

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1001

580 mm size Porcelain clay white glazed Orissa pan with low level glazed cistern complete set

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	3	nos	1,200.00	3,600.00	6,300.00
	un skilled	3	nos	900.00	2,700.00	
materials	a. 580 mm Porcelain clay white glaze Orissa Pan	1	nos	2,600.00	2,600.00	6,791.00
	b.white glazed porcelain clay 10.5 ltr cistern complete set (internal part of cistern pvc Fittings)	1	nos	3,666.00	3,666.00	
	c 32mmx60cm size flushing CP pipe	1	nos	525.00	525.00	
	d.1.5x45 Cm (½" x18") PVC pipe connector	1	nos	147.00	147.00	
Actual rate						13,091.00
15% contractor overhead						1,963.65
Total (Rs.)						15,054.65

Rate per set Rs. **15054.65**

1002

580 mm IPWC with low level glazed cistern (Indian pan) complete set.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	3	nos	1,200.00	3,600.00	6,300.00
	un skilled	3	nos	900.00	2,700.00	
materials	a. 580 mm Porcelain clay white glaze Indian Pan	1	nos	2,600.00	2,600.00	8,055.00
	b. P or S trap.	1	nos	400.00	400.00	
	c. White glazed foot rest	2	nos	432.00	864.00	
	white glazed porcelain clay 10.5 ltr cistern complete set (internal part of cistern pvc Fittings)	1	nos	3,666.00	3,666.00	
	e. 32mmx60cm size flushing CP pipe	1	nos	525.00	525.00	
	f. 1.5x45 Cm (½" x18") PVC pipe connector	1	nos	147.00	147.00	
Actual rate						14,355.00
15% contractor overhead						2,153.25
Total (Rs.)						16,508.25

Rate per set Rs. **16508.25**

1003

m Porcelain clay white glazed Orissa pan with low level cistern with complete set (Hindware, Paryware, Somany, cera or

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	3	nos	1,200.00	3,600.00	6,300.00
	un skilled	3	nos	900.00	2,700.00	
materials	500mm size white glazed without siphon	1	nos	2,823.00	2,823.00	7,157.00
	a.white glazed porcelain clay 12.5 lit cistern complete set (brass fitting siphon with plunger plate)	1	nos	3,809.00	3,809.00	
	c. 32mmx60cm size flushing CP pipe	1	nos	525.00	525.00	
	d.1.5x45 Cm (½" x18") PVC pipe connector	1	nos	147.00	147.00	
Actual rate						13,457.00
15% contractor overhead						2,018.55
Total (Rs.)						15,475.55

Rate per set Rs. **15475.55**

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1004

21" Porcelain clay white glaze Orissa Pan complete set

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	1	nos	1,200.00	1,200.00	2,100.00
	un skilled	1	nos	900.00	900.00	
materials	a. 21" size white glazed orissa pan	1	nos	950.00	950.00	950.00
	b.					
Actual rate						3,050.00
15% contractor overhead						457.50
Total (Rs.)						3,507.50

Rate per set Rs. 3507.50

1005

10.0 Litre. Porceline clay white glazed low level flushing Cistern complete set

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	2	nos	1,200.00	2,400.00	4,200.00
	un skilled	2	nos	900.00	1,800.00	
materials	a.white glazed porcelain clay 10.5 ltr cistern complete set (internal part of cistern pvc Fittings)	1	nos	3,666.00	3,666.00	4,338.00
	b. 32mmx60cm size flushing CP pipe	1	nos	525.00	525.00	
	c. 1.5x45 Cm(½" x18") pipe connector	1	nos	147.00	147.00	
Actual rate						8,538.00
15% contractor overhead						1,280.70
Total (Rs.)						9,818.70

Rate per set Rs. 9818.70

1006

10.0 ltr.PVC low level flushing cistern dual flushing complete set

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	2	nos	1,200.00	2,400.00	4,200.00
	un skilled	2	nos	900.00	1,800.00	
materials	a.white glazed porcelain clay 10.5 ltr cistern complete set (internal part of cistern pvc Fittings)	1	nos	2,032.00	2,032.00	2,704.00
	b.3.2x60 cm(1¼"x24") flushing pipe	1	nos	525.00	525.00	
	c. 1.5x45 cm(½" x18") pipe connector	1	nos	147.00	147.00	
Actual rate						6,904.00
15% contractor overhead						1,035.60
Total (Rs.)						7,939.60

Rate per set Rs. 7939.60

1007

Porcelain clay white glazed I.P.W.C. COMODE with low level glazed cistern,seat cover complete set.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	3	nos	1,200.00	3,600.00	6,300.00
	un skilled	3	nos	900.00	2,700.00	
materials	a. White glazed porcelain clay EWC regular commode with s&p trap	1	nos	1,880.00	1,880.00	6,542.00
	b.white glazed porcelain clay 10.5 ltr cistern complete set (internal part of cistern pvc Fittings)	1	nos	3,666.00	3,666.00	
	c. Bakelite toilet seat cover	1	nos	284.00	284.00	
	d. 3.2x60 cm (1 1/4"x24") flushing CP pipe	1	nos	525.00	525.00	
	e. 1.5x45 cm (½" x18") PVC pipe connector	1	nos	147.00	147.00	
	f. screw, etc.	Ls			40.00	
Actual rate						12,842.00
15% contractor overhead						1,926.30
Total (Rs.)						14,768.30

Rate per set Rs. 14768.30

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1008

Porcelain clay White glazed EWC floor mounted Comode with low level glazed cistern with complete set.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	3	nos	1,200.00	3,600.00	6,300.00
	un skilled	3	nos	900.00	2,700.00	
materials	a. White glazed porcelain clay EWC floor mounted comode without cistern all complet set	1	nos	8,916.00	8,916.00	12,769.00
	b.white glazed porcelain clay 10.5 ltr cistern complete set (internal part of cistern pvc Fittings)	1	nos	3,666.00	3,666.00	
	c. 1.5x45 CM (½" x18") PVC pipe connector	1	nos	147.00	147.00	
	d. screw, etc.	Ls			40.00	
Actual rate						19,069.00
15% contractor overhead						2,860.35
Total (Rs.)						21,929.35

Rate per set Rs. 21929.35

1009

Porcelain clay white glaze EWC Constellation Comode all complete set (Hindware, Paryware, Somany, cera or eqv.).

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	3	nos	1,200.00	3,600.00	6,300.00
	un skilled	3	nos	900.00	2,700.00	
	a. White glazed porcelain clay EWC Constellation commode with 'P ' & 's ' trap and seat cover complete set.(Hindware, Paryware, Somany, cera or eqv.)	1	nos	18,663.00	18,663.00	18,703.00
	b. screw, etc.	Ls			40.00	
Actual rate						25,003.00
15% contractor overhead						3,750.45
Total (Rs.)						28,753.45

Rate per set Rs. 27023.85

1010

Porcelain clay white glaze One Piece Comode with 'P ' & 's ' trap and slow falling seat cover (Bolan, Tita, Akwa or eqv.) all complete set.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	3	nos	1,200.00	3,600.00	6,300.00
	un skilled	3	nos	900.00	2,700.00	
	a. White glazed porcelain clay One Piece commode with 'P ' & 's ' trap and slow falling seat cover complete set.(Bolan, Tita, Akwa or eqv.)	1	nos	21,001.00	21,001.00	21,041.00
	b. screw, etc.	Ls			40.00	
Actual rate						27,341.00
15% contractor overhead						4,101.15
Total (Rs.)						31,442.15

Rate per set Rs. 31442.15

1011

Supplying and fixing of white vitreous flexio washdown one piece sommode with soft closing seat cover size(L715xW360xH710mm) made of sanitary ceramics with connection pipe and angle valve

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	3	nos	1,200.00	3,600.00	6,300.00
	un skilled	3	nos	900.00	2,700.00	
materials	Supplying of white vitreous flexio washdown one piece sommode with soft closing seat cover size(L715xW360xH710mm) made of sanitary ceramics with connection pipe and angle valve	1	nos	24,800.00	24,800.00	28,756.00
	white glazed porcelain clay 12.5 lit cistern complete set (brass fitting siphon with plunger plate)	1	nos	3,809.00	3,809.00	
	c.1.5x45 cm(½" x18") PVC pipe connector	1	nos	147.00	147.00	
Actual rate						35,056.00
15% contractor overhead						5,258.40
Total (Rs.)						40,314.40

Rate per set Rs. 40314.40

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1012

(50x40)cm Porcelain clay white glaze Oval Wash basin with mixture complete set.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	2	nos	1,200.00	2,400.00	4,200.00
	un skilled	2	nos	900.00	1,800.00	
materials	a. 50x40cm Porcelain clay white glaze Oval Wash basin	1	nos	1,525.00	1,525.00	3,184.00
	b. 32 mm pvc bottle trap including 32mm CP waste coupling with CP chain and rubber plug etc.	1	nos	490.00	490.00	
	c. 15 mm Fancy type long Body	1	nos	835.00	835.00	
	d. 1.5x45Cm (1/2"x18") pipe connector	2	nos	147.00	294.00	
	e. screw etc	Ls			40.00	
Actual rate						7,384.00
15% contractor overhead						1,107.60
Total (Rs.)						8,491.60

Rate per set Rs. 8491.60

1013

(50x40)cm Porcelain clay white glaze Wash basin with pedestal and mixture complete set.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	2	nos	1,200.00	2,400.00	4,200.00
	un skilled	2	nos	900.00	1,800.00	
materials	a. Porcelain clay white glaze wash basin(500*400)cm size regular	1	nos	1,128.00	1,128.00	7,750.00
	b. 32 mm pvc bottle trap including 32mm CP waste coupling with CP chain and rubber plug etc.	1	nos	490.00	490.00	
	c. 15 mm CP basin mixer set	1	nos	4,379.00	4,379.00	
	d. 1.5x45Cm (1/2"x18") pipe connector	2	nos	147.00	294.00	
	e. Porcelain clay white glaze pedestal	1	nos	1,419.00	1,419.00	
	f. screw etc	Ls			40.00	
Actual rate						11,950.00
15% contractor overhead						1,792.50
Total (Rs.)						13,742.50

Rate per set Rs. 13742.50

1014

(50X40)cm Porcelain clay white glaze Wash basin , Swan type pillar cock with pedestal complete set.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	2	nos	1,200.00	2,400.00	4,200.00
	un skilled	2	nos	900.00	1,800.00	
materials	a) 50x40cm Porcelain clay white glaze Wash basin (Hindware, Parryware, cera or equivalent) Regular	1	nos	1,600.00	1,600.00	4,896.00
	b. Pedestal	1	set	1,419.00	1,419.00	
	c. 32 mm pvc bottle trap including 32mm CP waste coupling with CP chain and rubber plug etc.	1	nos	490.00	490.00	
	d. C.P 15mm swan neck type pillar cock	1	nos	1,200.00	1,200.00	
	e. 1.5x45cm (1/2"x18") pipe connector	1	nos	147.00	147.00	
	f. screw etc	Ls			40.00	
Actual rate						9,096.00
15% contractor overhead						1,364.40
Total (Rs.)						10,460.40

Rate per set Rs. 10460.40

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1015

(63x50)cm Porcelain clay white glazed O- counter Wash basin with mixer Complete set. (Duravit, Grohe, American Standard, Thai or equivalent)

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	2	nos	1,200.00	2,400.00	4,200.00
	un skilled	2	nos	900.00	1,800.00	
materials	a. 63x50cm white glazed porcelain clay O-counter basin complete	1	nos	14,189.00	14,189.00	19,392.00
	b. 32 mm pvc bottle trap including 32mm CP waste coupling with CP chain and rubber plug etc.	1	nos	490.00	490.00	
	c.15 mm CP basin mixer set	1	nos	4,379.00	4,379.00	
	d. 1.5x45Cm (1/2"x18") pipe connector	2	nos	147.00	294.00	
	e. screw etc	Ls			40.00	
Actual rate						23,592.00
15% contractor overhead						3,538.80
Total (Rs.)						27,130.80

Rate per set Rs. 27130.80

1016

(75x50)cm Porcelain clay Oval white glazed Wash basin with mixture complete set.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	2	nos	1,200.00	2,400.00	4,200.00
	un skilled	2	nos	900.00	1,800.00	
materials	a .75x50cm white glaze porcelain clay semi pedestal large counter wash basin with complete set	1	nos	6,419.00	6,419.00	11,622.00
	b. 32 mm pvc bottle trap including 32mm CP waste coupling with CP chain and rubber plug etc.	1	nos	490.00	490.00	
	c.15 mm CP basin mixer set	1	nos	4,379.00	4,379.00	
	d. 1.5x45Cm (1/2"x18") pipe connector	2	nos	147.00	294.00	
	e. screw etc	Ls			40.00	
Actual rate						15,822.00
15% contractor overhead						2,373.30
Total (Rs.)						18,195.30

Rate per set Rs. 18195.30

1017

Porcelain clay white glaze Wash basin for disable with Pillar cock and grab bar all complete set.

0	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	2	nos	1,200.00	2,400.00	4,200.00
	un skilled	2	nos	900.00	1,800.00	
	a. White glaze porcelain clay basin for disable with grab bar all complete	1	nos	21,165.00	21,165.00	22,552.00
	b. 15mm swan neck type cp pillar cock	1	nos	1,200.00	1,200.00	
	c. 1.5x45cm (1/2"x18") pipe connector	1	nos	147.00	147.00	
	d. screw etc	Ls			40.00	
Actual rate						26,752.00
15% contractor overhead						4,012.80
Total (Rs.)						30,764.80

Rate per set Rs. 30764.80

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1018

supplying and fixing of white vitreous flexio counter top basin size (499x499x181mm) made of sanitary veramics with simplicity square single lver basin mixer, pipe connector, bottle trap and waste coupling all complete

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	2	nos	1,200.00	2,400.00	4,200.00
	un skilled	2	nos	900.00	1,800.00	
	supplying of white vitreous flexio counter top basin size (499x499x181mm) made of sanitary veramics	1	nos	19,255.00	19,255.00	19,295.00
	15mm CP basin mixer jaquar, nova, ark or equivalent	1	nos	-	-	
	c. 1.5x45cm (½"x18") pipe connector	2	nos	-	-	
	d. screw etc	Ls			40.00	
Actual rate						23,495.00
15% contractor overhead						3,524.25
Total (Rs.)						27,019.25

Rate per set Rs. 27019.25

1019

(50X40)cm Porcelain clay white glaze Wash basin complete set.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	2	nos	1,200.00	2,400.00	4,200.00
	un skilled	2	nos	900.00	1,800.00	
materials	a.Porcelain clay whiye glaze wash basin(500*400)cm size regular	1	nos	1,128.00	1,128.00	1,793.00
	b. bracket	1	set	135.00	135.00	
	c. 32 mm pvc bottle trap including 32mm CP waste coupling with CP chain and rubber plug etc.	1	nos	490.00	490.00	
	d. screw etc	Ls			40.00	
Actual rate						5,993.00
15% contractor overhead						898.95
Total (Rs.)						6,891.95

Rate per set Rs. 6891.95

1020

(40X40) cm Porcelain clay white glaze Corner Wash basin with Pillar cock all complete set.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	2	nos	1,200.00	2,400.00	4,200.00
	un skilled	2	nos	900.00	1,800.00	
materials	a. White glazed porcelain clay corner basin (50*40)cm	1	nos	1,237.00	1,237.00	3,249.00
	b. bracket	1	set	135.00	135.00	
	c. 32 mm pvc bottle trap including 32mm CP waste coupling with CP chain and rubber plug etc.	1	nos	490.00	490.00	
	d. 15mm swan neck type cp pillar cock	1	nos	1,200.00	1,200.00	
	e. 1.5x45cm (½"x18") pipe connector	1	nos	147.00	147.00	
	f. screw etc	Ls			40.00	
Actual rate						7,449.00
15% contractor overhead						1,117.35
Total (Rs.)						8,566.35

Rate per set Rs. 8566.35

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1021						
(45x30x15)cm (18"x12"x6") White glazed Small Lavatory Sink with sink cock Complete Set.						
sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	2	nos	1,200.00	2,400.00	3,300.00
	un skilled	1	nos	900.00	900.00	
materials	a. (45x30x15)cm (18"x12"x6") White glaze sink with C I bracket	1	nos	1,703.00	1,703.00	3,728.00
	b. 32 mm pvc bottle trap including 32mm CP waste coupling with CP chain and rubber plug etc.	1	nos	490.00	490.00	
	c. 15mm cp sink cock	1	nos	1,348.00	1,348.00	
	d. 1.5x45cm (½"x18") pipe connector	1	nos	147.00	147.00	
	e. screw etc	Ls			40.00	
Actual rate						7,028.00
15% contractor overhead						1,054.20
Total (Rs.)						8,082.20

Rate per set Rs. **8082.20**

1022						
(53x43x18)cm (21"x17"x7") size White glaze Large Lavatory Sink with sink cock Complete Set.						
sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	2	nos	1,200.00	2,400.00	3,300.00
	un skilled	1	nos	900.00	900.00	
materials	a. 53x43x18 (21"x17"x7") White glaze sink with C I bracket	1	nos	2,289.00	2,289.00	4,314.00
	b. 32 mm pvc bottle trap including 32mm CP waste coupling with CP chain and rubber plug etc.	1	nos	490.00	490.00	
	c. 15mm cp sink cock	1	nos	1,348.00	1,348.00	
	d. 1.5x45cm (½"x18") pipe connector	1	nos	147.00	147.00	
	e. screw etc	Ls			40.00	
Actual rate						7,614.00
15% contractor overhead						1,142.10
Total (Rs.)						8,756.10

Rate per set Rs. **8756.10**

1023						
(60x45x25)cm (24"x18"x10") size White glazed Large Kitchen Sink with sink cock complete Set.						
sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	3	nos	1,200.00	3,600.00	4,500.00
	un skilled	1	nos	900.00	900.00	
materials	a. 60x45x25Cm (24"x18"x10") White glaze sink with bracket.	1	nos	3,876.00	3,876.00	5,753.00
	b. 32 mm pvc bottle trap including 32mm CP waste coupling with CP chain and rubber plug etc.	1	nos	490.00	490.00	
	c. 15mm cp swan neck sink cock	1	nos	1,200.00	1,200.00	
	d. 1.5x45cm (½"x18") pipe connector	1	nos	147.00	147.00	
	e. screw etc	Ls			40.00	
Actual rate						10,253.00
15% contractor overhead						1,537.95
Total (Rs.)						11,790.95

Rate per set Rs. **11790.95**

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1024

Euro Guard Water purification set (one litre per minute)

sources	Level	Qty	Unit	Rate/unit	cost	Total cost
labour	skilled	3	nos	1,200.00	3,600.00	5,400.00
	un skilled	2	nos	900.00	1,800.00	
materials	a. Euro Guard Water purification set (one litre per minute)	1	sets	16,263.00	16,263.00	16,263.00
Actual rate						21,663.00
15% contractor overhead						3,249.45
Total (Rs.)						24,912.45

Rate per set Rs. 24912.45

1025

Kitchen Sink Stainless Steel 37" long 8" deep with sink cock all complete set.

sources	Level	Qty	Unit	Rate/unit	cost	Total cost
labour	skilled	2	nos	1,200.00	2,400.00	3,300.00
	un skilled	1	nos	900.00	900.00	
materials	a. Stainless steel sink Bowl with ordinary drain board 37" long and 8" deep size.	1	sets	2,383.00	2,383.00	4,408.00
	b. 32 mm pvc bottle trap including 32mm CP waste coupling with CP chain and rubber plug etc.	1	nos	490.00	490.00	
	c. 15mm cp sink cock	1	nos	1,348.00	1,348.00	
	d. 1.5x45cm (½"x18") pipe connector	1	nos	147.00	147.00	
	e. Zink Oxide screw etc.	LS			40.00	
Actual rate						7,708.00
15% contractor overhead						1,156.20
Total (Rs.)						8,864.20

Rate per set Rs. 8864.20

1026

Kitchen Sink Stainless steel 42"with sink cock all complete set. (Hindware, Paryware, Somany, cera or eqv.)

sources	Level	Qty	Unit	Rate/unit	cost	Total cost
labour	skilled	3	nos	1,200.00	3,600.00	5,400.00
	un skilled	2	nos	900.00	1,800.00	
materials	a. Stainless steel sink double bowl with single drain ordinary board 42"	1	sets	5,960.00	5,960.00	7,985.00
	b. 32 mm pvc bottle trap including 32mm CP waste coupling with CP chain and rubber plug etc.	1	nos	490.00	490.00	
	c. 15mm cp sink cock	1	nos	1,348.00	1,348.00	
	d. 1.5x45cm (½"x18") pipe connector	1	nos	147.00	147.00	
	e. Zink Oxide screw etc.	LS			40.00	
Actual rate						13,385.00
15% contractor overhead						2,007.75
Total (Rs.)						15,392.75

Rate per Set Rs. 15392.75

1027

Small Flat back White glazed urinal (46.5x35.5x26.5)cm with sensor valve all complete set.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	3	nos	1,200.00	3,600.00	5,400.00
	un skilled	2	nos	900.00	1,800.00	
materials	a. 46.5x35.5x26.5 cm White glaze flat back Urinal (Hindware, Parryware, cera or eqv.)	1	nos	1,936.00	1,936.00	12,947.00
	b. sensor valve for urinal	1	nos	10,971.00	10,971.00	
	c. screw etc.	Ls			40.00	
Actual rate						18,347.00
15% contractor overhead						2,752.05
Total (Rs.)						21,099.05

Rate per set Rs. 21099.05

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1028

Small Flat back White glazed urinal (46.5x35.5x26.5)cm all complete set

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	2	nos	1,200.00	2,400.00	
	un skilled	1	nos	900.00	900.00	3,300.00
materials	a. 46.5x35.5x26.5 cm White glaze flat back Urinal (Hindware, Parryware,cera or eqv.)	1	nos	1,936.00	1,936.00	
	b.screw etc.	Ls			40.00	1,976.00
Actual rate						5,276.00
15% contractor overhead						791.40
Total (Rs.)						6,067.40

Rate per set Rs. 6067.40

1029

Wall mounted Urinal with sensor complete set.(Duravit, Grohe, American standard and equivalent)

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	3	nos	1,200.00	3,600.00	
	un skilled	2	nos	900.00	1,800.00	5,400.00
materials	Wall mounted Urinal with sensor complete set.(Duravit, Grohe, Cotto,American standard and equivalent)	1	nos	100,291.00	100,291.00	
	b.screw etc.	Ls			40.00	100,331.00
Actual rate						105,731.00
15% contractor overhead						15,859.65
Total (Rs.)						121,590.65

Rate per set Rs. 121590.65

1030

61x41x38cm Large flat back white glazed urinal with bracket all complete

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	3	nos	1,200.00	3,600.00	
	un skilled	2	nos	900.00	1,800.00	5,400.00
materials	a.61x41x38cm Large flat back white glazed porcelain urinal with bracket	1	nos	4,299.00	4,299.00	
	b. 32 mm pvc bottle trap with all complete.	1	nos	490.00	490.00	
	c.screw etc.	Ls			40.00	4,829.00
Actual rate						10,229.00
15% contractor overhead						1,534.35
Total (Rs.)						11,763.35

Rate per set Rs. 11763.35

1031

White glazed porcelain clay corner Urinal (35x35x44)cm size set

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	2	nos	1,200.00	2,400.00	
	un skilled	1	nos	900.00	900.00	3,300.00
materials	a.White glazed porcelain clay corner Urinal (35 x 35 x 44)cm size (Hindware, Parryware, Classica, cera or equivalent.)	1	nos	1,668.00	1,668.00	
	b.screw etc.	Ls			40.00	1,708.00
Actual rate						5,008.00
15% contractor overhead						751.20
Total (Rs.)						5,759.20

Rate per set Rs. 5759.20

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1032

(45x35)cm White Glazed Squatting Plate Urinal set

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	2	nos	1,200.00	2,400.00	3,300.00
	un skilled	1	nos	900.00	900.00	
materials	a. 45X35 cm White glaze squatting plate urinal	1	nos	1,248.00	1,248.00	1,248.00
Actual rate						4,548.00
15% contractor overhead						682.20
Total (Rs.)						5,230.20

Rate per set Rs. 5230.20

1033

68x30cm size White Glazed Urinal Partition with all complete set.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.5	nos	1,200.00	600.00	1,050.00
	un skilled	0.5	nos	900.00	450.00	
materials	a.68X30 cm Whiteglazed porcelain clay division plate	1	nos	1,793.00	1,793.00	1,833.00
	b.screw etc.	Ls			40.00	
Actual rate						2,883.00
15% contractor overhead						432.45
Total (Rs.)						3,315.45

Rate per set Rs. 3315.45

1034

300 ltr with 3 panel solar water heater with electric booster all complete set.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	3.00	nos	1,200.00	3,600.00	6,300.00
	un skilled	3.00	nos	900.00	2,700.00	
materials	a. 300 ltr with 3 panel solar water heater	1	nos	49,376.00	49,376.00	49,416.00
	b.Zink oxide screw etc.	Ls			40.00	
Actual rate						55,716.00
15% contractor overhead						8,357.40
Total (Rs.)						64,073.40

Rate per set Rs. 64073.40

1035

500 litre stainless steel water tank (304 grade steel) fitting with all complete.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	3	nos	1,200.00	3,600.00	7,200.00
	un skilled	4	nos	900.00	3,600.00	
materials	a. 500 liter stainless steel water tank 304 grade steel with Inlet, outlet, over flow, cleanout hole etc. fitting with all complete	1	nos	12,488.00	12,488.00	12,488.00
Actual rate						19,688.00
15% contractor overhead						2,953.20
Total (Rs.)						22,641.20

Rate per nos Rs. 22641.20

1036

1000 ltrs. Net capacity stainless tank with inlet, outlet, over flow, clean out, hole and stand, etc with all complete.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	3	nos	1,200.00	3,600.00	7,200.00
	un skilled	4	nos	900.00	3,600.00	
materials	a. 1000 ltrs. Net capacity stainless tank with inlet, outlet, over flow, clean out, hole and stand, etc	1	nos	18,230.00	18,230.00	18,230.00
Actual rate						25,430.00
15% contractor overhead						3,814.50
Total (Rs.)						29,244.50

Rate per nos Rs. 29244.50

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1037

1500 liter stainless steel water tank (304 grade steel) fitting with all complete.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	3	nos	1,200.00	3,600.00	7,200.00
	un skilled	4	nos	900.00	3,600.00	
materials	a. 1500 liter stainless steel water tank 304 grade steel with Inlet, outlet, over flow, cleanout hole etc. fitting with all complete	1	nos	28,028.00	28,028.00	28,028.00
Actual rate						35,228.00
15% contractor overhead						5,284.20
Total (Rs.)						40,512.20

Rate per nos Rs. 40512.20

1038

2000 litre stainless steel water tank (304 grade steel) fitting with all complete.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	3	nos	1,200.00	3,600.00	7,200.00
	un skilled	4	nos	900.00	3,600.00	
materials	a. 2000 liter stainless steel water tank 304 grade steel with Inlet, outlet, over flow, cleanout hole etc. fitting with	1	nos	33,725.00	33,725.00	33,725.00
Actual rate						40,925.00
15% contractor overhead						6,138.75
Total (Rs.)						47,063.75

Rate per nos Rs. 47063.75

1039

500 Ltr PVC\HDPE Water Tank

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	3	nos	1,200.00	3,600.00	7,200.00
	un skilled	4	nos	900.00	3,600.00	
materials	a. 500 ltr PVC water tank with Inlet, outlet, over flow, cleanout hole etc.	1	nos	5,500.00	5,500.00	5,500.00
	b. Tanki nipples with wash out plug etc.	Ls			135.00	
Actual rate						12,700.00
15% contractor overhead						1,905.00
Total (Rs.)						14,605.00

Rate per nos Rs. 14605.00

1040

1000 Ltr. PVC\HDPE Water Tank

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	3	nos	1,200.00	3,600.00	7,200.00
	un skilled	4	nos	900.00	3,600.00	
materials	a. 1000Ltr. PVC water tank with Inlet, outlet, over flow, cleanout hole etc.	1	nos	11,000.00	11,000.00	11,188.00
	b. Tanki nipples with wash out plug etc.	Ls			188.00	
Actual rate						18,388.00
15% contractor overhead						2,758.20
Total (Rs.)						21,146.20

Rate per nos Rs. 21146.20

1041

2000 Ltr. PVC\HDPE Water Tank

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	3	nos	1,200.00	3,600.00	9,000.00
	un skilled	6	nos	900.00	5,400.00	
materials	a. 2000 Ltr. PVC water tank with Inlet, outlet, over flow, cleanout hole etc.	1	nos	24,000.00	24,000.00	24,241.00
	b. Tanki nipples with wash out plug etc.	Ls			241.00	
Actual rate						33,241.00
15% contractor overhead						4,986.15
Total (Rs.)						38,227.15

Rate per nos Rs. 38227.15

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1042

5000 Ltr. PVC\HDPE Water Tank

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	4	nos	1,200.00	4,800.00	12,000.00
	un skilled	8	nos	900.00	7,200.00	
materials	a.5000 Ltr. capacity pvc water tank with Inlet, outlet, over flow, cleanout hole etc.	1	nos	60,000.00	60,000.00	60,294.00
	b.Tanki nipples etc.	Ls			294.00	
Actual rate						72,294.00
15% contractor overhead						10,844.10
Total (Rs.)						83,138.10

Rate per nos Rs. 83138.10

1043

1 HP Chinese Pump

sources	Level	Qty	Unit	Rate/unit	cost	Total cost
labour	skilled	4	nos	1,200.00	4,800.00	6,600.00
	un skilled	2	nos	900.00	1,800.00	
materials	a. 1 HP Chinese pump	1	sets	3,368.00	3,368.00	3,408.00
	b. Zink Oxide, screw etc.	LS			40.00	
Actual rate						10,008.00
15% contractor overhead						1,501.20
Total (Rs.)						11,509.20

Rate per set Rs. 11509.20

1044

1 HP Chinese Pump (Submersible)

sources	Level	Qty	Unit	Rate/unit	cost	Total cost
labour	skilled	4	nos	1,200.00	4,800.00	6,600.00
	un skilled	2	nos	900.00	1,800.00	
materials	a. 1 HP Chinese submersible pump	1	sets	9,349.00	9,349.00	9,389.00
	b. Zink Oxide screw etc.	LS			40.00	
Actual rate						15,989.00
15% contractor overhead						2,398.35
Total (Rs.)						18,387.35

Rate per set Rs. 18387.35

1045

1.0 H.P. Electrical motor water pump, Submersible pump Italian or Equivalent.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	4	nos	1,200.00	4,800.00	6,600.00
	un skilled	2	nos	900.00	1,800.00	
materials	a.1.0 H P Electric motor pump (Submersible) Italian or equivalent	1	nos	28,072.00	28,072.00	28,112.00
	b.Zink oxide screws etc.	Ls			40.00	
Actual rate						34,712.00
15% contractor overhead						5,206.80
Total (Rs.)						39,918.80

Rate per set Rs. 39918.80

1046

1.5 H P Electric motor pump (Vertical Submersible) Sarvo/Bimal or equivalent

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	4	nos	1,200.00	4,800.00	6,600.00
	un skilled	2	nos	900.00	1,800.00	
materials	a.1.5 H P Electric motor pump (Submersible) Italian or equivalent	1	nos	33,920.00	33,920.00	33,960.00
	b.Zink oxide screws etc.	Ls			40.00	
Actual rate						40,560.00
15% contractor overhead						6,084.00
Total (Rs.)						46,644.00

Rate per set Rs. 46644.00

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1047

0.5 H.P. Electrical motor water pump, Monoblock type

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	4	nos	1,200.00	4,800.00	6,600.00
	un skilled	2	nos	900.00	1,800.00	
materials	a.0.5 H P Electric motor pump with base plate nuts, bolts etc.set Monoblock type	1	nos	6,446.00	6,446.00	6,486.00
	b.Zink oxide screws etc.	Ls			40.00	
Actual rate						13,086.00
15% contractor overhead						1,962.90
Total (Rs.)						15,048.90

Rate per set Rs. 15048.90

1048

1.0 H.P. Electrical motor water pump, Monoblock type

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	4	nos	1,200.00	4,800.00	6,600.00
	un skilled	2	nos	900.00	1,800.00	
materials	a.1.0 H P Electric motor pump with base plate nuts,bolts,etc.set Monoblock type	1	nos	9,749.00	9,749.00	9,789.00
	b.Zink oxide screws etc.	Ls			40.00	
Actual rate						16,389.00
15% contractor overhead						2,458.35
Total (Rs.)						18,847.35

Rate per set Rs. 18847.35

1049

1 H.P. Electrical motor water pump Multi stage

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	4	nos	1,200.00	4,800.00	6,600.00
	un skilled	2	nos	900.00	1,800.00	
materials	a.1 H P Electric motor pump with base plate nuts, bolts etc.set Multi stage	1	nos	14,686.00	14,686.00	14,726.00
	b.Zink oxide screws etc.	Ls			40.00	
Actual rate						21,326.00
15% contractor overhead						3,198.90
Total (Rs.)						24,524.90

Rate per set Rs. 24524.90

1050

Suppling and fixing of 1 Hp water pump (mono block type) all complete

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	4	nos	1,200.00	4,800.00	7,500.00
	un skilled	3	nos	900.00	2,700.00	
materials	1 Hp water pump (mono block type)	1	nos	9,749.00	9,749.00	9,789.00
	b.Zink oxide screws etc.	Ls			40.00	
Actual rate						17,289.00
15% contractor overhead						2,593.35
Total (Rs.)						19,882.35

Rate per set Rs. 19882.35

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1051

3 H.P. Electrical motor water pump Monoblock type

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	4	nos	1,200.00	4,800.00	8,400.00
	un skilled	4	nos	900.00	3,600.00	
materials	a. 3 H P Electricmotor pump with base plate nuts, bolts etc.set	1	nos	24,562.00	24,562.00	24,602.00
	b.Zink oxide screws etc.	Ls			40.00	
Actual rate						33,002.00
15% contractor overhead						4,950.30
Total (Rs.)						37,952.30

Rate per set Rs. 37952.30

1052

Indian Submersible Pump (Standard Company) I.S.O 9001-2008 5 H.P

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	6	nos	1,200.00	7,200.00	10,800.00
	un skilled	4	nos	900.00	3,600.00	
materials	Indian Submersible Pump (Standard Company) I.S.O 9001-2008 5 H.P	1	nos	68,355.00	68,355.00	68,395.00
	b.Zink oxide screws etc.	Ls			40.00	
Actual rate						79,195.00
15% contractor overhead						11,879.25
Total (Rs.)						91,074.25

Rate per set Rs. 91074.25

1053

Motor Starter Switch (Crompton or Eqv.)

sources	Level	Qty	Unit	Rate/unit	cost	Total cost
labour	skilled	0.25	nos	1,200.00	300.00	453.00
	un skilled	0.17	nos	900.00	153.00	
materials	a. Motor Starter Switch (Crompton or Eqv.)	1	nos	3,398.00	3,398.00	3,398.00
Actual rate						3,851.00
15% contractor overhead						577.65
Total (Rs.)						4,428.65

Rate per no Rs. 4428.65

1054

Pressure Senser Switch (Italian or Eqv.)

sources	Level	Qty	Unit	Rate/unit	cost	Total cost
labour	skilled	0.25	nos	1,200.00	300.00	453.00
	un skilled	0.17	nos	900.00	153.00	
materials	Pressure Senser Switch (Italian or Eqv.)	1	nos	3,675.00	3,675.00	3,675.00
Actual rate						4,128.00
15% contractor overhead						619.20
Total (Rs.)						4,747.20

Rate per no Rs. 4747.20

1055

Porcelain Clay White Glazed Toilet Paper Holder

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled(1/9)	0.11	nos	1,200.00	132.00	132.00
materials	a. Porcelain Clay White Glazed Toilet Paper Holder	1	nos	1,192.00	1,192.00	1,232.00
	b. Zink oxide screw etc.	Ls			40.00	
Actual rate						1,364.00
15% contractor overhead						204.60
Total (Rs.)						1,568.60

Rate per nos Rs. 1568.60

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1056

Chrome Plate Toilet Paper Holder

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	a.Chrome plate toilet paper holder	1	nos	475.00	475.00	
	b.Zink oxide screw etc.	Ls			40.00	515.00
Actual rate						647.00
15% contractor overhead						97.05
Total (Rs.)						744.05

Rate per nos Rs. 744.05

1057

Stainless Steel Liquid Soap Container European Pattern

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	a. Stainless Steel Liquid Soap container European pattern all complete.	1	nos	6,244.00	6,244.00	
	b.Zink oxide screw etc.	Ls			40.00	6,284.00
Actual rate						6,416.00
15% contractor overhead						962.40
Total (Rs.)						7,378.40

Rate per nos Rs. 7378.40

1058

White Glazed Porcelain Clay Soap Dish (15x15) cm/(6"X 6") Size

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	a.White glaze soap dish	1	nos	681.00	681.00	
	b.Zink oxide screw etc.	Ls			40.00	721.00
Actual rate						853.00
15% contractor overhead						127.95
Total (Rs.)						980.95

Rate per nos Rs. 980.95

1059

Chrome Plate Soap Dish.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	a.C.P Soap dish	1	nos	350.00	350.00	
	b.Zink oxide screw etc.	Ls			40.00	390.00
Actual rate						522.00
15% contractor overhead						78.30
Total (Rs.)						600.30

Rate per nos Rs. 600.30

1060

C.P.Soap Dish (polyurethane).

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	a.C.P Soap dish	1	nos	1,073.00	1,073.00	
	b.Zink oxide screw etc.	Ls			40.00	1,113.00
Actual rate						1,245.00
15% contractor overhead						186.75
Total (Rs.)						1,431.75

Rate per nos Rs. 1431.75

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1061

Stainless Steel towel rod 1.5x45cm (½"x18") size

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.22	nos	1,200.00	264.00	264.00
materials	a . Stainless Steel Towel rod	1	nos	1,277.00	1,277.00	1,317.00
	b. Screws etc.	Ls			40.00	
Actual rate						1,581.00
15% contractor overhead						237.15
Total (Rs.)						1,818.15

Rate per nos Rs. 1818.15

1062

C P towel rod good

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.22	nos	1,200.00	264.00	264.00
materials	a . C PTowel rod good	1	nos	850.00	850.00	890.00
	b. Screws etc.	Ls			40.00	
Actual rate						1,154.00
15% contractor overhead						173.10
Total (Rs.)						1,327.10

Rate per nos Rs. 1327.10

1063

C P towel rod 1.5x60cm (½"x 24") size

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled(2/9)	0.22	nos	1,200.00	264.00	264.00
materials	a .C P Towel rod 1.5x60cm (½"x 24")	1	nos	525.00	525.00	565.00
	b. Screws	Ls			40.00	
Actual rate						829.00
15% contractor overhead						124.35
Total (Rs.)						953.35

Rate per nos Rs. 953.35

1064

C P towel rod 18" size Heavy

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.22	nos	1,200.00	264.00	264.00
materials	a . C PTowel rod 18" size Heavy	1	nos	1,625.00	1,625.00	1,665.00
	b. Screws etc.	Ls			40.00	
Actual rate						1,929.00
15% contractor overhead						289.35
Total (Rs.)						2,218.35

Rate per nos Rs. 2218.35

1065

C P towel rod 24" size Heavy

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled(2/9)	0.22	nos	1,200.00	264.00	264.00
materials	a .C P Towel rod 24" size Heavy	1	nos	1,713.00	1,713.00	1,753.00
	b. Screws	Ls			40.00	
Actual rate						2,017.00
15% contractor overhead						302.55
Total (Rs.)						2,319.55

Rate per nos Rs. 2319.55

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1066

Glass Shelf with CP Guard Rail

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.22	nos	1,200.00	264.00	264.00
materials	a. C P Guard rail with glass	1	nos	700.00	700.00	
	b. Screws etc.	Ls			40.00	740.00
Actual rate						1,004.00
15% contractor overhead						150.60
Total (Rs.)						1,154.60

Rate per nos Rs. 1154.60

1067

C.P. Glass Shelf 22" size

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.22	nos	1,200.00	264.00	264.00
materials	a. C.P. Glass Shelf 22" size	1	nos	2,328.00	2,328.00	
	b. Screws etc.	Ls			40.00	2,368.00
Actual rate						2,632.00
15% contractor overhead						394.80
Total (Rs.)						3,026.80

Rate per nos Rs. 3026.80

1068

Porcelain clay Basin Shelf European pattern

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.22	nos	1,200.00	264.00	264.00
materials	a. Porcelain clay basin shelf	1	nos	3,653.00	3,653.00	
	b. Screws etc.	Ls			40.00	3,693.00
Actual rate						3,957.00
15% contractor overhead						593.55
Total (Rs.)						4,550.55

Rate per nos Rs. 4550.55

1069

Looking Mirror 55x40cm (22"x 16")

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled(1/3)	0.33	nos	1,200.00	396.00	396.00
materials	a. Bevelled edge looking mirror	1	nos	600.00	600.00	
	b. Screws	Ls			40.00	640.00
Actual rate						1,036.00
15% contractor overhead						155.40
Total (Rs.)						1,191.40

Rate per nos Rs. 1191.40

1070

Looking Mirror Simple 20"X16"

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.33	nos	1,200.00	396.00	396.00
materials	a. Looking Mirror Simple	1	nos	695.00	695.00	
	b. Screws	Ls			40.00	735.00
Actual rate						1,131.00
15% contractor overhead						169.65
Total (Rs.)						1,300.65

Rate per nos Rs. 1300.65

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1071

73 mm Ms Seamless Pipes SCH 40

sources	Level	Qty	Unit	Rate/unit	Cost	Total Cost
labour	skilled	2.7	nos	1,200.00	3,240.00	6,120.00
	un skilled	3.2	nos	900.00	2,880.00	
materials	a 73 mm OD Ms Seamless pipes SCH 40, 5.16 mm thick	1	Rm	1,952.00	1,895.00	2,245.00
	b. Jointing materials and painting	Ls			350.00	
Actual rate						8,365.00
15% contractor overhead						1,254.75
Total (Rs.)						9,619.75

Rate per Rm Rs.. 9619.75

1072

101.6 mm Ms Seamless Pipes SCH 40

sources	Level	Qty	Unit	Rate/unit	Cost	Total Cost
labour	skilled	2.7	nos	1,200.00	3,240.00	6,120.00
	un skilled	3.2	nos	900.00	2,880.00	
materials	a 101.6 mm Ms Seamless pipes SCH 40 ,5.74mm thickness	1	Rm	3,301.00	3,301.00	3,651.00
	b. Jointing materials and painting	Ls			350.00	
Actual rate						9,771.00
15% contractor overhead						1,465.65
Total (Rs.)						11,236.65

Rate per Rm Rs.. 11236.65

1073

CP Shower rose 7.5 cm (3") dia

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.33	nos	1,200.00	396.00	396.00
materials	a.7.5cm dia shower rose fancy type with 30cm CP rod	1	nos	933.00	933.00	933.00
Actual rate						1,329.00
15% contractor overhead						199.35
Total (Rs.)						1,528.35

Rate per nos Rs. 1528.35

1074

Stainless Steel Shower rose

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.33	nos	1,200.00	396.00	396.00
materials	Stainless Steel Shower rose with complete set.	1	nos	680.00	680.00	680.00
Actual rate						1,076.00
15% contractor overhead						161.40
Total (Rs.)						1,237.40

Rate per nos Rs. 1237.40

1075

Stainless Steel Shower rose with sliding bar complete set.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.33	nos	1,200.00	396.00	396.00
materials	75mm C.P Rose Revolving joint	1	nos	933.00	933.00	933.00
	190mm long Shower arm	1	nos	408.00	408.00	408.00
Actual rate						1,737.00
15% contractor overhead						260.55
Total (Rs.)						1,997.55

Rate per nos Rs. 1997.55

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1076

Stainless steel telephonic Shower Rose

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.33	nos	1,200.00	396.00	396.00
materials	Stainless steel telephonic Shower Rose	1	nos	1,277.00	1,277.00	1,277.00
Actual rate						1,673.00
15% contractor overhead						250.95
Total (Rs.)						1,923.95

Rate per nos Rs. 1923.95

1077

Shower head with arm and flange

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.33	nos	1,200.00	396.00	396.00
materials	Shower head with arm and hinge	1	nos	2,074.00	2,074.00	2,074.00
Actual rate						2,470.00
15% contractor overhead						370.50
Total (Rs.)						2,840.50

Rate per nos Rs. 2840.50

1078

32 mm C.P . Flush Valve (Jacquar,Somany,Essel or eqv.)

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	32 mm C.P Flush valve (Jacquar,Somany,Essel or eqv.)	1	nos	5,566.00	5,566.00	5,566.00
Actual rate						5,698.00
15% contractor overhead						854.70
Total (Rs.)						6,552.70

Rate per nos Rs. 6552.70

1079

Sensor type Flush valve for urinal (Jacquar,Somany,Essel or eqv.)

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	Flush valve for urinal sensor type	1	nos	10,971.00	10,971.00	10,971.00
Actual rate						11,103.00
15% contractor overhead						1,665.45
Total (Rs.)						12,768.45

Rate per nos Rs. 12768.45

1080

Sensor type Basin Cock (Battery operating)

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	1.00	nos	1,200.00	1,200.00	1,200.00
materials	basin cock sensor (Battery operating)	1	nos	14,851.00	14,851.00	14,851.00
Actual rate						16,051.00
15% contractor overhead						2,407.65
Total (Rs.)						18,458.65

Rate per set Rs. 18458.65

1081

Sensor mixer for basin (Battery operating)

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	1.00	nos	1,200.00	1,200.00	1,200.00
materials	Sensor mixer for Wash basin (Battery operating)	1	nos	21,095.00	21,095.00	21,095.00
Actual rate						22,295.00
15% contractor overhead						3,344.25
Total (Rs.)						25,639.25

Rate per set Rs. 25639.25

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1082

15mm CP Bib Cock

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	15mm CP bib cock	1	nos	1,050.00	1,050.00	1,050.00
Actual rate						1,182.00
15% contractor overhead						177.30
Total (Rs.)						1,359.30

Rate per nos Rs. 1359.30

1083

15mm CP Swan Neck Pillar Cock

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	15mm CP Swan Neck Pillar Cock	1	nos	1,200.00	1,200.00	1,200.00
Actual rate						1,332.00
15% contractor overhead						199.80
Total (Rs.)						1,531.80

Rate per nos Rs. 1531.80

1084

15mm CP Piller Cock with aerator

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	15mm CP Piller Cock with aerator	1	nos	1,301.00	1,301.00	1,301.00
Actual rate						1,433.00
15% contractor overhead						214.95
Total (Rs.)						1,647.95

Rate per nos Rs. 1647.95

1085

15mm C.P.Concealed Stop Cock

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	15mm C.P.Concealed Stop Cock	1	nos	1,861.00	1,861.00	1,861.00
Actual rate						1,993.00
15% contractor overhead						298.95
Total (Rs.)						2,291.95

Rate per nos Rs. 2291.95

1086

15mm C.P.Sink Cock

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	15mm C.P.Sink Cock	1	nos	1,348.00	1,348.00	1,348.00
Actual rate						1,480.00
15% contractor overhead						222.00
Total (Rs.)						1,702.00

Rate per nos Rs. 1702.00

1087

15mm C.P. Angle valve

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	a. 15mm C.P. Angle valve	1	nos	1,281.00	1,281.00	1,281.00
Actual rate						1,413.00
15% contractor overhead						211.95
Total (Rs.)						1,624.95

Rate per nos Rs. 1624.95

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1088

C.P. Sink Mixer

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	a. C.P.Sink mixture complete set.	1	nos	4,200.00	4,200.00	4,225.00
	b. Jointing material set.				25.00	
Actual rate						4,357.00
15% contractor overhead						653.55
Total (Rs.)						5,010.55

Rate per set Rs. 5010.55

1089

C.P. Basin Mixer

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	a. C.P. Basin mixture complete set.	1	nos	4,779.00	4,779.00	4,779.00
Actual rate						4,911.00
15% contractor overhead						736.65
Total (Rs.)						5,647.65

Rate per set Rs. 5647.65

1090

C.P. Wall Mixer

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	a. 15 mm C.P. Wall mixture complete set.	1	nos	4,500.00	4,500.00	4,500.00
Actual rate						4,632.00
15% contractor overhead						694.80
Total (Rs.)						5,326.80

Rate per set Rs. 5326.80

1091

15mm Stainless Steel Bib Cock

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	a. 15mm Stainless Steel bib cock	1	nos	4,425.00	4,425.00	4,425.00
Actual rate						4,557.00
15% contractor overhead						683.55
Total (Rs.)						5,240.55

Rate per nos Rs. 5240.55

1092

15mm Stainless Steel Pillar Cock

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	a. 15mm Stainless Steel Pillar cock	1	nos	4,425.00	4,425.00	4,425.00
Actual rate						4,557.00
15% contractor overhead						683.55
Total (Rs.)						5,240.55

Rate per nos Rs. 5240.55

1093

15mm Stainless Steel Sink Cock

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	a. 15mm Stainless Steel Sink cock	1	nos	5,565.00	5,565.00	5,565.00
Actual rate						5,697.00
15% contractor overhead						854.55
Total (Rs.)						6,551.55

Rate per nos Rs. 6551.55

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1094

15mm S.S.Concealed mixture

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	a. 15mm S.S.Concealed mixture	1	nos	6,455.00	6,455.00	6,455.00
Actual rate						6,587.00
15% contractor overhead						988.05
Total (Rs.)						7,575.05

Rate per set Rs. 7575.05

1095

15mm Stainless Steel Angle valve

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	a. 15mm Stainless Steel angle valve	1	nos	852.00	852.00	852.00
Actual rate						984.00
15% contractor overhead						147.60
Total (Rs.)						1,131.60

Rate per nos Rs. 1131.60

1096

15mm Stainless Steel two way angle valve

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	a. 15mm Stainless Steel two way angle valve	1	nos	1,192.00	1,192.00	1,192.00
Actual rate						1,324.00
15% contractor overhead						198.60
Total (Rs.)						1,522.60

Rate per nos Rs. 1522.60

1097

Stainless Steel Wall Mixer

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	a. Stainless Steel Wall mixture complete set.	1	nos	4,307.00	4,307.00	4,307.00
Actual rate						4,439.00
15% contractor overhead						665.85
Total (Rs.)						5,104.85

Rate per set Rs. 5104.85

1098

Stainless Steel Sink Mixer

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	a. Stainless Steel Sink mixture complete set.	1	nos	8,660.00	8,660.00	8,660.00
	b. Jointing material set.				25.00	25.00
Actual rate						8,817.00
15% contractor overhead						1,322.55
Total (Rs.)						10,139.55

Rate per set Rs. 10139.55

1099

Stainless Steel Basin Mixer

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	a. Stainless Steel Basin mixture complete set.	1	nos	7,151.00	7,151.00	7,151.00
Actual rate						7,283.00
15% contractor overhead						1,092.45
Total (Rs.)						8,375.45

Rate per set Rs. 8375.45

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1100

15mm C.P. Urinal Auto closing Valve with built in control cock

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	a. 15mm C.P. Urinal Auto closing valve with built - in control cock	1	nos	2,775.00	2,775.00	2,775.00
Actual rate						2,907.00
15% contractor overhead						436.05
Total (Rs.)						3,343.05

Rate per nos Rs. 3343.05

1101

15mm C.P. Auto closing Bib Cock with aerator

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	a. 15mm Auto closing bib cock with aerator	1	nos	2,698.00	2,698.00	2,698.00
Actual rate						2,830.00
15% contractor overhead						424.50
Total (Rs.)						3,254.50

Rate per nos Rs. 3254.50

1102

15mm C.P. Auto Closing Pillar Cock with Aerator

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	a. 15mm C.P. Auto Closing Pillar Cock with Aerator	1	nos	2,603.00	2,603.00	2,603.00
Actual rate						2,735.00
15% contractor overhead						410.25
Total (Rs.)						3,145.25

Rate per nos Rs. 3145.25

1103

15mm C.P. Commode Spray

sources	Level	Qty	Unit	Rate/unit	cost	Total cost
labour	skilled	0.25	nos	1,200.00	300.00	453.00
	un skilled	0.17	nos	900.00	153.00	
materials	a. Water spray (Health faucet) with 1.2 m. long flexible pipe.	1	sets	2,236.00	2,236.00	2,236.00
Actual rate						2,689.00
15% contractor overhead						403.35
Total (Rs.)						3,092.35

Rate per No Rs. 3092.35

1104

15mm C.P. flush cock push type

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	a. 15mm C.P. flush cock push type	1	nos	1,167.00	1,167.00	1,167.00
Actual rate						1,299.00
15% contractor overhead						194.85
Total (Rs.)						1,493.85

Rate per nos Rs. 1493.85

1105

15mm Urinal C.P. Spreader

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	a. 15mm Urinal C.P. Spreader	1	nos	968.00	968.00	968.00
Actual rate						1,100.00
15% contractor overhead						165.00
Total (Rs.)						1,265.00

Rate per nos Rs. 1265.00

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1106

C.P. Handrail for Water closet (Swing Type)

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled(1/9)	0.22	nos	1,200.00	264.00	264.00
materials	a. C.P. Handrail for Water closet (Swing Type)	1	nos	5,500.00	5,500.00	5,540.00
	b. Zink oxide screw etc.	Ls			40.00	
Actual rate						5,804.00
15% contractor overhead						870.60
Total (Rs.)						6,674.60

Rate per nos Rs. 6674.60

1107

C.P. Grab bar European pattern 600-900mm long bend type Grohe, Essel or Eqv.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled(1/9)	0.22	nos	1,200.00	264.00	264.00
materials	a. C.P. Grab bar European pattern 600-900mm long bend type Grohe, Essel or equivalent	1	nos	7,404.00	7,404.00	7,444.00
	b. Zink oxide screw etc.	Ls			40.00	
Actual rate						7,708.00
15% contractor overhead						1,156.20
Total (Rs.)						8,864.20

Rate per nos Rs. 8864.20

1108

G.M. 15mm Gate Valve

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.22	nos	1,200.00	264.00	264.00
materials	a.G.M.15mm gate valve	1	nos	751.00	751.00	751.00
Actual rate						1,015.00
15% contractor overhead						152.25
Total (Rs.)						1,167.25

Rate per nos Rs. 1167.25

1109

G.M. 20mm Gate Valve

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.22	nos	1,200.00	264.00	264.00
materials	a.G.M.20mm gate valve	1	nos	1,050.00	1,050.00	1,050.00
Actual rate						1,314.00
15% contractor overhead						197.10
Total (Rs.)						1,511.10

Rate per nos Rs. 1511.10

1110

G.M. 25mm Gate Valve

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.22	nos	1,200.00	264.00	264.00
materials	a.G.M.25mm gate valve	1	nos	1,600.00	1,600.00	1,600.00
Actual rate						1,864.00
15% contractor overhead						279.60
Total (Rs.)						2,143.60

Rate per nos Rs. 2143.60

1111

G.M.32 mm Gate Valve

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.22	nos	1,200.00	264.00	264.00
materials	a.G.M.32 mm gate valve	1	nos	2,330.00	2,330.00	2,330.00
Actual rate						2,594.00
15% contractor overhead						389.10
Total (Rs.)						2,983.10

Rate per nos Rs. 2983.10

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1112

G.M. 40 mm Gate Valve

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.44	nos	1,200.00	528.00	528.00
materials	a.G.M.40mm gate valve	1	nos	3,133.00	3,133.00	3,133.00
Actual rate						3,661.00
15% contractor overhead						549.15
Rate per nos Rs. 4210.15						4,210.15

1113

G.M. 50 mm Gate Valve

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.44	nos	1,200.00	528.00	528.00
materials	a.G.M.50 mm gate valve	1	nos	4,883.00	4,883.00	4,883.00
Actual rate						5,411.00
15% contractor overhead						811.65
Rate per nos Rs. 6222.65						6,222.65

1114

G.M.65 mm Gate Valve

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.44	nos	1,200.00	528.00	528.00
materials	a.G.M.65 mm gate valve	1	nos	8,772.00	8,772.00	8,772.00
Actual rate						9,300.00
15% contractor overhead						1,395.00
Rate per nos Rs. 10695.00						10,695.00

1115

G.M 80 mm Gate Valve

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.80	nos	1,200.00	960.00	960.00
materials	a.G.M.80 mm gate valve	1	nos	12,080.00	12,080.00	12,080.00
Actual rate						13,040.00
15% contractor overhead						1,956.00
Rate per nos Rs. 14996.00						14,996.00

1116

G.M.100 mm Gate Valve

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.80	nos	1,200.00	960.00	960.00
materials	a.G.M.100 mm gate valve	1	nos	20,590.00	20,590.00	20,590.00
Actual rate						21,550.00
15% contractor overhead						3,232.50
Rate per nos Rs. 24782.50						24,782.50

1117

15 mm GM Check Valve

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	a.15 mm G M check valve	1	nos	893.00	893.00	893.00
Actual rate						1,025.00
15% contractor overhead						153.75
Rate per nos Rs. 1178.75						1,178.75

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1118

20 mm GM Check Valve

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.22	nos	1,200.00	264.00	264.00
materials	a. 20 mm G M check valve	1	nos	1,200.00	1,200.00	1,200.00
Actual rate						1,464.00
15% contractor overhead						219.60
Total (Rs.)						1,683.60

Rate per nos Rs. 1683.60

1119

25 mm GM Check Valve

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.22	nos	1,200.00	264.00	264.00
materials	a.25 mm G M check valve	1	nos	1,775.00	1,775.00	1,775.00
Actual rate						2,039.00
15% contractor overhead						305.85
Total (Rs.)						2,344.85

Rate per nos Rs. 2344.85

1120

32 mm GM Check Valve

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.22	nos	1,200.00	264.00	264.00
materials	a.32 mm G M check valve	1	nos	2,623.00	2,623.00	2,623.00
Actual rate						2,887.00
15% contractor overhead						433.05
Total (Rs.)						3,320.05

Rate per nos Rs. 3320.05

1121

50mm GM Check Valve

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.33	nos	1,200.00	396.00	396.00
materials	a 50 mm G M check valve	1	nos	5,033.00	5,033.00	5,033.00
Actual rate						5,429.00
15% contractor overhead						814.35
Total (Rs.)						6,243.35

Rate per nos Rs. 6243.35

1122

65mm GM Check Valve

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.44	nos	1,200.00	528.00	528.00
materials	a. 65 mm G M check valve	1	nos	10,225.00	10,225.00	10,225.00
Actual rate						10,753.00
15% contractor overhead						1,612.95
Total (Rs.)						12,365.95

Rate per nos Rs. 12365.95

1123

80mm GM Check Valve

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.44	nos	1,200.00	528.00	528.00
materials	a.80 mm G M check valve	1	nos	13,657.00	13,657.00	13,657.00
Actual rate						14,185.00
15% contractor overhead						2,127.75
Total (Rs.)						16,312.75

Rate per nos Rs. 16312.75

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1124

100mm GM Check Valve

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.44	nos	1,200.00	528.00	528.00
materials	100mm GM CHECK VALVE	1	nos	19,301.00	19,301.00	19,301.00
Actual rate						19,829.00
15% contractor overhead						2,974.35
Total (Rs.)						22,803.35

Rate per nos Rs. 22803.35

1125

G.M. 15mm Float Valve

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.22	nos	1,200.00	264.00	264.00
materials	G.M. 15mm float valve	1	nos	1,134.00	1,134.00	1,134.00
Actual rate						1,398.00
15% contractor overhead						209.70
Total (Rs.)						1,607.70

Rate per nos Rs. 1607.70

1126

G.M. 25mm Float Valve

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.22	nos	1,200.00	264.00	264.00
materials	G.M. 25mm float valve	1	nos	1,556.00	1,556.00	1,556.00
Actual rate						1,820.00
15% contractor overhead						273.00
Total (Rs.)						2,093.00

Rate per nos Rs. 2093.00

1127

Floor Trap Steel

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	222.00
	un skilled	0.10	nos	900.00	90.00	
materials	Floor Trap Steel	1	nos	465.85	465.85	465.85
Actual rate						687.85
15% contractor overhead						103.18
Total (Rs.)						791.03

Rate per nos Rs. 791.03

1128

PVC Grating 100mm (4") dia

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.06	nos	1,200.00	72.00	72.00
materials	PVC Grating 100 mm dia	1	nos	40.00	40.00	40.00
Actual rate						112.00
15% contractor overhead						16.80
Total (Rs.)						128.80

Rate per nos. Rs. 128.80

1129

C P Grating

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.06	nos	1,200.00	72.00	72.00
materials	C P Grating	1	nos	700.00	700.00	700.00
Actual rate						772.00
15% contractor overhead						115.80
Total (Rs.)						887.80

Rate per nos. Rs. 887.80

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1130

C P Grating 12.5cm (5") dia

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.06	nos	1,200.00	72.00	72.00
materials	C P Grating 12.5cm (5") dia size	1	nos	64.00	64.00	64.00
Actual rate						136.00
15% contractor overhead						20.40
Total (Rs.)						156.40

Rate per nos. Rs. 156.40

1131

Aluminium Grating 100mm (4") dia

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.06	nos	1,200.00	72.00	72.00
materials	Aluminium Grating 100 mm (4") dia	1	nos	43.00	43.00	43.00
Actual rate						115.00
15% contractor overhead						17.25
Total (Rs.)						132.25

Rate per nos. Rs. 132.25

1132

160 mm dia DWV UPVC Pipe SN-4, Astral or eqv.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	1.09	nos	1,200.00	1,308.00	1,893.00
	un skilled	0.65	nos	900.00	585.00	
materials	a . 160 mm dia DWV UPVC Pipe SN-4, Astral or eqv.	1	Rm	1,391.00	1,391.00	1,391.00
Actual rate						3,284.00
15% contractor overhead						492.60
Total (Rs.)						3,776.60

Rate per Rm Rs. 3776.60

1133

110 mm dia DWV UPVC Pipe SN-4, Astral or eqv.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.17	nos	1,200.00	204.00	384.00
	un skilled	0.20	nos	900.00	180.00	
materials	a . 110 mm dia DWV Upvc Pipe with Double sockets SN-4, Astral or eqv.	1	Rm	473.00	473.00	473.00
Actual rate						857.00
15% contractor overhead						128.55
Total (Rs.)						985.55

Rate per Rm Rs. 985.55

1134

75 mm dia DWV UPVC Pipe SN-4, Astral or eqv.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	231.00
	un skilled	0.11	nos	900.00	99.00	
materials	a. 75 mm dia DWV Upvc Pipe with foamcore Double sockets SN-4, Astral or eqv.	1	Rm	262.00	262.00	262.00
Actual rate						493.00
15% contractor overhead						73.95
Total (Rs.)						566.95

Rate per Rm Rs. 566.95

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1135

15mm G. I . Pipe 'B ' class (MEDIUM)

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.18	nos	1,200.00	216.00	360.00
	un skilled	0.16	nos	900.00	144.00	
materials	a.15 mm G. I . Pipe 'B ' class	1	Rm	181.00	181.00	306.00
	b. G I fitting and painting	Ls			100.00	
	c. Jointing materials	Ls			25.00	
Actual rate						666.00
15% contractor overhead						99.90
Total (Rs.)						765.90

Rate per Rm Rs. 765.90

1136

20 mm G. I . Pipe 'B ' class (MEDIUM)

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.18	nos	1,200.00	216.00	360.00
	un skilled	0.16	nos	900.00	144.00	
materials	a. 20 mm G. I . Pipe 'B ' class	1	Rm	232.00	232.00	357.00
	b. G I fitting and painting	Ls			100.00	
	c. Jointing materials	Ls			25.00	
Actual rate						717.00
15% contractor overhead						107.55
Total (Rs.)						824.55

Rate per Rm Rs. 824.55

1137

25 mm G. I . Pipe 'B ' class (MEDIUM)

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.18	nos	1,200.00	216.00	504.00
	un skilled	0.32	nos	900.00	288.00	
materials	a. 25 mm G. I . Pipe 'B ' class	1	Rm	322.00	322.00	472.00
	b. G I fitting and painting	Ls			125.00	
	c. Jointing materials	Ls			25.00	
Actual rate						976.00
15% contractor overhead						146.40
Total (Rs.)						1,122.40

Rate per Rm Rs. 1122.40

1138

32 mm G. I . Pipe 'B ' class (MEDIUM)

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.18	nos	1,200.00	216.00	504.00
	un skilled	0.32	nos	900.00	288.00	
materials	a. 32 mm G. I . Pipe 'B ' class	1	Rm	411.00	411.00	561.00
	b. G I fitting and painting	Ls			125.00	
	c. Jointing materials	Ls			25.00	
Actual rate						1,065.00
15% contractor overhead						159.75
Total (Rs.)						1,224.75

Rate per Rm Rs. 1224.75

1139

40 mm G. I . Pipe 'B ' class (MEDIUM)

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.27	nos	1,200.00	324.00	612.00
	un skilled	0.32	nos	900.00	288.00	
materials	a.40 mm G. I . Pipe 'B ' class	1	Rm	508.00	508.00	668.00
	b. G I fitting and painting	Ls			135.00	
	c. Jointing materials	Ls			25.00	
Actual rate						1,280.00
15% contractor overhead						192.00
Total (Rs.)						1,472.00

Rate per Rm Rs. 1472.00

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1140

50mm G. I. Pipe 'B' class (MEDIUM)

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.27	nos	1,200.00	324.00	612.00
	un skilled	0.32	nos	900.00	288.00	
materials	a. 50 mm G. I. Pipe 'B' class	1	Rm	641.00	641.00	816.00
	b. G I fitting and painting	Ls			150.00	
	c. Jointing materials	Ls			25.00	
Actual rate						1,428.00
15% contractor overhead						214.20
Total (Rs.)						1,642.20

Rate per Rm Rs. 1642.20

1141

80mm G. I. Pipe 'B' class (MEDIUM)

sources	Level	Qty	Unit	Rate/unit	Cost	Total Cost
labour	skilled	0.27	nos	1,200.00	324.00	612.00
	un skilled	0.32	nos	900.00	288.00	
materials	a. 80 mm G. I. Pipe 'B' class	1	Rm	1,038.00	1,038.00	1,238.00
	b. G I fitting and painting	Ls			175.00	
	c. Jointing materials	Ls			25.00	
Actual rate						1,850.00
15% contractor overhead						277.50
Total (Rs.)						2,127.50

Rate per Rm Rs. 2127.50

1142

9 cm Concealed Flushing Cistern (Geberit/Viega or Eqv.)

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	2	nos	1,200.00	2,400.00	3,320.00
	un skilled	2	nos	900.00	1,800.00	
materials	a. 9 cm Concealed flushing cistern complete accessories (Geberit/Viega or eqv.)	1	nos	300.00		3,646.00
	b. Dual flush Actuator plate	1	nos	3,646.00	3,646.00	
Actual rate						6,966.00
15% contractor overhead						1,044.90
Total (Rs.)						8,010.90

Rate per set Rs. 8,010.90

1143

Inspection Plastic Chamber 315mm (12"X12") with base, riser and cover all complete.

sources	Level	Qty	Unit	Rate/unit	cost	Total cost
labour	skilled	0.33	nos	1,200.00	396.00	396.00
materials	Inspection Chamber body 32cm	1	nos	3,300.00	3,300.00	8,051.00
	Inspection Chamber Riser	1	nos	1,639.00	1,639.00	
	Inspection Chamber Lid with cover	1	nos	3,112.00	3,112.00	
Actual rate						8,447.00
15% contractor overhead						1,267.05
Total (Rs.)						9,714.05

Rate per set Rs. 9714.05

1144

Inspection Plastic Chamber 45cm dia (18"X18") with base, riser and cover all complete.

sources	Level	Qty	Unit	Rate/unit	cost	Total cost
labour	skilled	0.33	nos	1,200.00	396.00	396.00
materials	Inspection Chamber body 45x45cm	1	nos	9,112.00	9,112.00	16,844.00
	Inspection Chamber Riser	1	nos	2,897.00	2,897.00	
	Inspection Chamber Lid with cover	1	nos	4,835.00	4,835.00	
Actual rate						17,240.00
15% contractor overhead						2,586.00
Total (Rs.)						19,826.00

Rate per set Rs. 19826.00

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1145

50 mm dia PVC Pipe 6 kg/cm2.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled(1/18)	0.06	nos	1,200.00	72.00	162.00
	un skilled(1/10)	0.10	nos	900.00	90.00	
materials	a.50 mm dia. PVC pipe 6 kg/cm2.	1	RM	101.85	101.85	126.85
	b. Jointing materialsetc.		Ls		25.00	
fittings	120% of pipe cost					122.22
Actual rate						411.07
15% contractor overhead						61.66
Total (Rs.)						472.73

Rate per Rm Rs. 472.73

1146

75 mm dia PVC Pipe 6 kg/cm2.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	231.00
	un skilled	0.11	nos	900.00	99.00	
materials	a.75 mm dia. PVC pipe 6 kg/cm2.	1	Rm	263.00	263.00	288.00
	b. Jointing materialsetc.		Ls		25.00	
fittings	35% of pipe cost					92.05
Actual rate						611.05
15% contractor overhead						91.66
Total (Rs.)						702.71

Rate per Rm Rs.

702.71

1147

110 mm dia UPVC Pipe 6 kg/cm2.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.17	nos	1,200.00	204.00	384.00
	un skilled	0.20	nos	900.00	180.00	
materials	a.110 mm dia. UPVC pipe 6 kg/cm2.	1	Rm	466.00	466.00	491.00
	b. Jointing material setc.		Ls		25.00	
fittings	25% of pipe cost					116.50
Actual rate						991.50
15% contractor overhead						148.73
Total (Rs.)						1,140.23

Rate per Rm Rs.

1140.23

1148

Euro Guard water purification set with all necessary accessories (1 litre /min).

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	3	nos	1,200.00	3,600.00	5,400.00
	un skilled	2	nos	900.00	1,800.00	
materials	a.Euro Guard water purification set with all necessary accessories (1 litre /min).	1	nos	16,263.00	16,263.00	16,288.00
	b. Jointing materials etc.		Ls		25.00	
Actual rate						21,688.00
15% contractor overhead						3,253.20
Total (Rs.)						24,941.20

Rate per set Rs.

24941.20

1149

10.0 Ltr Electric Water Heater (Geyser), (Aeroston, fazer or eqv.)

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	3	nos	1,200.00	3,600.00	5,400.00
	un skilled	2	nos	900.00	1,800.00	
materials	a. 10.0 Ltr electric water heater including copper pipe connector with coupling and other necessary fittings complete.	1	nos	11,578.00	11,578.00	11,603.00
	b. Jointing materials etc.		Ls		25.00	
Actual rate						17,003.00
15% contractor overhead						2,550.45
Total (Rs.)						19,553.45

Rate per set Rs.

19553.45

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1150

25.0 Ltr Electric Water Heater (Geyser), (Aeroston, fazer or eqv.)

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	3	nos	1,200.00	3,600.00	5,400.00
	un skilled	2	nos	900.00	1,800.00	
materials	a. 25.0 Ltr electric water heater including copper pipe connector with coupling and other necessary fittings complete.	1	nos	17,851.00	17,851.00	17,876.00
	b. Jointing material setc.		Ls		25.00	

Rate per set Rs.

26767.40

Actual rate	23,276.00
15% contractor overhead	3,491.40
Total (Rs.)	26,767.40

1151

35.0 Ltr Electric Water Heater (Geyser), (Aeroston, fazer or eqv.)

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	3	nos	1,200.00	3,600.00	6,300.00
	un skilled	3	nos	900.00	2,700.00	
materials	a.35.0 Ltr electric water heater including copper pipe connector with coupling and other necessary fittings complete.	1	nos	22,192.00	22,192.00	22,217.00
	b. Jointing material set.		Ls		25.00	

Rate per set Rs.

32794.55

Actual rate	28,517.00
15% contractor overhead	4,277.55
Total (Rs.)	32,794.55

1152

50.0 Ltr Electric Water Heater (Geyser), (Aeroston, fazer or eqv.)

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	3	nos	1,200.00	3,600.00	7,200.00
	un skilled	4	nos	900.00	3,600.00	
materials	a.50.0 Ltr electric water heater including copper pipe connector with coupling and other necessary fittings complete.	1	nos	26,535.00	26,535.00	26,560.00
	b. Jointing material set.		Ls		25.00	

Rate per set Rs.

38824.00

Actual rate	33,760.00
15% contractor overhead	5,064.00
Total (Rs.)	38,824.00

1153

Acrylic Bath tub 5"-6"x2"-6" with complete fittings (Duravit, Grohe, American Standard or Eqv.).

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	4	nos	1,200.00	4,800.00	6,600.00
	un skilled	2	nos	900.00	1,800.00	
materials	a. Fiber Bath tub 5"-6"x2"-6" with complete fittings.	1	nos	9,654.00	9,654.00	9,679.00
	b. Jointing material set.		Ls		25.00	

Rate per set Rs.

18720.85

Actual rate	16,279.00
15% contractor overhead	2,441.85
Total (Rs.)	18,720.85

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1154

C.P. Bath tub spout with Telephonic Shower.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost	
labour	skilled	1	nos	1,200.00	1,200.00	2,100.00	
	un skilled	1	nos	900.00	900.00		
materials	a. C.P.Bath tub spout(Hot and cold) with Telephonic shower.	1	nos	4,294.00	4,294.00	4,294.00	
Rate per set Rs.						Actual rate	6,394.00
						15% contractor overhead	959.10
10688.00						Total (Rs.)	7,353.10

1155

Stainless Steel Bath tub spout with Telephonic Shower.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost	
labour	skilled	1	nos	1,200.00	1,200.00	2,100.00	
	un skilled	1	nos	900.00	900.00		
materials	a. S.S.Bath tub spout(Hot and cold) with Telephonic shower.	1	nos	18,985.00	18,985.00	18,985.00	
Rate per set Rs.						Actual rate	21,085.00
						15% contractor overhead	3,162.75
24247.75						Total (Rs.)	24,247.75

1156

C.P. Wall Mixture with Telephonic Shower arrangement

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost	
labour	skilled	0.11	nos	1,200.00	132.00	132.00	
materials	a. 15mm CP Wall Mixture with Telephonic Shower arrangement	1	nos	7,054.00	7,054.00	7,054.00	
Rate per set Rs.						Actual rate	7,186.00
						15% contractor overhead	1,077.90
8263.90						Total (Rs.)	8,263.90

1157

Stainless Steel Wall Mixture (single control) Cock with Shower arrangement

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost	
labour	skilled	0.11	nos	1,200.00	132.00	132.00	
materials	a. 15mm S.S. Wall Mixture (single control) Cock with Shower arrangement	1	nos	16,431.00	16,431.00	16,431.00	
Rate per set Rs.						Actual rate	16,563.00
						15% contractor overhead	2,484.45
19047.45						Total (Rs.)	19,047.45

1158

Acrylic Shower Tray 3'0"x3'0" with complete fittings.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost	
labour	skilled	2	nos	1,200.00	2,400.00	4,200.00	
	un skilled	2	nos	900.00	1,800.00		
materials	a. Shower Tray 3'0"x3'0" with complete fittings.	1	nos	500.00	500.00	550.00	
	b. Jointing material set.	Ls			50.00		
Rate per set Rs.						Actual rate	4,750.00
						15% contractor overhead	712.50
5462.50						Total (Rs.)	5,462.50

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1159

Hand Dryer Germany with complete accessories (Grohe, Hansgrohe, American Standard or eqv.)

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost	
labour	skilled	0.11	nos	1,200.00	132.00	132.00	
materials	a) Hand Dryer (Germany or Eqv.) with complete accessories	1	nos	19,397.00	19,397.00	19,397.00	
Rate per set Rs.						Actual rate	19,529.00
						15% contractor overhead	2,929.35
22458.35						Total (Rs.)	22,458.35

1160

Hand Dryer Chinese with complete accessories

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost	
labour	skilled	0.11	nos	1,200.00	132.00	132.00	
materials	a) Hand Dryer (Chinese or Eqv.) with complete accessories	1	nos	7,379.00	7,379.00	7,379.00	
Rate per set Rs.						Actual rate	7,511.00
						15% contractor overhead	1,126.65
8637.65						Total (Rs.)	8,637.65

1161

CI Cover 18" X 18" (14 kg) Medium Duty

sources	Level	Qty	Unit	Rate/unit	cost	Total cost	
labour	skilled	0.33	nos	1,200.00	396.00	396.00	
materials	CI Cover 18" X 18" (14 kg) Medium Duty	1	nos	2,598.00	2,598.00	2,598.00	
Rate per set Rs.						Actual rate	2,994.00
						15% contractor overhead	449.10
3443.10						Total (Rs.)	3,443.10

1162

CI Cover 22" X 22" (20 kg) Medium Duty

sources	Level	Qty	Unit	Rate/unit	cost	Total cost	
labour	skilled	0.33	nos	1,200.00	396.00	396.00	
materials	CI Cover 22" X 22" (20 kg) Medium Duty	1	nos	3,353.00	3,353.00	3,353.00	
Rate per set Rs.						Actual rate	3,749.00
						15% contractor overhead	562.35
4311.35						Total (Rs.)	4,311.35

1163

CI Cover 22" X 22" (22 kg) Heavy Duty

sources	Level	Qty	Unit	Rate/unit	cost	Total cost	
labour	skilled	0.33	nos	1,200.00	396.00	396.00	
materials	CI Cover 22" X 22" (22 kg) Heavy Duty	1	nos	4,143.00	4,143.00	4,143.00	
Rate per set Rs.						Actual rate	4,539.00
						15% contractor overhead	680.85
5219.85						Total (Rs.)	5,219.85

1164

CI Tank Cover 24"Dia (16 kg) Round (Locking Type)

sources	Level	Qty	Unit	Rate/unit	cost	Total cost	
labour	skilled	0.33	nos	1,200.00	396.00	396.00	
materials	CI Tank Cover 24"Dia (16 kg) Round (Locking Type)	1	nos	3,549.00	3,549.00	3,549.00	
Rate per set Rs.						Actual rate	3,945.00
						15% contractor overhead	591.75
4536.75						Total (Rs.)	4,536.75

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1165

SMC Manhole Covers: Frame 580mm Cover :460mm- Square (5 Ton Capacity) frae 40mm thick cover 20mm thick all complete

sources	Level	Qty	Unit	Rate/unit	cost	Total cost
labour	skilled	0.33	nos	1,200.00	396.00	396.00
materials	SMC Manhole Covers: Frame 580mm Cover :460mm- Square (5 Ton Capacity) frae 40mm thick cover 20mm thick	1	nos	5,752.00	5,752.00	5,752.00

Rate per set Rs.

7070.20

Actual rate	6,148.00
15% contractor overhead	922.20
Total (Rs.)	7,070.20

1166

500 mm dia 100 kg CI Heavy Cover with frame all complete.

sources	Level	Qty	Unit	Rate/unit	cost	Total cost
labour	skilled	1.0	nos	1,200.00	1,200.00	3,900.00
	un skilled	3.0	nos	900.00	2,700.00	
materials	a.500 mm dia 100 kg CI Heavy Round Manhole Cover with frame.	1.0	sets	15,069.00	15,069.00	15,069.00

Rate per set Rs.

21814.35

Actual rate	18,969.00
15% contractor overhead	2,845.35
Total (Rs.)	21,814.35

1167

5 kg Fire extingusher ABC type Minimax, eversafe or equivalent

sources	Level	Qty	Unit	Rate/unit	cost	Total cost
labour	skilled	1.0	nos	1,200.00	1,200.00	1,200.00
materials	a.5 kg Fire extingusher ABC type Minimax, eversafe or equivalent	1.0	nos	7,130.00	7,130.00	7,130.00

Rate per no Rs.

9579.50

Actual rate	8,330.00
15% contractor overhead	1,249.50
Total (Rs.)	9,579.50

1168

Fire post with landing valve, hose reel or box with complete set

sources	Level	Qty	Unit	Rate/unit	cost	Total cost
labour	skilled	5	nos	1,200.00	6,000.00	7,800.00
	un skilled	2	nos	900.00	1,800.00	
materials	a. Landing valve ISI marked is : 5290, Hose box 18 gauge mild steel, 75x60x25cm (30"x24"x10") to accommodate two hose length of 15 meters each and one branch pipes with locking arrangement, 2 lengths Javashree RRI hose (ISI is : 636 in 15 meter length with male and female coupling dully binded with wires, Branch pipe short GM.)(minimax)	1	sets	27,214.00	27,214.00	27,214.00

Rate per set Rs.

31296.10

Actual rate	27,214.00
15% contractor overhead	4,082.10
Total (Rs.)	31,296.10

1169

Fire Pump 20 HP Electric Motor Pump-2 set with control pannel, pressure gauge and acessories (kiloskar or eqv.)

sources	Level	Qty	Unit	Rate/unit	cost	Total cost
labour	skilled	6	nos	1,200.00	7,200.00	10,800.00
	un skilled	4	nos	900.00	3,600.00	
materials	a. Fire pump 20 HP two pump set with panel board, pressure gauge and acessories kiloskar or eqv	1	sets	550,000.00	550,000.00	550,000.00

Rate per set Rs.

644920.00

Actual rate	560,800.00
15% contractor overhead	84,120.00
Total (Rs.)	644,920.00

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1170

20 mm dia Fire hose reel complete set

sources	Level	Qty	Unit	Rate/unit	cost	Total cost
labour	skilled	4	nos	1,200.00	4,800.00	6,600.00
	un skilled	2	nos	900.00	1,800.00	
materials	a. Swinging hose reel with 20 mm hydraulic rubber braided hose 30 mt. Long, swinging up to 170° nozzle, U shape reel carriel, dimension 31½" heighth over all 29" projection from wall (minimax)	1	sets	19,750.00	19,750.00	19,750.00

Rate per set Rs.

30302.50

Actual rate	26,350.00
15% contractor overhead	3,952.50
Total (Rs.)	30,302.50

1171

G.I. Flange 80 mm dia.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	GI Flange 80 mm dia.	1	nos	1,892.00	1,892.00	1,892.00

Rate per nos Rs.

2327.60

Actual rate	2,024.00
15% contractor overhead	303.60
Total (Rs.)	2,327.60

1172

G.I. Flange 100 mm dia.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	GI Flange 100 mm dia.	1	nos	2,348.00	2,348.00	2,348.00

Rate per nos Rs.

2852.00

Actual rate	2,480.00
15% contractor overhead	372.00
Total (Rs.)	2,852.00

1173

50mm dia. HDP Pipe (4 Kg/cm2)

sources	Level	Qty	Unit	Rate/unit	cost	Total cost
labour	skilled	0.17	nos	1,200.00	204.00	384.00
	un skilled	0.20	nos	900.00	180.00	
materials	a.50mm dia. HDP Pipe (4 Kg/cm2)	1	RM	81.00	81.00	81.00

Rate per Rm Rs.

534.75

Actual rate	465.00
15% contractor overhead	69.75
Total (Rs.)	534.75

1174

110mm dia. HDP Pipe (4 Kg/cm2)

sources	Level	Qty	Unit	Rate/unit	cost	Total cost
labour	skilled	0.17	nos	1,200.00	204.00	384.00
	un skilled	0.20	nos	900.00	180.00	
materials	a.110mm dia. HDP Pipe (4 Kg/cm2)	1	RM	364.00	364.00	364.00

Rate per Rm Rs.

860.20

Actual rate	748.00
15% contractor overhead	112.20
Total (Rs.)	860.20

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1175

125mm dia. HDP Pipe (4 Kg/cm2)

sources	Level	Qty	Unit	Rate/unit	cost	Total cost
labour	skilled	0.17	nos	1,200.00	204.00	384.00
	un skilled	0.20	nos	900.00	180.00	
materials	a.125mm dia. HDP Pipe (4 Kg/cm2)	1	RM	490.00	490.00	490.00

Rate per Rm Rs.

	Actual rate	874.00
	15% contractor overhead	131.10
1005.10	Total (Rs.)	1,005.10

1176

140mm dia. HDP Pipe (4 Kg/cm2)

sources	Level	Qty	Unit	Rate/unit	cost	Total cost
labour	skilled	0.20	nos	1,200.00	240.00	465.00
	un skilled	0.25	nos	900.00	225.00	
materials	a.140mm dia. HDP Pipe (4 Kg/cm2)	1	RM	621.00	621.00	621.00

Rate per Rm Rs.

	Actual rate	1,086.00
	15% contractor overhead	162.90
1248.90	Total (Rs.)	1,248.90

1177

160mm dia. HDP Pipe (4 Kg/cm2)

sources	Level	Qty	Unit	Rate/unit	cost	Total cost
labour	skilled	0.25	nos	1,200.00	300.00	597.00
	un skilled	0.33	nos	900.00	297.00	
materials	a.160mm dia.HDP Pipe (4 Kg/cm2)	1.0	RM	807.00	807.00	807.00

Rate per Rm Rs.

	Actual rate	1,404.00
	15% contractor overhead	210.60
1614.60	Total (Rs.)	1,614.60

1178

180mm dia. HDP Pipe (4 Kg/cm2)

sources	Level	Qty	Unit	Rate/unit	cost	Total cost
labour	skilled	0.33	nos	1,200.00	396.00	846.00
	un skilled	0.50	nos	900.00	450.00	
materials	a.180mm dia. HDP Pipe (4 Kg/cm2)	1.0	RM	1,019.00	1,019.00	1,019.00

Rate per Rm Rs.

	Actual rate	1,865.00
	15% contractor overhead	279.75
2144.75	Total (Rs.)	2,144.75

1179

200mm dia. HDP Pipe (4 Kg/cm2)

sources	Level	Qty	Unit	Rate/unit	cost	Total cost
labour	skilled	0.50	nos	1,200.00	600.00	1,050.00
	un skilled	0.50	nos	900.00	450.00	
materials	a.200mm dia. HDP Pipe (4 Kg/cm2)	1.0	RM	1,260.00	1,260.00	1,260.00

Rate per Rm Rs.

	Actual rate	2,310.00
	15% contractor overhead	346.50
2656.50	Total (Rs.)	2,656.50

1180

15mm dia Insulation for hot water pipe (Aeroflex, superloan or eqv.), 6 mm wall thickness

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	15mm dia insulation aeroflex for hot water pipe	1	rm	114.00	114.00	114.00

Rate per Rm Rs.

	Actual rate	246.00
	15% contractor overhead	36.90
282.90	Total (Rs.)	282.90

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1181

25 mm dia Insulation for hot water pipe (Aeroflex, superloan or eqv.), 6 mm wall thickness

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost	
labour	skilled	0.11	nos	1,200.00	132.00	132.00	
materials	25 mm dia insulation aeroflex for hot water pipe	1	rm	214.00	214.00	214.00	
Rate per Rm Rs.						Actual rate	346.00
						15% contractor overhead	51.90
397.90						Total (Rs.)	397.90

1182

32 mm dia Insulation for hot water pipe (Aeroflex, superloan or eqv.), 6 mm wall thickness

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost	
labour	skilled	0.11	nos	1,200.00	132.00	132.00	
materials	32 mm dia insulation aeroflex for hot water pipe	1	rm	371.00	371.00	371.00	
Rate per Rm Rs.						Actual rate	503.00
						15% contractor overhead	75.45
578.45						Total (Rs.)	578.45

1183

15 mm CPVC (Chlorinated Polyvinyl Chloride) Pipe SDR 11 CTS, 28.1 kg/cm2 (Flowguard or ISI Standard)

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost	
labour	skilled	0.01	nos	1,200.00	12.00	21.00	
	un skilled	0.01	nos	900.00	9.00		
materials	a. 15 mm CPVC Pipe SDR 11 CTS, 28.1 kg/cm2	1	Rm	137.00	137.00	267.00	
	b. Cpvc fittings	Ls			100.00		
	c. Jointing materials (flow guard adesive soln)	Ls			30.00		
Rate per Rm Rs.						Actual rate	288.00
						15% contractor overhead	43.20
331.20						Total (Rs.)	331.20

1184

20 mm CPVC (Chlorinated Polyvinyl Chloride) Pipe SDR 11 CTS, 28.1 kg/cm2 (Flowguard or ISI Standard)

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost	
labour	skilled	0.01	nos	1,200.00	12.00	21.00	
	un skilled	0.01	nos	900.00	9.00		
materials	a. 20 mm CPVC Pipe SDR 11 CTS, 28.1 kg/cm2	1	Rm	183.00	183.00	313.00	
	b. Cpvc fittings	Ls			100.00		
	c. Jointing materials (flow guard adesive soln)	Ls			30.00		
Rate per Rm Rs.						Actual rate	334.00
						15% contractor overhead	50.10
384.10						Total (Rs.)	384.10

1185

25 mm CPVC (Chlorinated Polyvinyl Chloride) Pipe SDR 11 CTS, 28.1 kg/cm2 (Flowguard or ISI Standard)

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost	
labour	skilled	0.011	nos	1,200.00	13.20	30.30	
	un skilled	0.019	nos	900.00	17.10		
materials	a. 25 mm CPVC Pipe SDR 11 CTS, 28.1 kg/cm2	1	Rm	256.00	256.00	406.00	
	b. Cpvc fittings	Ls			120.00		
	c. Jointing materials (flow guard adesive soln)	Ls			30.00		
Rate per Rm Rs.						Actual rate	436.30
						15% contractor overhead	65.45
501.75						Total (Rs.)	501.75

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1186

32 mm CPVC (Chlorinated Polyvinyl Chloride) Pipe SDR 11 CTS, 28.1 kg/cm² (Flowguard or ISI Standard)

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.011	nos	1,200.00	13.20	30.30
	un skilled	0.019	nos	900.00	17.10	
materials	a. 32 mm CPVC Pipe SDR 11 CTS, 28.1 kg/cm ²	1	Rm	309.00	309.00	459.00
	b. Cpvc fittings	Ls			120.00	
	c. Jointing materials (flow guard adesive soln)	Ls			30.00	

Rate per Rm Rs.

562.70

Actual rate	489.30
15% contractor overhead	73.40
Total (Rs.)	562.70

1187

40 mm CPVC (Chlorinated Polyvinyl Chloride) Pipe SDR 11 CTS, 28.1 kg/cm² (Flowguard or ISI Standard)

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.011	nos	1,200.00	13.20	30.30
	un skilled	0.019	nos	900.00	17.10	
materials	a. 40 mm CPVC Pipe SDR 11 CTS, 28.1 kg/cm ²	1	Rm	430.00	430.00	630.00
	b. Cpvc fittings	Ls			150.00	
	c. Jointing materials (flow guard adesive soln)	Ls			50.00	

Rate per Rm Rs.

759.35

Actual rate	660.30
15% contractor overhead	99.05
Total (Rs.)	759.35

1188

50 mm CPVC (Chlorinated Polyvinyl Chloride) Pipe SDR 11 CTS, 28.1 kg/cm² (Flowguard or ISI Standard)

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.011	nos	1,200.00	13.20	30.30
	un skilled	0.019	nos	900.00	17.10	
materials	a. 50 mm CPVC Pipe SDR 11 CTS, 28.1 kg/cm ²	1	Rm	698.00	698.00	923.00
	b. Cpvc fittings	Ls			175.00	
	c. Jointing materials (flow guard adesive soln)	Ls			50.00	

Rate per Rm Rs.

1096.30

Actual rate	953.30
15% contractor overhead	143.00
Total (Rs.)	1,096.30

1189

15 mm CPVC Ball Valve, CTS sockets

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	508.00
materials	a. 15 mm CPVC ball valve, CTS sockets,	1	set	376.00	376.00	

Rate per no Rs.

584.20

Actual rate	508.00
15% contractor overhead	76.20
Total (Rs.)	584.20

1190

20 mm CPVC Ball Valve, CTS sockets

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	633.00
materials	a. 20 mm CPVC ball valve, CTS sockets,	1	set	501.00	501.00	

Rate per no Rs.

727.95

Actual rate	633.00
15% contractor overhead	94.95
Total (Rs.)	727.95

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1191

25 mm CPVC Ball Valve, CTS sockets

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	
materials	a. 25 mm CPVC ball valve, CTS sockets,	1	set	605.00	605.00	737.00
Rate per no Rs.						737.00
						Actual rate
847.55						15% contractor overhead
						Total (Rs.)
						847.55

1192

32 mm CPVC Ball Valve, CTS sockets

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	
materials	a. 32 mm CPVC ball valve, CTS sockets,	1	set	1,412.00	1,412.00	1,544.00
Rate per no Rs.						1,544.00
						Actual rate
1775.60						15% contractor overhead
						Total (Rs.)
						1,775.60

1193

40 mm CPVC Ball Valve, CTS socket

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	
materials	a. 40 mm CPVC ball valve, CTS sockets,	1	set	1,692.00	1,692.00	1,824.00
Rate per no Rs.						1,824.00
						Actual rate
2097.60						15% contractor overhead
						Total (Rs.)
						2,097.60

1194

50 mm CPVC Ball Valve, CTS sockets

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	
materials	a. 50 mm CPVC ball valve, CTS sockets,	1	set	2,181.00	2,181.00	2,313.00
Rate per no Rs.						2,313.00
						Actual rate
2659.95						15% contractor overhead
						Total (Rs.)
						2,659.95

1195

Multilayer composite PEX/AL/PEX Pipe-16mm

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.01	nos	1,200.00	12.00	
	un skilled	0.01	nos	900.00	9.00	21.00
materials	a.16 mm multilayer composite PAP Pipe, sangahi or eqv	1	Rm	104.00	104.00	
	b. Brass fittings	Ls			50.00	
	c. Jointing materials	Ls			25.00	179.00
Rate per Rm Rs.						200.00
						Actual rate
230.00						15% contractor overhead
						Total (Rs.)
						230.00

1196

Multilayer composite PEX/AL/PEX Pipe-20mm

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.01	nos	1,200.00	12.00	
	un skilled	0.01	nos	900.00	9.00	21.00
materials	a.20 mm multilayer composite PAP Pipe	1	Rm	122.00	122.00	
	b. Brass fittings	Ls			50.00	
	c. Jointing materials	Ls			25.00	197.00
Rate per Rm Rs.						218.00
						Actual rate
						15% contractor overhead
						Total (Rs.)
						218.00

Sanitary Rate Analysis 2080/81 for Bhaktapur District

250.70

Total (Rs.)	250.70
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1197

Multilayer composite PEX/AL/PEX Pipe-25mm

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.011	nos	1,200.00	13.20	30.30
	un skilled	0.019	nos	900.00	17.10	
materials	a.25 mm multilayer composite PAP Pipe	1	Rm	186.00	186.00	286.00
	b. Brass fittings	Ls			75.00	
	c. Jointing materials	Ls			25.00	

Rate per Rm Rs.

363.75

Actual rate	316.30
15% contractor overhead	47.45
Total (Rs.)	363.75

1198

Multilayer composite PEX/AL/PEX Pipe-32mm

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.011	nos	1,200.00	13.20	30.30
	un skilled	0.019	nos	900.00	17.10	
materials	a.32 mm multilayer composite PAP Pipe,	1	Rm	290.00	290.00	390.00
	b. Brass fittings	Ls			75.00	
	c. Jointing materials	Ls			25.00	

Rate per Rm Rs.

483.35

Actual rate	420.30
15% contractor overhead	63.05
Total (Rs.)	483.35

1199

Multilayer composite PEX/AL/PEX Pipe-40 mm

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.011	nos	1,200.00	13.20	30.30
	un skilled	0.019	nos	900.00	17.10	
materials	a.40 mm multilayer composite PAP Pipe,	1	Rm	459.00	459.00	584.00
	b. Brass fittings	Ls			100.00	
	c. Jointing materials	Ls			25.00	

Rate per Rm Rs.

706.45

Actual rate	614.30
15% contractor overhead	92.15
Total (Rs.)	706.45

1200

Multilayer composite PEX/AL/PEX Pipe-50 mm

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.011	nos	1,200.00	13.20	30.30
	un skilled	0.019	nos	900.00	17.10	
materials	a.50 mm multilayer composite PAP Pipe,	1	Rm	673.00	673.00	823.00
	b. Brass fittings	Ls			125.00	
	c. Jointing materials	Ls			25.00	

Rate per Rm Rs.

981.30

Actual rate	853.30
15% contractor overhead	128.00
Total (Rs.)	981.30

1201

20mm PPR (Poly Propylene Random Co-polymer) Pipe, PN-10, Pachakanya, Nepatop or Eqv.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.01	nos	1,200.00	12.00	21.00
	un skilled	0.01	nos	900.00	9.00	
materials	a.20 mm PP-R Pipe,(PN-10,SDR 11), napatop or eqv	1	Rm	49.00	49.00	74.00
	b. PPR fittings	Ls			25.00	

Rate per Rm Rs.

109.25

Actual rate	95.00
15% contractor overhead	14.25
Total (Rs.)	109.25

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1202

25mm PPR (Poly Propylene Random Co-polymer) Pipe, PN-10, Pachakanya, Nepatop or Eqv.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.011	nos	1,200.00	13.20	30.30
	un skilled	0.019	nos	900.00	17.10	
materials	a.25 mm PP-R Pipe,(PN-10,SDR 11) napatop or eqv	1	Rm	75.00	75.00	100.00
	b. PPR fittings	Ls			25.00	

Rate per Rm Rs.

149.85

Actual rate	130.30
15% contractor overhead	19.55
Total (Rs.)	149.85

1203

32mm PPR (Poly Propylene Random Co-polymer) Pipe, PN-10, Pachakanya, Nepatop or Eqv.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.011	nos	1,200.00	13.20	30.30
	un skilled	0.019	nos	900.00	17.10	
materials	a.32 mm PP-R Pipe,(PN-10,SDR 11), napatop or eqv	1	Rm	119.00	119.00	144.00
	b. PPR fittings	Ls			25.00	

Rate per Rm Rs.

200.45

Actual rate	174.30
15% contractor overhead	26.15
Total (Rs.)	200.45

1204

40mm PPR (Poly Propylene Random Co-polymer) Pipe, PN-10, Pachakanya, Nepatop or Eqv.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.011	nos	1,200.00	13.20	30.30
	un skilled	0.019	nos	900.00	17.10	
materials	a.40 mm PP-R Pipe,(PN-10,SDR 11)napatop or eqv	1	Rm	189.00	189.00	239.00
	b. PPR fittings	Ls			50.00	

Rate per Rm Rs.

309.70

Actual rate	269.30
15% contractor overhead	40.40
Total (Rs.)	309.70

1205

50mm PPR (Poly Propylene Random Co-polymer) Pipe, PN-10, Pachakanya, Nepatop or Eqv.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.011	nos	1,200.00	13.20	30.30
	un skilled	0.019	nos	900.00	17.10	
materials	a. 50 mm PP-R Pipe,(PN-10,SDR 11),napatop or eqv	1	Rm	293.00	293.00	343.00
	b. PPR fittings	Ls			50.00	

Rate per Rm Rs.

429.30

Actual rate	373.30
15% contractor overhead	56.00
Total (Rs.)	429.30

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1206

150 mm RCC hump pipe NP2 with collar

b/ lj Zn]fOs fj nfu #@ld=lnQs fj

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost	
labour	skilled	3	nos	1,200.00	3,600.00	17,100.00	
	un skilled	15	nos	900.00	13,500.00		
materials	a.150 mm RCC hump pipe NP2	32	Rm	596.00	19,072.00	22,041.06	
	b.150 mm RCC collar	13	nos	165.00	2,145.00		
	c. cement	0.035	mt	16,820.00	588.70		
	d. sand	0.05	cum	3,107.28	155.36		
	e. Jute	1.6	kg	50.00	80.00		
Rate per Rm Rs.						Actual rate	39,141.06
1406.63						15% contractor overhead	5,871.16
						Total (Rs.)	45,012.22

1207

200 mm RCC hump pipe NP2 with collar

b/ lj Zn]fOs fj nfu #@ld=lnQs fj

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost	
labour	skilled	4	nos	1,200.00	4,800.00	22,800.00	
	un skilled	20	nos	900.00	18,000.00		
materials	a.200 mm RCC hump pipe NP2	32	Rm	785.00	25,120.00	28,898.22	
	b.200 mm RCC collar	13	nos	195.00	2,535.00		
	c. cement	0.052	mt	16,820.00	874.64		
	d. sand	0.08	cum	3,107.28	248.58		
	e. Jute	2.4	kg	50.00	120.00		
Rate per Rm Rs.						Actual rate	51,698.22
1857.90						15% contractor overhead	7,734.73
						Total (Rs.)	59,452.96

1208

300 mm RCC hump pipe NP2 with collar

b/ lj Zn]fOs fj nfu #@ld=lnQs fj

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost	
labour	skilled	6	nos	1,200.00	7,200.00	27,000.00	
	un skilled	22	nos	900.00	19,800.00		
materials	a.300 mm RCC hump pipe NP2	32	Rm	1,330.00	42,560.00	48,857.51	
	b.300 mm RCC collar	13	nos	332.00	4,316.00		
	c. cement	0.083	mt	16,820.00	1,396.06		
	d. sand	0.13	cum	3,107.28	403.95		
	e. Jute	3.63	kg	50.00	181.50		
Rate per Rm Rs.						Actual rate	75,857.51
2726.13						15% contractor overhead	11,376.63
						Total (Rs.)	87,236.13

1209

400 mm RCC hump pipe NP2 with collar

b/ lj Zn]fOs fj nfu #@ld=lnQs fj

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost	
labour	skilled	6	nos	1,200.00	7,200.00	27,000.00	
	un skilled	22	nos	900.00	19,800.00		
materials	a.400 mm RCC hump pipe NP2	32	Rm	1,852.00	59,264.00	67,264.51	
	b.400 mm RCC collar	13	nos	463.00	6,019.00		
	c. cement	0.083	mt	16,820.00	1,396.06		
	d. sand	0.13	cum	3,107.28	403.95		
	e. Jute	3.63	kg	50.00	181.50		
Rate per Rm Rs.						Actual rate	94,264.51
3387.63						15% contractor overhead	14,139.68
						Total (Rs.)	108,404.18

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1210

600 mm RCC hump pipe NP2 with collar

b/ lj Zn]fOs fj nflu #@ld=lnQs fj

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost	
labour	skilled	9	nos	1,200.00	10,800.00	42,300.00	
	un skilled	35	nos	900.00	31,500.00		
materials	a.600 mm RCC hump pipe NP2	32	Rm	3,077.00	98,464.00	113,409.94	
	b.600 mm RCC collar	13	nos	769.00	9,997.00		
	c. cement	0.218	mt	16,820.00	3,666.76		
	d. sand	0.3	cum	3,107.28	932.18		
	e. Jute	7	kg	50.00	350.00		
Rate per Rm Rs.						Actual rate	155,709.94
						15% contractor overhead	23,356.49
5595.83						Total (Rs.)	179,066.44

1211

150 mm RCC hump pipe NP3

b/ lj Zn]fOs fj nflu #@ld=lnQs fj

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost	
labour	skilled	3	nos	1,200.00	3,600.00	17,100.00	
	un skilled	15	nos	900.00	13,500.00		
materials	a.150 mm RCC hump pipe NP3	32	Rm	1,310.00	41,920.00	42,744.06	
	b. cement	0.035	mt	16,820.00	588.70		
	c. sand	0.05	cum	3,107.28	155.36		
	d. Jute	1.6	kg	50.00	80.00		
Rate per Rm Rs.						Actual rate	59,844.06
						15% contractor overhead	8,976.61
2150.65						Total (Rs.)	68,820.67

1212

200 mm RCC hump pipe NP3

b/ lj Zn]fOs fj nflu #@ld=lnQs fj

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost	
labour	skilled	4	nos	1,200.00	4,800.00	22,800.00	
	un skilled	20	nos	900.00	18,000.00		
materials	a.200 mm RCC hump pipe NP3	32	Rm	1,745.00	55,840.00	57,083.22	
	b. cement	0.052	mt	16,820.00	874.64		
	c. sand	0.08	cum	3,107.28	248.58		
	d. Jute	2.4	kg	50.00	120.00		
Rate per Rm Rs.						Actual rate	79,883.22
						15% contractor overhead	11,982.48
2870.80						Total (Rs.)	91,865.71

1213

300 mm RCC hump pipe NP3

b/ lj Zn]fOs fj nflu #@ld=lnQs fj

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost	
labour	skilled	6	nos	1,200.00	7,200.00	27,000.00	
	un skilled	22	nos	900.00	19,800.00		
materials	a.300 mm RCC hump pipe NP3	32	Rm	3,140.00	100,480.00	102,461.51	
	b. cement	0.083	mt	16,820.00	1,396.06		
	c. sand	0.13	cum	3,107.28	403.95		
	d. Jute	3.63	kg	50.00	181.50		
Rate per Rm Rs.						Actual rate	129,461.51
						15% contractor overhead	19,419.23
4652.52						Total (Rs.)	148,880.73

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1214

400 mm RCC hump pipe NP3

b/ l j Zn]fOs f]nflu # @ld=lnOpsf]

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	6	nos	1,200.00	7,200.00	27,000.00
	un skilled	22	nos	900.00	19,800.00	
materials	a.400 mm RCC hump pipe NP3	32	Rm	4,010.00	128,320.00	130,301.51
	b. cement	0.083	mt	16,820.00	1,396.06	
	c. sand	0.13	cum	3,107.28	403.95	
	d. Jute	3.63	kg	50.00	181.50	
Rate per Rm Rs.		Actual rate				157,301.51
		15% contractor overhead				23,595.23
		Total (Rs.)				180,896.73

5653.02

1215

600 mm RCC hump pipe NP3

b/ l j Zn]fOs f]nflu # @ld=lnOpsf]

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	9	nos	1,200.00	10,800.00	42,300.00
	un skilled	35	nos	900.00	31,500.00	
materials	a.600 mm RCC hump pipe NP3	32	Rm	6,200.00	198,400.00	203,348.94
	b. cement	0.218	mt	16,820.00	3,666.76	
	c. sand	0.3	cum	3,107.28	932.18	
	d. Jute	7	kg	50.00	350.00	
Rate per Rm Rs.		Actual rate				245,648.94
		15% contractor overhead				36,847.34
		Total (Rs.)				282,496.29

8828.01

1216

140 mm Plastic Gutter Water Pipe (Half Round)

b/ l j Zn]fOs f]nflu #) ld=lnOpsf]

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	6	nos	1,200.00	7,200.00	15,300.00
	un skilled	9	nos	900.00	8,100.00	
materials	a. 140 mm Plastic water pipe (Half round Gutter)	30	Rm	164.00	4,920.00	14,943.00
	b. Joint Bracket	8	nos	264.00	2,112.00	
	c. Short Stop End	1	nos	98.00	98.00	
	d. Stop End Outlet	1	nos	314.00	314.00	
	e. Running Outlet	2	nos	362.00	724.00	
	f. Elbow 90 Degree (with or w/o outlet)	1	nos	445.00	445.00	
	g. Support Bracket	30	nos	79.00	2,370.00	
	h. Rafter Bracket	30	nos	80.00	2,400.00	
	i. Top Bracket	30	nos	52.00	1,560.00	
Rate per Rm Rs.		Actual rate				30,243.00
		15% contractor overhead				4,536.45
		Total (Rs.)				34,779.45

1159.32

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1217

180 mm Plastic Gutter Water Pipe (Half Round)

b/ l/ j/ Z/ n/ f/ O/ s/ f/ n/ f/ u/ #/ l/ d= l/ n/ O/ P/ s/ f/

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	6	nos	1,200.00	7,200.00	15,300.00
	un skilled	9	nos	900.00	8,100.00	
materials	a. 180 mm Plastic water pipe (Half round Gutter) 3mtrs	10	nos	311.00	3,110.00	17,868.00
	b. Joint Bracket	8	nos	369.00	2,952.00	
	c. Short Stop End	1	nos	145.00	145.00	
	d. Stop End Outlet	1	nos	437.00	437.00	
	e. Running Outlet	2	nos	533.00	1,066.00	
	f. Elbow 90 Degree (with or w/o outlet)	1	nos	618.00	618.00	
	g. Support Bracket	30	nos	111.00	3,330.00	
	h. Rafter Bracket	30	nos	113.00	3,390.00	
	i. Top Bracket	30	nos	94.00	2,820.00	

Rate per Rm Rs.

1271.44

Actual rate	33,168.00
15% contractor overhead	4,975.20
Total (Rs.)	38,143.20

1218

250 mm Plastic Gutter Water Pipe (Half Round)

b/ l/ j/ Z/ n/ f/ O/ s/ f/ n/ f/ u/ #/ l/ d= l/ n/ O/ P/ s/ f/

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	6	nos	1,200.00	7,200.00	15,300.00
	un skilled	9	nos	900.00	8,100.00	
materials	a. 250 mm Plastic water pipe (Half round Gutter) 3mtrs	10	Nos	603.00	6,030.00	39,790.00
	b. Joint Bracket	8	nos	632.00	5,056.00	
	c. Short Stop End	1	nos	311.00	311.00	
	d. Stop End Outlet	1	nos	826.00	826.00	
	e. Running Outlet	2	nos	994.00	1,988.00	
	f. Elbow 90 Degree (with or w/o outlet)	1	nos	1,429.00	1,429.00	
	g. Support Bracket	30	nos	309.00	9,270.00	
	h. Rafter Bracket	30	nos	327.00	9,810.00	
	i. Top Bracket	30	nos	169.00	5,070.00	

Rate per Rm Rs.

2111.78

Actual rate	55,090.00
15% contractor overhead	8,263.50
Total (Rs.)	63,353.50

1270

Kitchen Sink Stainless Steel 37" long 8" deep with sink mixture all complete set.

sources	Level	Qty	Unit	Rate/unit	cost	Total cost
labour	skilled	2	nos	1,200.00	2,400.00	3,300.00
	un skilled	1	nos	900.00	900.00	
materials	a. Stainless steel sink Bowl with ordinary drain board 37" long and 8" deep size.	1	sets	2,383.00	2,383.00	7,407.00
	b. 32 mm pvc bottle trap including 32mm CP waste coupling with CP chain and rubber plug etc.	1	nos	490.00	490.00	
	c. 15mm cp sink mixture	1	nos	4,200.00	4,200.00	
	d. 1.5x45cm (½"x18") pipe connector	2	nos	147.00	294.00	
	e. Zink Oxide screw etc.	LS			40.00	

Rate per set Rs.

12313.05

Actual rate	10,707.00
15% contractor overhead	1,606.05
Total (Rs.)	12,313.05

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1271

Stainless Steel Sink 45cmX 45cm X 30cm deep with sink mixture all complete set.

sources	Level	Qty	Unit	Rate/unit	cost	Total cost	
labour	skilled	2	nos	1,200.00	2,400.00	3,300.00	
	un skilled	1	nos	900.00	900.00		
materials	a. Stainless steel sink 45cmX 45cm X 30cm deep.	1	sets	18,731.00	18,731.00	23,755.00	
	b. 32 mm pvc bottle trap including 32mm CP waste coupling with CP chain and rubber plug etc.	1	nos	490.00	490.00		
	c. 15mm cp sink mixture	1	nos	4,200.00	4,200.00		
	d. 1.5x45cm (½"x18") pipe connector	2	nos	147.00	294.00		
	e. Zink Oxide screw etc.	LS			40.00		
Rate per set Rs.						Actual rate	27,055.00
						15% contractor overhead	4,058.25
31113.25						Total (Rs.)	31,113.25

1272

Stainless Steel Sink 45cmX 45cm X 30cm deep with sink mixture all complete set.

sources	Level	Qty	Unit	Rate/unit	cost	Total cost	
labour	skilled	2	nos	1,200.00	2,400.00	3,300.00	
	un skilled	1	nos	900.00	900.00		
materials	a. Stainless steel sink 45cmX 45cm X 30cm deep.	1	sets	18,731.00	18,731.00	20,756.00	
	b. 32 mm pvc bottle trap including 32mm CP waste coupling with CP chain and rubber plug etc.	1	nos	490.00	490.00		
	c. 15mm cp sink cock	1	nos	1,348.00	1,348.00		
	d. 1.5x45cm (½"x18") pipe connector	1	nos	147.00	147.00		
	e. Zink Oxide screw etc.	LS			40.00		
Rate per set Rs.						Actual rate	24,056.00
						15% contractor overhead	3,608.40
27664.40						Total (Rs.)	27,664.40

1273

Stainless steel double Bowl sink, 114.5cm X 51cm X 25.5cm with sink mixture all complete set.

sources	Level	Qty	Unit	Rate/unit	cost	Total cost	
labour	skilled	3	nos	1,200.00	3,600.00	5,400.00	
	un skilled	2	nos	900.00	1,800.00		
materials	a. Stainless steel double bowl sink, 114.5cm X 51cm X 25.5cm	1	sets	38,530.00	38,530.00	43,960.00	
	b. 32 mm pvc bottle trap including 32mm CP waste coupling with CP chain and rubber plug etc.	1	nos	490.00	490.00		
	c. 15mm cp sink mixture	1	nos	4,606.00	4,606.00		
	d. 1.5x45cm (½"x18") pipe connector	2	nos	147.00	294.00		
	e. Zink Oxide screw etc.	LS			40.00		
Rate per Set Rs.						Actual rate	49,360.00
						15% contractor overhead	7,404.00
56764.00						Total (Rs.)	56,764.00

1274

Stainless steel sink, 55cm X 40cm X 22cm with sink mixture all complete set.

sources	Level	Qty	Unit	Rate/unit	cost	Total cost	
labour	skilled	2	nos	1,200.00	2,400.00	3,300.00	
	un skilled	1	nos	900.00	900.00		
materials	a. Stainless steel sink 55cm X 40cm X 22cm	1	sets	10,695.00	10,695.00	15,719.00	
	b. 32 mm pvc bottle trap including 32mm CP waste coupling with CP chain and rubber plug etc.	1	nos	490.00	490.00		
	c. 15mm cp sink mixture	1	nos	4,200.00	4,200.00		
	d. 1.5x45cm (½"x18") pipe connector	2	nos	147.00	294.00		
	e. Zink Oxide screw etc.	LS			40.00		
Rate per Set Rs.						Actual rate	19,019.00
						15% contractor overhead	2,852.85
21871.85						Total (Rs.)	21,871.85

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1275

(50x40)cm Porcelain clay white glaze Oval Wash basin with swan type pillar cock complete set.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	2	nos	1,200.00	2,400.00	4,200.00
	un skilled	2	nos	900.00	1,800.00	
materials	a. 50x40cm Porcelain clay white glaze Oval Wash basin	1	nos	1,525.00	1,525.00	3,573.00
	b. 32 mm pvc bottle trap including 32mm CP waste coupling with CP chain and rubber plug etc.	1	nos	490.00	490.00	
	c. 15 mm CP basin swan type pillar cock	1	nos	1,371.00	1,371.00	
	d. 1.5x45Cm (1/2"x18") pipe connector	1	nos	147.00	147.00	
	e. screw etc	Ls			40.00	
Actual rate						7,773.00
15% contractor overhead						1,165.95
Total (Rs.)						8,938.95

Rate per set Rs.

8938.95

1276

(41x35)cm Porcelain clay white glaze Wash basin with pedestal and mixture complete set.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	2	nos	1,200.00	2,400.00	4,200.00
	un skilled	2	nos	900.00	1,800.00	
materials	a. 50x40cm Porcelain clay white glaze Wash basin regular	1	nos	1,720.00	1,720.00	8,742.00
	b. 32 mm pvc bottle trap including 32mm CP waste coupling with CP chain and rubber plug etc.	1	nos	490.00	490.00	
	c. 15 mm CP basin mixer	1	nos	4,779.00	4,779.00	
	d. 1.5x45Cm (1/2"x18") pipe connector	2	nos	147.00	294.00	
	e. Porcelain clay white glazed pedestal	1	nos	1,419.00	1,419.00	
	f. screw etc	Ls			40.00	
Actual rate						12,942.00
15% contractor overhead						1,941.30
Total (Rs.)						14,883.30

Rate per set Rs.

14883.30

1277

(41x35)cm Porcelain clay white glaze Wash basin , Swan type pillar cock with pedestal complete set.

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	2	nos	1,200.00	2,400.00	4,200.00
	un skilled	2	nos	900.00	1,800.00	
materials	a) 41x35cm Porcelain clay white glaze Wash basin (Hindware, Parryware, cera or equivalent) Regular	1	nos	1,720.00	1,720.00	5,016.00
	b. Porcelain clay white glazed pedestal	1	set	1,419.00	1,419.00	
	c. 32 mm pvc bottle trap including 32mm CP waste coupling with CP chain and rubber plug etc.	1	nos	490.00	490.00	
	d. 15mm swan neck type cp pillar cock	1	nos	1,200.00	1,200.00	
	e. 1.5x45cm (1/2"x18") pipe connector	1	nos	147.00	147.00	
	f. screw etc	Ls			40.00	
Actual rate						9,216.00
15% contractor overhead						1,382.40
Total (Rs.)						10,598.40

Rate per set Rs.

10598.40

Sanitary Rate Analysis 2080/81 for Bhaktapur District

1278

S.S.Robe Hook

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	a.S.S.Robe Hook	1	nos	836.00	836.00	876.00
	b.Zink oxide screw etc.	Ls			40.00	
Rate per nos Rs.		Actual rate				1,008.00
		15% contractor overhead				151.20
		Total (Rs.)				1,159.20

1279

65 mm PVC (Polyvinyl Chloride) Pipe ASTMD 1785, 29.09 kg/cm2

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.011	nos	1,200.00	13.20	30.30
	un skilled	0.019	nos	900.00	17.10	
materials	a. 65 mm PVC Pipe ASTMD 1785, 29.09 kg/cm2	1	Rm	698.00	698.00	923.00
	b. PVC fittings	Ls			175.00	
	c. Jointing materials (flow guard adesive soln)	Ls			50.00	
Rate per Rm Rs.		Actual rate				953.30
		15% contractor overhead				143.00
		Total (Rs.)				1,096.30

1280

40mm GM Check Valve

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.33	nos	1,200.00	396.00	396.00
materials	a. 40 mm G M check valve	1	nos	3,035.00	3,035.00	3,035.00
Rate per nos Rs.		Actual rate				3,431.00
		15% contractor overhead				514.65
		Total (Rs.)				3,945.65

1281

Single Lever surgical purpose elbow action basin mixer with extended operating lever

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	132.00
materials	15mm CP single lever surgical purpose elbow action basin mixer with extended operating lever.	1	nos	6,135.00	6,135.00	6,135.00
	material				25.00	25.00
Rate per set Rs.		Actual rate				6,292.00
		15% contractor overhead				943.80
		Total (Rs.)				7,235.80

1282

PVC Floor Trap 7.5x7.5cm (2½" X 2½")

sources	Level	Qty	Unit	Rate/unit	cost	Total Cost
labour	skilled	0.11	nos	1,200.00	132.00	222.00
	un skilled	0.10	nos	900.00	90.00	
materials	PVC Floor Trap 7.5x7.5cm (2½" X 2½")	1	nos	199.00	199.00	199.00
Rate per nos Rs.		Actual rate				421.00
		15% contractor overhead				63.15
		Total (Rs.)				484.15

ELECTRICAL RATE ANALYSIS

Item No:	Description	Unit	Qty	Rate	Amount	
Wiring of light/fan & power points:						
General Light Points						
	A. Light/FanPoint					
	A. Material cost & Labour cost					
	2x2.5 Sq. mm/equivalent cu cable wiring, bends, circular & Junction boxes	point	1.00	665.00	665	
	A. Total				665.00	
	B. Overhead & Profit 15% of A				99.75	
	C. Total (A+B)				764.75	/point
General Power Points						
	A. 5/6 pin 6 x 16 A general outlet point					
	A. Material cost					
	{a} 5 pin 6/16 A general outlet Point with 2x4+1x2.5 sq. mm / equivalent cu cable, bends, circular & Junction Boxes	pc	1	725.00	725	
	power socket	pc	1	342.00	342	
	A. Total				1067.00	
	B. Overhead & Profit 15% of A				160.05	
	C. Total (A+B)				1227.05	/point
AC Power Points						
	A. 5/6 pin 25 A AC outlet point					
	A. Material cost & labour cost					
	{a} 5 pin 25 A general outlet Point with 2x7/20+1x3/22 sq. mm / equivalent cu cable, bends, circular & Junction Boxes	pc	1	800.00	800	
	AC socket	pc	1	413.00	413	
	A. Total				1213.00	
	B. Overhead & Profit 15% of A				181.95	
	C. Total (A+B)				1394.95	/point
Light Fixture						
	A. 9W LED Light Fixture					
	A. Material cost					
	1x6W LED Lamp	set	1	880.00	880.00	
	Screw, Grips and related accessories	LS	1	11.00	11.00	
	A. Total				891.00	
	B. Labour Costs					
	Skilled	prn	0.05	1200.00	60.00	
	Semi-Skilled	prn	0.05	1000.00	50.00	
	B. Total				110.00	
	C. Total (A+B)				1001.00	
	D. Overhead & Profit 15% of C				150.15	
	E. Total (C+D)				1151.15	/set
	B. 12W LED square Light Fixture					
	A. Material cost					

ELECTRICAL RATE ANALYSIS

Item No:	Description	Unit	Qty	Rate	Amount	
	1x12W LED square Lamp	set	1	996.00	996.00	
	Screw, Grips and related accessories	LS	1	11.00	11.00	
	A. Total				1007.00	
	B. Labour Costs					
	Skilled	prn	0.05	1200.00	60.00	
	Semi-Skilled	prn	0.05	1000.00	50.00	
	B. Total				110.00	
	C. Total (A+B)				1117.00	
	D. Overhead & Profit 15% of C				167.55	
	E. Total (C+D)				1284.55	/set

C. 15W LED wall décor lamp						
	A. Material cost					
	1x15W LED wall décor lamp	set	1	849.00	849.00	
	Screw, Grips and related accessories	LS	1	11.00	11.00	
	A. Total				860.00	
	B. Labour Costs					
	Skilled	prn	0.05	1200.00	60.00	
	Semi-Skilled	prn	0.05	1000.00	50.00	
	B. Total				110.00	
	C. Total (A+B)				970.00	
	D. Overhead & Profit 15% of C				145.5	
	E. Total (C+D)				1115.50	/set

D. 20W LED square Light Fixture						
	A. Material cost					
	1x20W LED square Lamp	set	1	1296.00	1296.00	
	Screw, Grips and related accessories	LS	1	11.00	11.00	
	A. Total				1307.00	
	B. Labour Costs					
	Skilled	prn	0.05	1200.00	60.00	
	Semi-Skilled	prn	0.05	1000.00	50.00	
	B. Total				110.00	
	C. Total (A+B)				1417.00	
	D. Overhead & Profit 15% of C				212.55	
	E. Total (C+D)				1629.55	/set

E. 11W MIRROR LIGHT						
	A. Material cost					
	11W mirror light ALL COMPLETE SET	set	1	478.00	478.00	
	Screw, Grips and related accessories	LS	1	11.00	11.00	
	A. Total				489.00	
	B. Labour Costs					
	Skilled	prn	0.05	1200.00	60.00	
	Semi-Skilled	prn	0.05	1000.00	50.00	
	B. Total				110.00	
	C. Total (A+B)				599.00	
	D. Overhead & Profit 15% of C				89.85	

ELECTRICAL RATE ANALYSIS

Item No:	Description	Unit	Qty	Rate	Amount	
	E. Total (C+D)				688.85	/set

F. 20W led tube Light Fixture						
A. Material cost						
	20W led tube Light Fixture	set	1	408.00	408.00	
	Screw, Grips and related accessories	LS	1	11.00	11.00	
	A. Total				419.00	
B. Labour Costs						
	Skilled	prn	0.05	1200.00	60.00	
	Semi-Skilled	prn	0.05	1000.00	50.00	
	B. Total				110.00	
	C. Total (A+B)				529.00	
	D. Overhead & Profit 15% of C				79.35	
	E. Total (C+D)				608.35	/set

G. 50 W High Bay Light						
A. Material cost						
	light highbay type-50W	set	1	5088.00	5088.00	
	Screw, Grips and related accessories	LS	1	11.00	11.00	
	A. Total				5099.00	
B. Labour Costs						
	Skilled	prn	0.05	1200.00	60.00	
	Semi-Skilled	prn	0.05	1000.00	50.00	
	B. Total				110.00	
	C. Total (A+B)				5209.00	
	D. Overhead & Profit 15% of C				781.35	
	E. Total (C+D)				5990.35	/set

H. 200W Linear High Bay Light						
A. Material cost						
	Light highbay type linear-200W	set	1	11200.00	11200.00	
	Screw, Grips and related accessories	LS	1	11.00	11.00	
	A. Total				11211.00	
B. Labour Costs						
	Skilled	prn	0.05	1200.00	60.00	
	Semi-Skilled	prn	0.05	1000.00	50.00	
	B. Total				110.00	
	C. Total (A+B)				11321.00	
	D. Overhead & Profit 15% of C				1698.15	
	E. Total (C+D)				13019.15	/set

I. 50W LED Flood Light						
A. Material cost						
	LED Flood Light-50W	set	1	2712.00	2712.00	
	Screw, Grips and related accessories	LS	1	11.00	11.00	
	A. Total				2723.00	
B. Labour Costs						
	Skilled	prn	0.05	1200.00	60.00	

ELECTRICAL RATE ANALYSIS

Item No:	Description	Unit	Qty	Rate	Amount	
	Semi-Skilled	prn	0.05	1000.00	50.00	
	B. Total				110.00	
	C. Total (A+B)				2833.00	
	D. Overhead & Profit 15% of C				424.95	
	E. Total (C+D)				3257.95	/set

J. LED Bulkhead Light						
A. Material cost						
	LED Light-20W	set	1	2228.00	2228.00	
	Screw, Grips and related accessories	LS	1	11.00	11.00	
	A. Total				2239.00	
B. Labour Costs						
	Skilled	prn	0.05	1200.00	60.00	
	Semi-Skilled	prn	0.05	1000.00	50.00	
	B. Total				110.00	
	C. Total (A+B)				2349.00	
	D. Overhead & Profit 15% of C				352.35	
	E. Total (C+D)				2701.35	/set

Switch Fixture	Description	Unit	Qty	Rate	Amount	
	A. 10 A 1 Gang 1 way switch					
A. Material cost						
	Switch with plate	set	1	103.00	103.00	
	Switch Box	set	1	160.00	160.00	
	Screw, Grips etc.	LS	1	11.00	11.00	
	A. Total				274.00	
B. Labour Costs						
	Skilled	prn	0.1	1200.00	120.00	
	Semi-Skilled	prn	0.2	1000.00	200.00	
	B. Total				320.00	
	C. Total (A+B)				594.00	
	D. Overhead & Profit 15% of C				89.1	
	E. Total (C+D)				683.10	/set

B. 10 A 2 Gang 1 Way switch						
A. Material cost						
	Switch with plate	set	1	137.00	137.00	
	Switch Box		1	160.00	160.00	
	Screw, Grips etc.	LS	1	11.00	11.00	
	A. Total				308.00	
B. Labour Costs						
	Skilled	prn	0.1	1200.00	120.00	
	Semi-Skilled	prn	0.2	1000.00	200.00	
	B. Total				320.00	
	C. Total (A+B)				628.00	
	D. Overhead & Profit 15% of C				94.2	

ELECTRICAL RATE ANALYSIS

Item No:	Description	Unit	Qty	Rate	Amount	
	E. Total (C+D)				722.20	/set
C. 10 A 3 Gang 1 Way switch						
A. Material cost						
	Switch	set	1	172.00	172.00	
	Switch Box	set	1	160.00	160.00	
	Screw, Grips etc.	LS	1	11.00	11.00	
	A. Total				343.00	
B. Labour Costs						
	Skilled	prn	0.1	1200.00	120.00	
	Semi-Skilled	prn	0.2	1000.00	200.00	
	B. Total				320.00	
	C. Total (A+B)				663.00	
	D. Overhead & Profit 15% of C				99.45	
	E. Total (C+D)				762.45	/set
D. 10 A 4 Gang 1 Way switch						
A. Material cost						
	Switch socket	set	1	208.00	208.00	
	Switch Box	set	1	160.00	160.00	
	Screw, Grips etc.	LS	1	11.00	11.00	
	A. Total				379.00	
B. Labour Costs						
	Skilled	prn	0.1	1200.00	120.00	
	Semi-Skilled	prn	0.2	1000.00	200.00	
	B. Total				320.00	
	C. Total (A+B)				699.00	
	C. Total				699.00	
	D. Overhead & Profit 15% of C Total				104.85	
	E. Total (C+D)				803.85	/set
E. 10 A 6 Gang 1 Way switch						
A. Material cost						
	Switch socket	set	1	316.00	316.00	
	Switch Box	set	1	160.00	160.00	
	Screw, Grips etc.	LS	1	11.00	11.00	
	A. Total				487.00	
B. Labour Costs						
	Skilled	prn	0.1	1200.00	120.00	
	Semi-Skilled	prn	0.2	1000.00	200.00	
	B. Total				320.00	
	C. Total (A+B)				807.00	
	C. Total				807.00	
	D. Overhead & Profit 15% of C Total				121.05	
	E. Total (C+D)				928.05	/set
F. 10 A 7/8 Gang 1 Way switch						
A. Material cost						

ELECTRICAL RATE ANALYSIS

Item No:	Description	Unit	Qty	Rate	Amount
	Switch socket	set	1	395.00	395.00
	Switch Box	set	1	160.00	160.00
	Screw, Grips etc.	LS	1	11.00	11.00
	A. Total				566.00
	B. Labour Costs				
	Skilled	prn	0.1	1200.00	120.00
	Semi-Skilled	prn	0.2	1000.00	200.00
	B. Total				320.00
	C. Total (A+B)				886.00
	C. Total				886.00
	D. Overhead & Profit 15% of C Total				132.9
	E. Total (C+D)				1018.90 /set

Power Cable	A. Armoured and Un.Armoured copper cable				
	A. Material cost				
	4 core 10 sq. mm. Armoured	r mt	8	637.00	5096.00
	4 core 16 sq. mm. Armoured	r mt	10	926.00	9260.00
	3.5C XLPE 150 sq. mm armoured copper cable	r mt	10	6578.00	65780.00
	Cable Tray 515x50 mm2	r mt	10	4722.00	47220.00
	Cable shoe, PVC Tape for all conductor	LS	8	331.00	2648.00
	A. Total				130004.00
	B. Labour Costs				
	Skilled	m/d	2	1200.00	2400.00
	Semi-Skilled	m/d	3	1000.00	3000.00
	un-Skilled	m/d	4	900.00	3600.00
	B. Total				9000.00
	C. Total (A+B)				139004.00
	C. Total				139004.00
	D. Overhead & Profit 15% of C Total				20850.6
	E. Total (C+D)				159854.60

PLATE EARTHING SYSTEM					
	A. Material cost				
	Complete Earthing	No	1		
	600 x 600 x 3.14 mm copper plate	No	1		
	8 SWG bare copper wire	rm	4		
	29 mm Diameter GI Pipe of 1.5m length	set	1	14250.00	14250
	30 Cm x 30 Cm Cast Iron Cover for water pouring into pit	set	1		
	5/16 nuts & bolt with spring washer cadmium maker	set	1		
	A. Total				14250.00
	B. Labour Costs				
	Skilled	m/d	0.5	1200.00	600.00
	Semi-Skilled	m/d	1	1000.00	1000.00
	un-Skilled	m/d	1	900.00	900.00
	B. Total				2500.00
	C. Total (A+B)				16750.00

ELECTRICAL RATE ANALYSIS

Item No:	Description	Unit	Qty	Rate	Amount	
	E. Overhead & Profit 15% of C				2512.5	
	F. Total (C+D)				19262.50	/job

Electrical Main Panel & Distribution Boards

A. Main Panel Board - MPB						
A. Material cost						
300A Panel Board 12"x52"x66" with copper busbar and hardware	set	1	39785.00	39785.00		
Electronic Digital Volt Meter	pcs	1	1054.00	1054.00		
Electronic Digital Ammeter	pcs	1	1008.00	1008.00		
250/300A C.T. coil per set 3 Pcs	set	1	2494.00	2494.00		
Indication LED Light	pcs	3	244.00	732.00		
250 A TPN MCCB	pc	1	28114.00	28114.00		
125A TP MCCB	pc	1	11670.00	11670.00		
63A TP MCCB	pc	1	5835.00	5835.00		
32A TP MCCB	pc	2	5835.00	11670.00		
32A SP MCB	pc	1	170.00	170.00		
16A SP MCB	pc	1	170.00	170.00		
Cement/Sand Mortar for Installation with required Brick wall and redoing the chiselled area (Civil works)	lot	2		251.50		
			125.75			
A. Total					102953.50	
B. Labour Costs						
Skilled	m/d	1	1200.00	1200.00		
Semi-Skilled	m/d	2	1000.00	2000.00		
B. Total					3200.00	
C. Total (A+B)					106153.50	
C. Total					106153.50	
D. Overhead & Profit 15% of C Total					15923.025	
E. Total (C+D)					122076.53	/set

DB-A						
A. Material cost						
4 Way TPN DB Double Cover	set	1	2748.00	2748.00		
Cement/Sand Mortar for Installation	lot	1	125.75	125.75		
63 A TPN MCCB	pc	1	5835.00	5835.00		
40 A TP MCCB	pc	1	5835.00	5835.00		
32 A TP MCCB	pc	1	5835.00	5835.00		
A. Total					20378.75	
B. Labour Costs						
Skilled	prn	0.5	1200.00	600.00		
Semi-Skilled	prn	0.5	1000.00	500.00		
B. Total					1100.00	
C. Total (A+B)					21478.75	
C. Total					21478.75	
D. Overhead & Profit 15% of C Total					3221.8125	
E. Total (C+D)					24700.56	/set

ELECTRICAL RATE ANALYSIS

Item No:	Description	Unit	Qty	Rate	Amount	
SDB-0						
A. Material cost						
	6 Way TPN DB Double Cover	set	1	3088.00	3088.00	
	Cement/Sand Mortar for Installation	lot	1	125.75	125.75	
	40 A TP MCB	pc	1	1433.00	1433.00	
	16 A TP MCB	pc	2	1273.00	2546.00	
	32 A TP MCB	pc	1	1273.00	1273.00	
	A. Total				8465.75	
B. Labour Costs						
	Skilled	prn	0.5	1200.00	600.00	
	Semi-Skilled	prn	0.5	1000.00	500.00	
	B. Total				1100.00	
	C. Total (A+B)				9565.75	
	C. Total				9565.75	
	D. Overhead & Profit 15% of C Total				1434.8625	
	E. Total (C+D)				11000.61	/set
SDB-1						
A. Material cost						
	4 Way TPN DB Double Cover	set	1	2748.00	2748.00	
	Cement/Sand Mortar for Installation	lot	1	125.75	125.75	
	32 A TP MCB	pc	1	1273.00	1273.00	
	32 A SP MCB	pc	3	170.00	510.00	
	A. Total				4656.75	
B. Labour Costs						
	Skilled	prn	0.5	1200.00	600.00	
	Semi-Skilled	prn	0.5	1000.00	500.00	
	B. Total				1100.00	
	C. Total (A+B)				5756.75	
	C. Total				5756.75	
	D. Overhead & Profit 15% of C Total				863.5125	
	E. Total (C+D)				6620.26	/set
SDB-0-0						
A. Material cost						
	6 Way TPN DB Double Cover	set	1	7959.00	7959.00	
	Cement/Sand Mortar for Installation	lot	1	125.75	125.75	
	16 A TP MCB	pc	1	1273.00	1273.00	
	6 A SP MCB	pc	12	170.00	2040.00	
	16 A SP MCB	pc	6	170.00	1020.00	
	A. Total				12417.75	
B. Labour Costs						
	Skilled	prn	0.5	1200.00	600.00	
	Semi-Skilled	prn	0.5	1000.00	500.00	
	B. Total				1100.00	
	C. Total (A+B)				13517.75	
	C. Total				13517.75	

ELECTRICAL RATE ANALYSIS

Item No:	Description	Unit	Qty	Rate	Amount	
	D. Overhead & Profit 15% of C Total				2027.6625	
	E. Total (C+D)				15545.41	/set

SDB-0-1						
A. Material cost						
8 Way TPN DB Double Cover	set		1	5973.00	5973.00	
Cement/Sand Mortar for Installation	lot		1	125.75	125.75	
16 A TP MCB	pc		1	1273.00	1273.00	
6 A SP MCB	pc		9	170.00	1530.00	
16 A SP MCB	pc		12	170.00	2040.00	
A. Total					10941.75	
B. Labour Costs						
Skilled	prn		0.5	1200.00	600.00	
Semi-Skilled	prn		0.5	1000.00	500.00	
B. Total					1100.00	
C. Total (A+B)					12041.75	
C. Total					12041.75	
D. Overhead & Profit 15% of C Total					1806.2625	
E. Total (C+D)					13848.01	/set

SDB-0-2						
A. Material cost						
10 Way TPN DB Double Cover	set		1	7959.00	7959.00	
Cement/Sand Mortar for Installation	lot		1	125.75	125.75	
32 A TP MCB	pc		1	1273.00	1273.00	
25 A SP MCB	pc		3	170.00	510.00	
6 A SP MCB	pc		10	170.00	1700.00	
16 A SP MCB	pc		12	170.00	2040.00	
A. Total					13607.75	
B. Labour Costs						
Skilled	prn		0.5	1200.00	600.00	
Semi-Skilled	prn		0.5	1000.00	500.00	
B. Total					1100.00	
C. Total (A+B)					14707.75	
C. Total					14707.75	
D. Overhead & Profit 15% of C Total					2206.1625	
E. Total (C+D)					16913.91	/set

SDB-1-0						
A. Material cost						
12 Way SPN DB Double Cover	set		1	1729.00	1729.00	
Cement/Sand Mortar for Installation	lot		1	125.75	125.75	
32 A DP MCB	pc		1	637.00	637.00	
6 A SP MCB	pc		10	170.00	1700.00	
16 A SP MCB	pc		12	170.00	2040.00	
A. Total					6231.75	
B. Labour Costs						
Skilled	prn		0.5	1200.00	600.00	

ELECTRICAL RATE ANALYSIS

Item No:	Description	Unit	Qty	Rate	Amount	
	Semi-Skilled	prn	0.5	1000.00	500.00	
	B. Total				1100.00	
	C. Total (A+B)				7331.75	
	C. Total				7331.75	
	D. Overhead & Profit 15% of C Total				1099.7625	
	E. Total (C+D)				8431.51	/set

SDB-1-1						
A. Material cost						
16 Way SPN DB Double Cover	set	1	1849.00	1849.00		
Cement/Sand Mortar for Installation	lot	1	125.75	125.75		
32 A DP MCB	pc	1	637.00	637.00		
6 A SP MCB	pc	5	170.00	850.00		
16 A SP MCB	pc	8	170.00	1360.00		
A. Total					4821.75	
B. Labour Costs						
Skilled	prn	0.5	1200.00	600.00		
Semi-Skilled	prn	0.5	1000.00	500.00		
B. Total					1100.00	
C. Total (A+B)					5921.75	
C. Total					5921.75	
D. Overhead & Profit 15% of C Total					888.2625	
E. Total (C+D)					6810.01	/set

SDB-1-1						
A. Material cost						
16 Way SPN DB Double Cover	set	1	1849.00	1849.00		
Cement/Sand Mortar for Installation	lot	1	125.75	125.75		
32 A DP MCB	pc	1	637.00	637.00		
25 A SP MCB	pc	2	170.00	340.00		
6 A SP MCB	pc	4	170.00	680.00		
16 A SP MCB	pc	5	170.00	850.00		
A. Total					4481.75	
B. Labour Costs						
Skilled	prn	0.5	1200.00	600.00		
Semi-Skilled	prn	0.5	1000.00	500.00		
B. Total					1100.00	
C. Total (A+B)					5581.75	
C. Total					5581.75	
D. Overhead & Profit 15% of C Total					837.2625	
E. Total (C+D)					6419.01	/set

Fan Fixture

48" Ceiling fan with J hook						
A. Material cost						
48" Ceiling fan with J hook	set	1	2388.00	2388.00		
Screw, Grips and related accessories	LS	1	11.00	11.00		
A. Total					2399.00	

ELECTRICAL RATE ANALYSIS

Item No:	Description	Unit	Qty	Rate	Amount	
	B. Labour Costs					
	Skilled	prn	0.1	1200.00	120.00	
	Semi-Skilled	prn	0.1	1000.00	100.00	
	B. Total				220.00	
	C. Total (A+B)				2619.00	
	D. Overhead & Profit 15% of C				392.85	
	E. Total (C+D)				3011.85	/set

Generat or	Diesel Generator for Backup Power Supply					
	A. Material cost					
	a. Fully Enclosed type 200 KVA, 415 Volt, 3 Phase, 50 Hz standby Diesel Generator	set	1	2331858.41	2331858.41	
	b. Cable 150 sq. mm Cu cable 4 core	m	10	6153.00	61530.00	
	c. Chemical Earthing	set	2	20000.00	40000.00	
	d. 250A ATS	set	1	28517.00	28517.00	
	A. Total				2461905.41	
	B. Labor Costs					
	Skilled	prn	1	1200.00	1200.00	
	Semi-Skilled	prn	2	1000.00	2000.00	
	un-Skilled	prn	2	900.00	1800.00	
	B. Total				5000.00	
	C. Total (A+B)				2466905.41	
	C. Total				2466905.41	
	D. Overhead & Profit 15% of C Total				370035.8115	
	E. Total (C+D)				2836941.22	/set

	1. Stadium lights (Floodlight)					
	A. Material cost					
	2C 10 sq. mm copper wire	mtr	162.5	382.00	62075.00	
	25 mm Dia PVC conduit	mtr	79.75	144.00	11484.00	
	Pipe nail, Banding wire	LS	30	3.09	92.70	
	Cement/Sand Mortar for redoing the chiselled area	LS	4	125.75	503.00	
	PVC Tape, Insulating Materials	LS	30	5.15	154.50	
	A. Total				74309.20	
	B. Labour Costs					
	Skilled	prn	1	1200.00	1200.00	
	Semi-Skilled	prn	2	1000.00	2000.00	
	B. Total				3200.00	
	C. Total (A+B)				77509.20	
	D. Overhead & Profit 15% of C				11626.38	
	E. Total (C+D)				89135.58	/point
	2. Stadium light (Floodlight) Fixture with pole					
	A. Material cost					
	1x400W LED Lamp	set	30	17600.00	528000.00	

ELECTRICAL RATE ANALYSIS

Item No:	Description	Unit	Qty	Rate	Amount	
	Stadium Galvanised pole 25m.	pc	1	354368.00	354368.00	
	Screw, Grips and related accessories	LS	120	11.00	1320.00	
	Transportation and installation cost	LS	1	10631.04	10631.04	
	A. Total				894319.04	
	B. Labour Costs					
	Skilled	prn	2		0.00	
	Semi-Skilled	prn	4		0.00	
	Unskilled	prn	4		0.00	
	B. Total				0.00	
	C. Total (A+B)				894319.04	
	D. Overhead & Profit 15% of C				134147.856	
	E. Total (C+D)				1028466.90	/set

DB-Guard / Ticket block						
A. Material cost						
	4 Way SPN DB Double Cover	set	1	1114.00	1114.00	
	Cement/Sand Mortar for Installation	lot	1	125.75	125.75	
	6 A SP MCB	pc	1	170.00	170.00	
	16 A SP MCB	pc	1	170.00	170.00	
	16 A DP MCB	pc	1	637.00	637.00	
	A. Total				2216.75	
B. Labour Costs						
	Skilled	prn	0.5	1200.00	600.00	
	Semi-Skilled	prn	0.5	1000.00	500.00	
	B. Total				1100.00	
	C. Total (A+B)				3316.75	
	C. Total				3316.75	
	D. Overhead & Profit 15% of C Total				497.5125	
	E. Total (C+D)				3814.26	/set

DB-Covered Hall						
A. Material cost						
	12 Way SPN DB Double Cover	set	1	1729.00	1729.00	
	Cement/Sand Mortar for Installation	lot	1	125.75	125.75	
	6 A SP MCB	pc	8	170.00	1360.00	
	16 A SP MCB	pc	2	170.00	340.00	
	32 A DP MCB	pc	1	637.00	637.00	
	A. Total				4191.75	
B. Labour Costs						
	Skilled	prn	0.5	1200.00	600.00	
	Semi-Skilled	prn	0.5	1000.00	500.00	
	B. Total				1100.00	
	C. Total (A+B)				5291.75	
	C. Total				5291.75	
	D. Overhead & Profit 15% of C Total				793.7625	
	E. Total (C+D)				6085.51	/set

ELECTRICAL RATE ANALYSIS

Item No:	Description	Unit	Qty	Rate	Amount
	DB-A&C				
	A. Material cost				
	4 Way TPN DB Double Cover	set	1	2748.00	2748.00
	Cement/Sand Mortar for Installation	lot	1	125.75	125.75
	32 A SP MCB	pc	2	170.00	340.00
	16 A SP MCB	pc	2	170.00	340.00
	32 A TPN MCCB	pc	1	5835.00	5835.00
	A. Total				9388.75
	B. Labour Costs				
	Skilled	prn	0.5	1200.00	600.00
	Semi-Skilled	prn	0.5	1000.00	500.00
	B. Total				1100.00
	C. Total (A+B)				10488.75
	C. Total				10488.75
	D. Overhead & Profit 15% of C Total				1573.3125
	E. Total (C+D)				12062.06 /set

	SDB-0- A&C				
	A. Material cost				
	16 Way SPN DB Double Cover	set	1	1849.00	1849.00
	Cement/Sand Mortar for Installation	lot	1	125.75	125.75
	6 A SP MCB	pc	8	170.00	1360.00
	16 A SP MCB	pc	3	170.00	510.00
	16 A DP MCB	pc	1	637.00	637.00
	A. Total				4481.75
	B. Labour Costs				
	Skilled	prn	0.5	1200.00	600.00
	Semi-Skilled	prn	0.5	1000.00	500.00
	B. Total				1100.00
	C. Total (A+B)				5581.75
	C. Total				5581.75
	D. Overhead & Profit 15% of C Total				837.2625
	E. Total (C+D)				6419.01 /set

	SDB-1-1/1-2				
	A. Material cost				
	16 Way SPN DB Double Cover	set	1	1849.00	1849.00
	Cement/Sand Mortar for Installation	lot	1	125.75	125.75
	6 A SP MCB	pc	7	170.00	1190.00
	16 A SP MCB	pc	7	170.00	1190.00
	32 A DP MCB	pc	1	637.00	637.00
	A. Total				4991.75
	B. Labour Costs				
	Skilled	prn	0.5	1200.00	600.00
	Semi-Skilled	prn	0.5	1000.00	500.00
	B. Total				1100.00
	C. Total (A+B)				6091.75
	C. Total				6091.75

ELECTRICAL RATE ANALYSIS

Item No:	Description	Unit	Qty	Rate	Amount	
	D. Overhead & Profit 15% of C Total				913.7625	
	E. Total (C+D)				7005.51	/set

SDB-2- A&C						
A. Material cost						
12 Way SPN DB Double Cover	set	1	1729.00		1729.00	
Cement/Sand Mortar for Installation	lot	1	125.75		125.75	
6 A SP MCB	pc	3	170.00		510.00	
16 A SP MCB	pc	5	170.00		850.00	
16 A DP MCB	pc	1	637.00		637.00	
A. Total					3851.75	
B. Labour Costs						
Skilled	prn	0.5	1200.00		600.00	
Semi-Skilled	prn	0.5	1000.00		500.00	
B. Total					1100.00	
C. Total (A+B)					4951.75	
C. Total					4951.75	
D. Overhead & Profit 15% of C Total					742.7625	
E. Total (C+D)					5694.51	/set

SDB-Flood Light						
A. Material cost						
6 Way TPN DB Double Cover	set	1	3088.00		3088.00	
Cement/Sand Mortar for Installation	lot	1	125.75		125.75	
125 A TP MCCB	pc	1	11670.00		11670.00	
32 A TP MCB	pc	4	1273.00		5092.00	
A. Total					19975.75	
B. Labour Costs						
Skilled	prn	1	1200.00		1200.00	
Semi-Skilled	prn	1	1000.00		1000.00	
B. Total					2200.00	
C. Total (A+B)					22175.75	
C. Total					22175.75	
D. Overhead & Profit 15% of C Total					3326.3625	
E. Total (C+D)					25502.11	/set

200 KVA Transformer

Source	Level	Qty.	Unit	Rate/Unit	Cost	Total Cost
Labour	Skilled	2	nos	1,200.00	2,400.00	8,100.00
	Semi-Skilled	3	nos	1,000.00	3,000.00	
	Un Skilled	3	nos	900.00	2,700.00	
Materials	a. Copper Wound Distribution Outdoor Transformer with First Filing of Oil Ex-Factory Price 11/0.4/.200KVA 3 phase , 50 Hz Transformer Manufactured by NS and ISO certified Holders as per IEC specifications	1.0	set	956,250.00	956,250.00	956,250.00
	c.Nut Bolt 5", 6", 8"	2.0	Kg	200.00	400.00	400.00
Actual Rate						964,750.00
15% Contractor Overhead						144,712.50
Total RS						1,109,462.50
Rate Per set Rs		1109462.50				

Installation of Transformer & electric poles

Source	Level	Qty.	Unit	Rate/Unit	Cost	Total Cost
Labour	Skilled	1	nos	1,200.00	1,200.00	6,900.00
	Semi-Skilled	3	nos	1,000.00	3,000.00	
	Un Skilled	3	nos	900.00	2,700.00	
Materials	11 m Galvanied steel tubuler pole as per IS 2713,410sp-53 with nut bolt and washer(178 kg)	2.0	set	21,060.00	42,120.00	188,643.00
	11kv Disc Insulator with grapher(3 bolt)	6.0	set	1,033.00	6,198.00	
	11kv Pin Insulator with pins&nuts/washer	6.0	set	193.00	1,158.00	
	11kv Dropout Fuse	3.0	set	14,580.00	43,740.00	
	D-Iron Set with shakle insulator	3.0	set	32.00	96.00	
	HT Tape	3.0	roll	170.00	510.00	
	Channel for DO fuse and lighting arrestor ISLC2348mm	1.0	Nos	3,227.00	3,227.00	
	Steel cross Arm channel(500x100x6, 4X300)mm	2.0	set	330.00	660.00	
	Pole Clamp with Nuts,Bolts and Washers(PC1)	2.0	Nos	240.00	480.00	
	Steel Cross arm Channel(500x100x6,4x1200)mm	2.0	set	1,300.00	2,600.00	
	Pole Clamp with Nuts,Bolts and Washers(PC2)	2.0	Nos	240.00	480.00	
	Flat cross arm V channel	4.0	set	4,500.00	18,000.00	
	Transformer PLATFORM base all complete	1.0	Nos	13,500.00	13,500.00	
	Bracing Angle(TR5) 50x50x50x1 mm	8.0	Nos	685.00	5,480.00	
	Bracing Band(TR6 or TR6P)with 2-M16,2-M16X50 Bolt, 8-M16 Nut, 8-M16 Washer	2.0	Set	685.00	1,370.00	
	M16x50 Bolt with 2-M16 Nut, 2-M16 Washer	16.0	Nos	375.00	6,000.00	
	M16x250 Bolt with 2-M16 Nut, 2-M16 Washer	8-STTP 12PCS	Nos	490.00	5,880.00	
	M16x350 Bolt with 2-M16 Nut, 2-M16 Washer	8-STTP 12PCS	Nos	700.00	8,400.00	
	250 A TPMCCB	1.0	Nos	28,114.00	28,114.00	
	0.05 sq. inch Dog type ACSR conductor	15.0	m	42.00	630.00	
Actual Rate						188,643.00
15% Contractor Overhead						28,296.45
Total RS						216,939.45
Rate Per set Rs		216939.45				

Lightening Arrestor for 3 phase for Transformer

Materials	0.5 KV(3 Pcs)	set	1	1,273.00	1,273.00
	11 KV(3 Pcs)	set	1	4,326.00	4,326.00
	Stay set with accessories				
	GI Wire	NOS	2	1,217.00	2,434.00
	GI plate	NOS	2	1,221.00	2,442.00
	Gay Insulator	NOS	2	58.00	116.00
	Elbow	NOS	2	106.00	212.00
	Rod,nut	NOS	2	458.00	916.00
	Grip	NOS	2	50.00	100.00
	Cement/Sand Mortar for Installation with required Brick wall and redoing the chiselled area (Civil works)	LS	2	125.75	251.50
	A. Total				12,070.50
Labour	Skilled	prn	1	1,200.00	1,200.00
	Semi-Skilled	prn	2	1,000.00	2,000.00
	un-Skilled	prn	2	900.00	1,800.00
	B. Total				5,000.00
	C. Total (A+B)				17,070.50
	C. Total				17,070.50
	D. Overhead & Profit 15% of C Total				2,560.58
	E. Total (C+D)				19,631.08 /set

/set

District Rate

Labour Rate

Skilled	m/d	900.00	1,200.00	Bhaktapur district rate
Semi Skilled	m/d	650.00	1,000.00	Bhaktapur district rate
Un Skilled	m/d	650.00	900.00	Bhaktapur district rate

Material Rate

Rate Rate WITH 0% TRANS.

Cables and Wires, cable Tray

1 sq mm cu. Cable	rm	11.78	11.78	Bhaktapur district rate
2C 6 sq. mm cu. Cable	rm	196.00	196.00	kathmandu district rate
4 sq mm cu. Cable	rm	44.78	44.78	Bhaktapur district rate
Cable Tray 515x50 mm2	rm	4,722.00	4,722.00	Bhaktapur district rate
2 core 4 sq. mm. Un Armoured	rm	329.00	329.00	Bhaktapur district rate
2 core 10 sq. mm. Armoured	rm	382.00	382.00	Bhaktapur district rate
4 core 6 sq. mm. Armoured	rm	424.00	424.00	Bhaktapur district rate
4 core 10 sq. mm. Armoured	rm	637.00	637.00	Bhaktapur district rate
4 core 16 sq. mm. Armoured	rm	926.00	926.00	Bhaktapur district rate
4 core 35 sq. mm. Armoured	rm	1,857.00	1,857.00	Bhaktapur district rate
3.5C XLPE 150 sq. mm armoured copper cable	rm	6,578.00	6,578.00	Bhaktapur district rate
0.05 sq. inch Dog type ACSR conductor(IEC 209or equivalent)	rm	42.00	42.00	Bhaktapur district rate

Conduits, Junction, Cable Shoe and Circular Boxes

16 mm PVC Conduit	rm	46.00	46.00	kathmandu district rate
25 mm PVC FRLS Conduit	rm	144.00	144.00	kathmandu district rate
Cable shoe, 70 mm2	pc	95.00	95.00	Bhaktapur district rate
Cable shoe, 35 mm2	pc	85.00	85.00	Bhaktapur district rate
Cable shoe, 16 mm2	pc	66.00	66.00	Bhaktapur district rate
Saddle, Grip, Screw,PVC Tape	ls	31.00	31.00	(8+6+2+15) kathmandu district rate

Circuit Breakers

6-32A TP MCB	pc	1,273.00	1,273.00	Bhaktapur district rate
40-63A TP MCB	pc	1,433.00	1,433.00	Bhaktapur district rate
6-32 A DP MCB	pc	637.00	637.00	Bhaktapur district rate
6-32 A SP MCB	pc	170.00	170.00	Bhaktapur district rate
16A-63 amp MCCB TP,16kA	pc	5,835.00	5,835.00	Bhaktapur district rate
80 amp MCCB TP,25kA	pc	7,256.00	7,256.00	Bhaktapur district rate
125 amp MCCB TP,25kA	pc	11,670.00	11,670.00	Bhaktapur district rate
250 amp MCCB TP,36kA	pc	28,114.00	28,114.00	Bhaktapur district rate

Panel, DB Boards and accessories

kilo watt hour energy meter 3-phase	pc	10,635.00	10,635.00	Bhaktapur district rate
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4 Way SPN DB Double Cover	no	1,114.00	1,114.00	Bhaktapur district rate
12 Way SPN DB Double Cover	no	1,729.00	1,729.00	Bhaktapur district rate
16 Way SPN DB Double Cover	no	1,849.00	1,849.00	Bhaktapur district rate
12 Way TPN DB Double Cover	no	7,959.00	7,959.00	Bhaktapur district rate
8 Way TPN DB Double Cover	no	5,973.00	5,973.00	Bhaktapur district rate
6 Way TPN DB Double Cover	no	3,088.00	3,088.00	Bhaktapur district rate
4 Way TPN DB Double Cover	no	2,748.00	2,748.00	Bhaktapur district rate
300 Amp Panel Board 12"x52"x66" with copper Busbar and hardware	set	39,785.00	39,785.00	Bhaktapur district rate
100 Amp Panel Board 12"x48"x60" with copper Busbar and hardware	set	43,763.00	43,763.00	Bhaktapur district rate
Electronic Digital Amp Meter	pc	1,008.00	1,008.00	Bhaktapur district rate
Electronic Digital Volt Meter	set	1,054.00	1,054.00	Bhaktapur district rate
Indication LED Light	pc	244.00	244.00	Bhaktapur district rate
250/300A C.T. coil (3 pc/set)	set	2,494.00	2,494.00	Bhaktapur district rate
150/200A C.T. coil (3 pc/set)	set	1,835.00	1,835.00	Bhaktapur district rate
60/100A C.T. coil (3 pc/set)	set	1,475.00	1,475.00	Bhaktapur district rate
volt meter selector switch	pc	732.00	732.00	Bhaktapur district rate
Amp meter Selector switch	pc	668.00	668.00	Bhaktapur district rate
Amp glass fuse with holder	pc	138.00	138.00	Bhaktapur district rate

Switches and Sockets

One gang one way switch	set	103.00	103.00	Bhaktapur district rate
Two gang one way switch	set	137.00	137.00	Bhaktapur district rate
Three Gang one way switch	set	172.00	172.00	Bhaktapur district rate
Four gang one way switch	set	208.00	208.00	Bhaktapur district rate
Six gang one way switch	set	316.00	316.00	Bhaktapur district rate
7/8 gang one way switch	set	395.00	395.00	Bhaktapur district rate
18 SWG Metal Box 5-8 Gang(3"x5")	nos	160.00	160.00	Chitwan district rate
AC Socket	set	413.00	413.00	Bhaktapur district rate
6/16 Amp , Power sockets with switch , indicator	set	342.00	342.00	Bhaktapur district rate
32A 3 phase socket	set	827.00	827.00	Bhaktapur district rate
RJ 45	set	212.00	212.00	Bhaktapur district rate
CAT-6	set	331.00	331.00	Bhaktapur district rate

Light and Fan Fixtures

High bay light - 50 W	set	5,088.00	5,088.00	kathmandu district rate
Linear High bay light - 200 W	set	11,200.00	11,200.00	kathmandu district rate
9W Surface LED light	set	880.00	880.00	kathmandu district rate

12W Surface LED light	pcs	996.00	996.00	kathmandu district rate
20W Surface LED light	pcs	1,296.00	1,296.00	kathmandu district rate
48", 3 Blade ceiling fan(Orient,Bajajor equivalent)	set	2,388.00	2,388.00	Bhaktapur district rate
led bulb-15 W all set wall light	set	849.00	849.00	Bhaktapur district rate
11W mirror Light	set	478.00	478.00	Bhaktapur district rate
Wall fan	set	2,918.00	2,918.00	Bhaktapur district rate
Flood light-400W	set	17,600.00	17,600.00	kathmandu district rate
Flood light-50W	set	2,712.00	2,712.00	kathmandu district rate
LED Bulkhead Light-20W	set	2,228.00	2,228.00	Bhaktapur district rate
led tubelight with holder-20w set	set	408.00	408.00	kathmandu district rate

Diesel Generator

Earthing(Chemical Earthing)	pit	20,000.00	20,000.00	quotation
200 KVA, 415 Volt, 3 Phase, 50 Hz 0.8 pf silent type with canopy standby Diesel Generator set - Mahindra,Volvo or equivalent	set	2,331,858.41	2,331,858.41	kathmandu district rate
300 A TPN 4 Pole ATS	set	28,517.00	28,517.00	Bhaktapur district rate
Cable 120 sq. mm cu cable 4 Core	m	6,153.00	6,153.00	Kathmandu district rate

Accessories

Screw, nails,Grips etc. for light and fan fixture installation	LS	11.00	11.00	Tentative Estimate because Exact Calculation is not possible
Cement/Sand Mortar for redoing the chiselled area for point wiring	LS	125.75	125.75	Tentative Estimate because Exact Calculation is not possible
Pipe nail, Banding wire for point wiring	LS	3.09	3.09	Tentative Estimate because Exact Calculation is not possible
PVC Tape, Insulating Materials	LS	5.15	5.15	Tentative Estimate because Exact Calculation is not possible
Steel screws	pcs	1.80	1.80	Tentative Estimate because Exact Calculation is not possible
4" PVC duct with housing/hanging canopy	set	240.00	240.00	Tentative Estimate because Exact Calculation is not possible

Earthing System

Complete earthing of building by digging a pit of 5 ft depth and using 3mm copper wire , copper plate (600*600*3.15)mm, coal, salt and other accessories	set	14,250.00	14,250.00	Chitwan district rate
Medical Isolation Panel	set	707,840.00	707,840.00	https://www.indiamart.com/proddetail/medical-isolation-panels-9100194012.html

A. Electrical System

1.Concealed Wiring of light/fan & power Points:(House wiring)

1.1

Supply of materials and wiring with PVC Insulated copper wire in PVC rigid conduit without any joint in middle of the span with necessary connecting, fixing, insulating and jointing materials as per drawing and specification complete (wire: Trishakti, Pioneer, Litmus)

1.1 Light/ Fan Points				
{a} Light, fan Point with 2x2.5 Sq. mm/equivalent cu cable, bends, circular & Junction boxes	point	665.00	665.00	Chitwan District Rate
1.2 Power Points				
{a} 5 pin 6/16 A general outlet Point with 2x4+1x2.5 sq. mm / equivalent cu cable, bends, circular & Junction Boxes	Point	725.00	725.00	Chitwan District Rate
{b} 5 pin 20A general outlet Point with 2x7/20+1x3/22 sq. mm / equivalent cu wire with cable, bends, circular & Junction Boxes	Point	800.00	800.00	Chitwan District Rate

1

Poles and accessories

Steel Tubuler Pole 9 mtr. Long(folding or non-folding) as per IS 2713, 410 SP-31 with nut,bolt and washer(147 kg)	set	21,060.00	21,060.00	Mahottari district rate
Stay Assembly Complete set	set	1,350.00	1,350.00	Mahottari district rate
Nut Bolt 5", 6", 8"	kg	200.00	200.00	Mahottari district rate
Pin Insulator Set	set	193.00	193.00	Mahottari district rate
Disc Insulator Set	set	1,033.00	1,033.00	Mahottari district rate
Shackle insulator set	set	32.00	32.00	kaski district rate
Stay Wire(NS 7/12 guage)	kg	172.80	172.80	Mahottari district rate
HT tape	roll	170.00	170.00	kathmandu district rate
Cross arm V channel	pc	3,183.00	3,183.00	Bhaktapur district rate
Earthing set	set	6,900.00	6,900.00	Kaski district rate

2

Tranformer and accesories

200 KVA Transformer	set	956,250.00	956,250.00	kathmandu district rate
Lighting Arrestor set	set	8,840.00	8,840.00	Mahottari district rate
D.O Fuse Set	set	14,580.00	14,580.00	Mahottari district rate
Earthing set	set	5,579.00	5,579.00	Dadeldhura District Rate
Earthing Copper Wire	kg	1,037.00	1,037.00	Dadeldhura District Rate

5

Transformer Accessories

Cross arm v Channel for DO fuse and lighting arrestor	Nos	3,227.00	3,227.00	kathmandu district rate
Steel cross Arm channel(500x100x6, 4X300)mm	Nos	330.00	330.00	Dhading District Rate
Steel cross Arm channel(500x100x6, 4X1200)mm	Nos	1,300.00	1,300.00	Dhading District Rate
Pole Clamps with nut, bolt and Washers	Nos	240.00	240.00	Mahottari district rate
Flat Cross Arm V channel	Nos	4,500.00	4,500.00	Mahottari district rate
Nuts,Bolts and Washer	Kg	200.00	200.00	Mahottari district rate
Bracing Angle				
Bracing Band(2-M16,2-M16x50bolt,8-M16 nut and 8-M16 washer)	set	685.00	685.00	Chitwan District Rate (076/077)
M16x50 Bolt with 2-M16 Nut, 2-M16 Washer	set	375.00	375.00	Chitwan District Rate (076/077)
M16x250 Bolt with 2-M16 Nut, 2-M16 Washer	set	490.00	490.00	Chitwan District Rate (076/077)
M16x350 Bolt with 2-M16 Nut, 2-M16 Washer	set	700.00	700.00	Chitwan District Rate (076/077)
Transformer PLATFORM base all complete	set	13,500.00	13,500.00	Mahottari district rate

	Ms pole 8m	set	24,700.00	24,700.00	kathmandu District Rate
	Ms pole 10m	set	29,100.00	29,100.00	kathmandu District Rate
	Installation and transportation with foundation work with all accessories all complete (street light)	set	8,000.00	8,000.00	Kaski District Rate
#REF!	Online UPS 5 KVA	set	164,000.00	164,000.00	http://www.energy np.com/prod/7-UPS-High-frequency-online-1-3-Nepal-Kathmandu.asp
#REF!	Online UPS 7.5 KVA	set	224,000.00	224,000.00	http://www.energy np.com/prod/7-UPS-High-frequency-online-1-3-Nepal-Kathmandu.asp
Lightening arrester for 3 phase transformer					
	0.5 KV(3 Pcs)	set	1,273.00	1,273.00	Bhaktapur district rate
	11 KV(3 Pcs)	set	4,326.00	4,326.00	Bhaktapur district rate
	Stay set accessories				
	GI Wire	nos	1,217.00	1,217.00	Bhaktapur district rate
	GI plate	nos	1,221.00	1,221.00	Bhaktapur district rate
	Gay Insulator	nos	58.00	58.00	Bhaktapur district rate
	Elbow	nos	106.00	106.00	Bhaktapur district rate
	Rod,nut	nos	458.00	458.00	Bhaktapur district rate
	Grip	nos	50.00	50.00	Bhaktapur district rate
	Lead Acid Battery 12V,100AH	Nos	36,700.00	36,700.00	kathmandu district rate
	CISCO SG95-24 Network Switch	nos	103.00	103.00	kathmandu district rate
	patch panel 24 port including LAN and VOIP	nos	445.00	445.00	kathmandu district rate
	Shielded Twisted Pair (STP) Cat 6 networking cable in 20mm HDPE polythene pipe, etc all complete.	nos	49.00	49.00	kathmandu district rate
	RJ45 LAN Computer Socket	nos	247.00	247.00	Bhaktapur district rate
	TV Socket	nos	197.00	197.00	Jhapa district rate
	Telephone socket	nos	150.00	150.00	Bhaktapur district rate
	patch panel 24 port including LAN and VOIP	nos	6,500.00	6,500.00	http://www.daraz.com.np/products/cat-6-patch-panel-i101412173.html
	CISCO SG95-24 Network Switch	nos	23,165.00	23,165.00	http://www.daraz.com.np/products/cisco-sg95-24-network-switch-i101414163-s1022208119.html
	17" LCD Monitor Samsung or equivalent	nos	11,139.00	11,139.00	Bhaktapur district rate
	Swing Gate Automation system	set	720,000.00	720,000.00	quotation

Air conditioning system, Midea, Malesian or eqv co.

1	1 TR capacity wall mounted split type Air Conditioning System	Set	56,900.00	56,900.00	kathmandu district rate
2	Stadium Light Pole of Galvanised Steel 20m	set	354368	354368	https://www.indiamart.com/proddetail/stadium-high-mast-lighting-pole-19104897091.html

2. Stadium Floodlights calculation:

Number of floodlight points:	4
Length of 2C 10 sq. mm cable required (m):	650
Total Length of 25mm PVC Conduit:	319

Length of 2C 10 sq. mm cable per point:	162.5
Length of 25mm PVC conduit per point:	79.75

Bill of Quantity

S.No.	Description of Work	Unit	Quantity	Rate	Amount
1	Stadium light point wiring with 10 Sq. mm/equivalent cu cable, bends, PVC FRLS Conduit, circular & Junction boxes	point	4.00	89,135.58	356,542.32
2	Supply, installation, testing of Light fixture, 25-30m mounting Stadium galvanized pole, connection, fixing, testing, commissioning of all required materials as per required norms and guidelines provided in the drawing and IS specifications all complete. A) 4 x (20x400W) Flood Light Post Mounted all complete	set	4.00	1,028,466.90	4,113,867.58
3	DB-LIGHT : Design, fabrication, supply, delivery, installation, testing and commissioning of fully enclosed front door operation double cover, flush mounting following types of Final Distribution Boards F(DBs) fabricated out of 1.6 mm steel sheet having separate compartments for Incoming and Outgoing systems including all fixing and connecting materials as per drawings specification and instructions. Incoming: 125 A TP MCCB, Outgoing: 32 A TP MCB-4 set, Copper Phase Bar, Neutral and Earth bars a) DB-LIGHT (6 Way TPN DB Double Cover)	set	1.00	25,502.11	25,502.11
4	Plate Earthing Set of given Specifications (NEA/IS or equivalent) : each pole indivisually	set	4.00	19,262.50	77,050.00
5	Supply, delivery, laying and connecting of the Armoured/unarmoured power cable including cable sockets, cable tray, pull boxes and necessary materials. chiselling of wall/ floors and redoing the chiselled area with cement & sand mortar as per drawing and site condition all complete. a) 4 core cu. 35 sq. mm. Armoured-15m	LS	1.00	33,634.91	33,634.91
				Total:	4,606,596.93

VAT(13%): 598,857.60

Grand Total: 5,205,454.53

Remarks

Bill of Quantity

S.No.	Description of Work	Unit	Quantity	Rate	Amount
1	Light and Fan point wiring with 2x2.5 Sq. mm/equivalent cu cable, bends, PVC Conduit, circular & Junction boxes all complete	point	197.00	764.75	150,655.75
2	6 pin 16 A general outlet point wiring with 2x4+1x2.5 sq. mm / equivalent cu cable, 5 pin Power Socet, bends, PVC Conduit, circular & Junction Boxes all complete	point	34.00	1,227.05	41,719.70
3	supply of light fixtures, fixing, interconnection, testing and commissioning complete with Holders, CFL, FTL, GLS, electronic ballast, capacitor with all required mounting and fixing accessories as per drawing (Brands: PHILIPS, WIPRO, HOMDEC, FIAM, LEGERO, HIMSTAR or Equivalent) a) 1 x 9W Round LED panel Light	set	32.00	1,151.15	36,836.80
4	supply of light fixtures, fixing, interconnection, testing and commissioning complete with Holders, CFL, FTL, GLS, electronic ballast, capacitor with all required mounting and fixing accessories as per drawing (Brands: PHILIPS, WIPRO, HOMDEC, FIAM, LEGERO, HIMSTAR or Equivalent) a) 1 x 12W LED panel Light	set	26.00	1,284.55	33,398.30
5	supply of light fixtures, fixing, interconnection, testing and commissioning complete with Holders, CFL, FTL, GLS, electronic ballast, capacitor with all required mounting and fixing accessories as per drawing (Brands: PHILIPS, WIPRO, HOMDEC, FIAM, LEGERO, HIMSTAR or Equivalent) a) 1 x 20W Square LED Panel Light 1'x1'	set	20.00	1,629.55	32,591.00
6	supply of light fixtures, fixing, interconnection, testing and commissioning complete with Holders, CFL, FTL, GLS, electronic ballast, capacitor with all required mounting and fixing accessories as per drawing (Brands: PHILIPS, WIPRO, HOMDEC, FIAM, LEGERO, HIMSTAR or Equivalent) a) 1 x 20W LED Tubelight	set	103.00	608.35	62,660.05
7	supply of fan fixtures, fixing, interconnection, testing and commissioning complete with Holders capacitor with all required mounting and fixing accessories as per drawing Fan: Almonard, Bajaj, Crompton Or Equ. a) 75W 48" Ceiling Fan	set	16.00	3,011.85	48,189.60
8	Supply of switches, sockets , 18 SWG GI metal boxes , screw, and other necessary materials with its Installation, Interconnection and commissioning including civil works as per drawing , specification all complete (Brands: Schneider, North-west or equivalent) a)10 A 1 Gang 1 way switch	set	1.00	683.10	683.10
9	Supply of switches, sockets , 18 SWG GI metal boxes , screw, and other necessary materials with its Installation, Interconnection and commissioning including civil works as per drawing , specification all complete (Brands: Schneider, North-west or equivalent) a)10 A 2 Gang 1 way switch	set	4.00	722.20	2,888.80

10	Supply of switches, sockets , 18 SWG GI metal boxes , screw, and other necessary materials with its Installation, Interconnection and commissioning including civil works as per drawing , specification all complete (Brands: Schneider, North-west or equivalent) a) 10 A 3 Gang 1 way switch	set	12.00	762.45	9,149.40
11	Supply of switches, sockets , 18 SWG GI metal boxes , screw, and other necessary materials with its Installation, Interconnection and commissioning including civil works as per drawing , specification all complete (Brands: Schneider, North-west or equivalent) a) 10 A 4 Gang 1 way switch	set	2.00	803.85	1,607.70
12	Supply of switches, sockets , 18 SWG GI metal boxes , screw, and other necessary materials with its Installation, Interconnection and commissioning including civil works as per drawing , specification all complete (Brands: Schneider, North-west or equivalent) a) 10 A 5 Gang 1 way switch	set	8.00	928.05	7,424.40
13	Supply of switches, sockets , 18 SWG GI metal boxes , screw, and other necessary materials with its Installation, Interconnection and commissioning including civil works as per drawing , specification all complete (Brands: Schneider, North-west or equivalent) a) 10 A 6 Gang 1 way switch	set	3.00	928.05	2,784.15
14	Supply of switches, sockets , 18 SWG GI metal boxes , screw, and other necessary materials with its Installation, Interconnection and commissioning including civil works as per drawing , specification all complete (Brands: Schneider, North-west or equivalent) a) 10 A 7 Gang 1 way switch	set	3.00	1,018.90	3,056.70
15	Supply of switches, sockets , 18 SWG GI metal boxes , screw, and other necessary materials with its Installation, Interconnection and commissioning including civil works as per drawing , specification all complete (Brands: Schneider, North-west or equivalent) a) 10 A 8 Gang 1 way switch	set	5.00	1,018.90	5,094.50
16	Supply, delivery, laying and connecting of the Armoured/unarmoured power cable including cable sockets, cable tray, pull boxes and necessary materials. chiselling of wall/ floors and redoing the chiselled area with cement & sand mortar as per drawing and site condition all complete. a)4 core cu. 10 sq. mm. Armoured-20m,2 core cu.10 sq. mm. Armoured-20m,2 core cu.4 sq. mm. Armoured-12m.	LS	1.00	29,376.06	29,376.06
17	Plate Earthing Set of given Specifications (NEA/IS or equivalent) :	set	1.00	19,262.50	19,262.50

18	DB-A&C : Design, fabrication, supply, delivery, installation, testing and commissioning of fully enclosed front door operation double cover, flush mounting following types of Final Distribution Boards F(DBs) fabricated out of 1.6 mm steel sheet having separate compartments for Incoming and Outgoing systems including all fixing and connecting materials as per drawings specification and instructions. Incoming: 32 A TPN MCCB, Outgoing: 32 A SP MCB-2 set, 16 A SP MCB-2 set, Copper Phase Bar, Neutral and Earth bars	set	1.00	12,062.06	12,062.06
19	SDB-0 : Design, fabrication, supply, delivery, installation, testing and commissioning of fully enclosed front door operation double cover, flush mounting following types of Final Distribution Boards F(DBs) fabricated out of 1.6 mm steel sheet having separate compartments for Incoming and Outgoing systems including all fixing and connecting materials as per drawings specification and instructions. Incoming: 16 A DP MCB, Outgoing: 6 A SP MCB-8 set, 16 A SP MCB-3 set, Copper Phase Bar, Neutral and Earth bars a) SDB-0 (16 Way SPN DB Double Cover)	set	1.00	6,419.01	6,419.01
20	SDB-1-1/SDB-1-2 : Design, fabrication, supply, delivery, installation, testing and commissioning of fully enclosed front door operation double cover, flush mounting following types of Final Distribution Boards F(DBs) fabricated out of 1.6 mm steel sheet having separate compartments for Incoming and Outgoing systems including all fixing and connecting materials as per drawings specification and instructions. Incoming: 32 A DP MCB, Outgoing: 6 A SP MCB-7 set, 16 A SP MCB-7 set, Copper Phase Bar, Neutral and Earth bars a) SDB-1-1/SDB-1-2 (16 Way SPN DB Double Cover)	set	2.00	7,005.51	14,011.03
21	SDB-2 : Design, fabrication, supply, delivery, installation, testing and commissioning of fully enclosed front door operation double cover, flush mounting following types of Final Distribution Boards F(DBs) fabricated out of 1.6 mm steel sheet having separate compartments for Incoming and Outgoing systems including all fixing and connecting materials as per drawings specification and instructions. Incoming: 16 A DP MCB, Outgoing: 6 A SP MCB-3 set, 16 A SP MCB-5 set, Copper Phase Bar, Neutral and Earth bars a) SDB-2 (12 Way SPN DB Double Cover)	set	1.00	5,694.51	5,694.51
				Total:	525,565.12

VAT(13%): 68,323.47

Grand Total: 593,888.59

Remarks

Bill of Quantity

S.No.	Description of Work	Unit	Quantity	Rate	Amount
1	Light and Fan point wiring with 2x2.5 Sq. mm/equivalent cu cable, bends, PVC Conduit, circular & Junction boxes all complete	point	8.00	764.75	6,118.00
2	6 pin 16 A general outlet point wiring with 2x4+1x2.5 sq. mm / equivalent cu cable, 5 pin Power Socet, bends, PVC Conduit, circular & Junction Boxes all complete	point	3.00	1,227.05	3,681.15
3	supply of light fixtures, fixing, interconnection, testing and commissioning complete with Holders, CFL, FTL, GLS, electronic ballast, capacitor with all required mounting and fixing accessories as per drawing (Brands: PHILIPS, WIPRO, HOMDEC, FIAM, LEGERO, HIMSTAR or Equivalent) a) 1 x 9W Round LED panel Light	set	1.00	1,151.15	1,151.15
4	supply of light fixtures, fixing, interconnection, testing and commissioning complete with Holders, CFL, FTL, GLS, electronic ballast, capacitor with all required mounting and fixing accessories as per drawing (Brands: PHILIPS, WIPRO, HOMDEC, FIAM, LEGERO, HIMSTAR or Equivalent) a) 1 x 15W wall decor light	set	2.00	1,115.50	2,231.00
5	supply of light fixtures, fixing, interconnection, testing and commissioning complete with Holders, CFL, FTL, GLS, electronic ballast, capacitor with all required mounting and fixing accessories as per drawing (Brands: PHILIPS, WIPRO, HOMDEC, FIAM, LEGERO, HIMSTAR or Equivalent) a) 1 x 20W LED Tubelight	set	1.00	608.35	608.35
6	supply of light fixtures, fixing, interconnection, testing and commissioning complete with Holders, CFL, FTL, GLS, electronic ballast, capacitor with all required mounting and fixing accessories as per drawing (Brands: PHILIPS, WIPRO, HOMDEC, FIAM, LEGERO, HIMSTAR or Equivalent) a) 1 x 50W LED Flood Light	set	3.00	3,257.95	9,773.85
7	supply of fan fixtures, fixing, interconnection, testing and commissioning complete with Holders capacitor with all required mounting and fixing accessories as per drawing Fan: Almonard, Bajaj, Crompton Or Equ. a) 75W 48" Ceiling Fan	set	1.00	3,011.85	3,011.85

8	Supply of switches, sockets , 18 SWG GI metal boxes , screw, and other necessary materials with its Installation, Interconnection and commissioning including civil works as per drawing , specification all complete (Brands: Schneider, North-west or equivalent) a) 10 A 1 Gang 1 way switch	set	1.00	683.10	683.10
9	Supply of switches, sockets , 18 SWG GI metal boxes , screw, and other necessary materials with its Installation, Interconnection and commissioning including civil works as per drawing , specification all complete (Brands: Schneider, North-west or equivalent) a) 10 A 7 Gang 1 way switch	set	1.00	1,018.90	1,018.90
10	Supply, delivery, laying and connecting of the Armoured/unarmoured power cable including cable sockets, cable tray, pull boxes and necessary materials. chiselling of wall/ floors and redoing the chiselled area with cement & sand mortar as per drawing and site condition all complete. a) 2 core cu.4 sq. mm. Armoured	LS	40.00	397.27	15,890.70
11	SDB-Guard: Design, fabrication, supply, delivery, installation, testing and commissioning of fully enclosed front door operation double cover, flush mounting following types of Final Distribution Boards F(DBs) fabricated out of 1.6 mm steel sheet having separate compartments for Incoming and Outgoing systems including all fixing and connecting materials as per drawings specification and instructions. Incoming: 16 A DP MCB, Outgoing: 6 A SP MCB-1 set, 16 A SP MCB-1 set Copper Phase Bar, Neutral and Earth bars a) SDB-Guard (4 Way SPN DB Double Cover)	set	1.00	3,814.26	3,814.26
				Total:	47,982.31

VAT(13%): 6,237.70

Grand Total: 54,220.01

Remarks

Bill of Quantity

S.No.	Description of Work	Unit	Quantity	Rate	Amount
1	Light and Fan point wiring with 2x2.5 Sq. mm/equivalent cu cable, bends, PVC Conduit, circular & Junction boxes all complete	point	8.00	764.75	6,118.00
2	6 pin 16 A general outlet point wiring with 2x4+1x2.5 sq. mm / equivalent cu cable, 5 pin Power Socet, bends, PVC Conduit, circular & Junction Boxes all complete	point	3.00	1,227.05	3,681.15
3	supply of light fixtures, fixing, interconnection, testing and commissioning complete with Holders, CFL, FTL, GLS, electronic ballast, capacitor with all required mounting and fixing accessories as per drawing (Brands: PHILIPS, WIPRO, HOMDEC, FIAM, LEGERO, HIMSTAR or Equivalent) a) 1 x 9W Round LED panel Light	set	1.00	1,151.15	1,151.15
4	supply of light fixtures, fixing, interconnection, testing and commissioning complete with Holders, CFL, FTL, GLS, electronic ballast, capacitor with all required mounting and fixing accessories as per drawing (Brands: PHILIPS, WIPRO, HOMDEC, FIAM, LEGERO, HIMSTAR or Equivalent) a) 1 x 15W wall decor light	set	2.00	1,115.50	2,231.00
5	supply of light fixtures, fixing, interconnection, testing and commissioning complete with Holders, CFL, FTL, GLS, electronic ballast, capacitor with all required mounting and fixing accessories as per drawing (Brands: PHILIPS, WIPRO, HOMDEC, FIAM, LEGERO, HIMSTAR or Equivalent) a) 1 x 20W LED Tubelight	set	1.00	608.35	608.35
6	supply of light fixtures, fixing, interconnection, testing and commissioning complete with Holders, CFL, FTL, GLS, electronic ballast, capacitor with all required mounting and fixing accessories as per drawing (Brands: PHILIPS, WIPRO, HOMDEC, FIAM, LEGERO, HIMSTAR or Equivalent) a) 1 x 50W LED Flood Light	set	3.00	3,257.95	9,773.85
7	supply of fan fixtures, fixing, interconnection, testing and commissioning complete with Holders capacitor with all required mounting and fixing accessories as per drawing Fan: Almonard, Bajaj, Crompton Or Equ. a) 75W 48" Ceiling Fan	set	1.00	3,011.85	3,011.85
8	Supply of switches, sockets , 18 SWG GI metal boxes , screw, and other necessary materials with its Installation, Interconnection and commissioning including civil works as per drawing , specification all complete (Brands: Schneider, North-west or equivalent) a) 10 A 1 Gang 1 way switch	set	1.00	683.10	683.10

9	Supply of switches, sockets , 18 SWG GI metal boxes , screw, and other necessary materials with its Installation, Interconnection and commissioning including civil works as per drawing , specification all complete (Brands: Schneider, North-west or equivalent) a) 10 A 7 Gang 1 way switch	set	1.00	1,018.90	1,018.90
10	Supply, delivery, laying and connecting of the Armoured/unarmoured power cable including cable sockets, cable tray, pull boxes and necessary materials. chiselling of wall/ floors and redoing the chiselled area with cement & sand mortar as per drawing and site condition all complete. a) 2 core cu.4 sq. mm. Armoured	LS	50.00	397.27	19,863.38
11	SDB-Guard: Design, fabrication, supply, delivery, installation, testing and commissioning of fully enclosed front door operation double cover, flush mounting following types of Final Distribution Boards F(DBs) fabricated out of 1.6 mm steel sheet having separate compartments for Incoming and Outgoing systems including all fixing and connecting materials as per drawings specification and instructions. Incoming: 16 A DP MCB, Outgoing: 6 A SP MCB-1 set, 16 A SP MCB-1 set Copper Phase Bar, Neutral and Earth bars a) SDB-Guard (4 Way SPN DB Double Cover)	set	1.00	3,814.26	3,814.26
				Total:	51,954.99

VAT(13%): 6,754.15

Grand Total 58,709.14

Remarks

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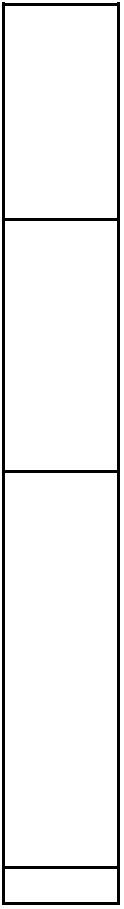
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Bill of Quantity

S.No.	Description of Work	Unit	Quantity	Rate	Amount
1	Light and Fan point wiring with 2x2.5 Sq. mm/equivalent cu cable, bends, PVC Conduit, circular & Junction boxes all complete	point	39.00	764.75	29,825.25
2	6 pin 16 A general outlet point wiring with 2x4+1x2.5 sq. mm / equivalent cu cable, 5 pin Power Somet, bends, PVC Conduit, circular & Junction Boxes all complete	point	4.00	1,227.05	4,908.20
3	supply of light fixtures, fixing, interconnection, testing and commissioning complete with Holders, CFL, FTL, GLS, electronic ballast, capacitor with all required mounting and fixing accessories as per drawing (Brands: PHILIPS, WIPRO, HOMDEC, FIAM, LEGERO, HIMSTAR or Equivalent) a) 1 x 12W LED panel Light	set	7.00	1,284.55	8,991.85
4	supply of light fixtures, fixing, interconnection, testing and commissioning complete with Holders, CFL, FTL, GLS, electronic ballast, capacitor with all required mounting and fixing accessories as per drawing (Brands: PHILIPS, WIPRO, HOMDEC, FIAM, LEGERO, HIMSTAR or Equivalent) a) 1 x 20W LED Bulkhead Light	set	12.00	2,701.35	32,416.20
5	supply of light fixtures, fixing, interconnection, testing and commissioning complete with Holders, CFL, FTL, GLS, electronic ballast, capacitor with all required mounting and fixing accessories as per drawing (Brands: PHILIPS, WIPRO, HOMDEC, FIAM, LEGERO, HIMSTAR or Equivalent) a) 1x 50W Highbay Light Conforming IS 16108	set	4.00	5,990.35	23,961.40
6	supply of light fixtures, fixing, interconnection, testing and commissioning complete with Holders, CFL, FTL, GLS, electronic ballast, capacitor with all required mounting and fixing accessories as per drawing (Brands: PHILIPS, WIPRO, HOMDEC, FIAM, LEGERO, HIMSTAR or Equivalent) a) 1x 200W Linear Highbay Light Conforming IS 16108	set	12.00	13,019.15	156,229.80
7	supply of light fixtures, fixing, interconnection, testing and commissioning complete with Holders, CFL, FTL, GLS, electronic ballast, capacitor with all required mounting and fixing accessories as per drawing (Brands: PHILIPS, WIPRO, HOMDEC, FIAM, LEGERO, HIMSTAR or Equivalent) a) 1 x 15W LED Wall Light	set	3.00	1,115.50	3,346.50

8	supply of light fixtures, fixing, interconnection, testing and commissioning complete with Holders, CFL, FTL, GLS, electronic ballast, capacitor with all required mounting and fixing accessories as per drawing (Brands: PHILIPS, WIPRO, HOMDEC, FIAM, LEGERO, HIMSTAR or Equivalent) a) 11W Mirror Light Set	set	1.00	688.85	688.85
9	Supply of switches, sockets , 18 SWG GI metal boxes , screw, and other necessary materials with its Installation, Interconnection and commissioning including civil works as per drawing , specification all complete (Brands: Schneider, North-west or equivalent) a)10 A 2 Gang 1 way switch	set	4.00	722.20	2,888.80
10	Supply of switches, sockets , 18 SWG GI metal boxes , screw, and other necessary materials with its Installation, Interconnection and commissioning including civil works as per drawing , specification all complete (Brands: Schneider, North-west or equivalent) a) 10 A 3 Gang 1 way switch	set	2.00	762.45	1,524.90
11	Supply of switches, sockets , 18 SWG GI metal boxes , screw, and other necessary materials with its Installation, Interconnection and commissioning including civil works as per drawing , specification all complete (Brands: Schneider, North-west or equivalent) a) 10 A 4 Gang 1 way switch	set	4.00	803.85	3,215.40
12	Supply, delivery, laying and connecting of the Armoured/unarmoured power cable including cable sockets, cable tray, pull boxes and necessary materials. chiselling of wall/ floors and redoing the chiselled area with cement & sand mortar as per drawing and site condition all complete. a)2 core cu.10 sq. mm. Armoured	LS	30.00	461.27	13,837.95
13	Plate Earthing Set of given Specifications (NEA/IS or equivalent) :	set	1.00	19,262.50	19,262.50
14	SDB-Covered Hall: Design, fabrication, supply, delivery, installation, testing and commissioning of fully enclosed front door operation double cover, flush mounting following types of Final Distribution Boards F(DBs) fabricated out of 1.6 mm steel sheet having separate compartments for Incoming and Outgoing systems including all fixing and connecting materials as per drawings specification and instructions. Incoming: 32 A DP MCB, Outgoing: 6 A SP MCB-8 set, 16 A SP MCB-2 set Copper Phase Bar, Neutral and Earth bars a) SDB-Covered Hall (12 Way SPN DB Double Cover)	set	1.00	6,085.51	6,085.51
				Total:	307,183.11

VAT(13%): 39,933.80

Grand Total: 347,116.92

Remarks

Bill of Quantity

S.No.	Description of Work	Unit	Quantity	Rate	Amount	Remarks
1	Light and Fan point wiring with 2x2.5 Sq. mm/equivalent cu cable, bends, PVC Conduit, circular & Junction boxes all complete	point	352.00	764.75	269,192.00	
2	6 pin 16 A general outlet point wiring with 2x4+1x2.5 sq. mm / equivalent cu cable, 5 pin Power Socet, bends, PVC Conduit, circular & Junction Boxes all complete	point	115.00	1,227.05	141,110.75	
3	6 pin 32 A AC outlet point wiring with 2x7/20+1x3/22 sq. mm / equivalent cu cable, AC Socket, bends, PVC Conduit, circular & Junction Boxes all complete	point	5.00	1,394.95	6,974.75	
4	supply of light fixtures, fixing, interconnection, testing and commissioning complete with Holders, CFL, FTL, GLS, electronic ballast, capacitor with all required mounting and fixing accessories as per drawing (Brands: PHILIPS, WIPRO, HOMDEC, FIAM, LEGERO, HIMSTAR or Equivalent) a) 1 x 9W Round LED panel Light	set	101.00	1,151.15	116,266.15	
5	supply of light fixtures, fixing, interconnection, testing and commissioning complete with Holders, CFL, FTL, GLS, electronic ballast, capacitor with all required mounting and fixing accessories as per drawing (Brands: PHILIPS, WIPRO, HOMDEC, FIAM, LEGERO, HIMSTAR or Equivalent) a) 1 x 12W LED panel Light	set	15.00	1,284.55	19,268.25	
6	supply of light fixtures, fixing, interconnection, testing and commissioning complete with Holders, CFL, FTL, GLS, electronic ballast, capacitor with all required mounting and fixing accessories as per drawing (Brands: PHILIPS, WIPRO, HOMDEC, FIAM, LEGERO, HIMSTAR or Equivalent) a) 1 x 15W wall decor light	set	9.00	1,115.50	10,039.50	
7	supply of light fixtures, fixing, interconnection, testing and commissioning complete with Holders, CFL, FTL, GLS, electronic ballast, capacitor with all required mounting and fixing accessories as per drawing (Brands: PHILIPS, WIPRO, HOMDEC, FIAM, LEGERO, HIMSTAR or Equivalent) a) 1 x 20W Square LED Panel Light 1'x1'	set	79.00	1,629.55	128,734.45	

Bill of Quantity

S.No.	Description of Work	Unit	Quantity	Rate	Amount	Remarks
8	supply of light fixtures, fixing, interconnection, testing and commissioning complete with Holders, CFL, FTL, GLS, electronic ballast, capacitor with all required mounting and fixing accessories as per drawing (Brands: PHILIPS, WIPRO, HOMDEC, FIAM, LEGERO, HIMSTAR or Equivalent) a) 1 x 20W LED Tubelight	set	105.00	608.35	63,876.75	
9	supply of fan fixtures, fixing, interconnection, testing and commissioning complete with Holders capacitor with all required mounting and fixing accessories as per drawing Fan: Almonard, Bajaj, Crompton Or Equ. a) 75W 48" Ceiling Fan	set	43.00	3,011.85	129,509.55	
10	Supply of switches, sockets , 18 SWG GI metal boxes , screw, and other necessary materials with its Installation, Interconnection and commissioning including civil works as per drawing , specification all complete (Brands: Schneider, North-west or equivalent) a) 10 A 1 Gang 1 way switch	set	4.00	683.10	2,732.40	
11	Supply of switches, sockets , 18 SWG GI metal boxes , screw, and other necessary materials with its Installation, Interconnection and commissioning including civil works as per drawing , specification all complete (Brands: Schneider, North-west or equivalent) a)10 A 2 Gang 1 way switch	set	25.00	722.20	18,055.00	
12	Supply of switches, sockets , 18 SWG GI metal boxes , screw, and other necessary materials with its Installation, Interconnection and commissioning including civil works as per drawing , specification all complete (Brands: Schneider, North-west or equivalent) a) 10 A 3 Gang 1 way switch	set	20.00	762.45	15,249.00	
13	Supply of switches, sockets , 18 SWG GI metal boxes , screw, and other necessary materials with its Installation, Interconnection and commissioning including civil works as per drawing , specification all complete (Brands: Schneider, North-west or equivalent) a) 10 A 4 Gang 1 way switch	set	14.00	803.85	11,253.90	
14	Supply of switches, sockets , 18 SWG GI metal boxes , screw, and other necessary materials with its Installation, Interconnection and commissioning including civil works as per drawing , specification all complete (Brands: Schneider, North-west or equivalent) a) 10 A 5 Gang 1 way switch	set	6.00	928.05	5,568.30	

Bill of Quantity

S.No.	Description of Work	Unit	Quantity	Rate	Amount	Remarks
15	Supply of switches, sockets , 18 SWG GI metal boxes , screw, and other necessary materials with its Installation, Interconnection and commissioning including civil works as per drawing , specification all complete (Brands: Schneider, North-west or equivalent) a) 10 A 6 Gang 1 way switch	set	12.00	928.05	11,136.60	
16	Supply of switches, sockets , 18 SWG GI metal boxes , screw, and other necessary materials with its Installation, Interconnection and commissioning including civil works as per drawing , specification all complete (Brands: Schneider, North-west or equivalent) a) 10 A 7 Gang 1 way switch	set	4.00	1,018.90	4,075.60	
17	Supply of switches, sockets , 18 SWG GI metal boxes , screw, and other necessary materials with its Installation, Interconnection and commissioning including civil works as per drawing , specification all complete (Brands: Schneider, North-west or equivalent) a) 10 A 8 Gang 1 way switch	set	5.00	1,018.90	5,094.50	
18	Supply, delivery, laying and connecting of the Armoured/unarmoured power cable including cable sockets, cable tray, pull boxes and necessary materials. chiselling of wall/ floors and redoing the chiselled area with cement & sand mortar as per drawing and site condition all complete. a) 3.5c 150 sqmm XLPE Armoured cu. cable-10m, 4 core cu. 16 sq. mm. Armoured-10m, 4 core cu. 10 sq. mm. Armoured-8m, cable tray 515x50 sq mm-10m.	LS	1.00	159,854.60	159,854.60	
19	Plate Earthing Set of given Specifications (NEA/IS or equivalent) :	set	1.00	19,262.50	19,262.50	
20	Main Panel Board (MPB): Supply, Delivery, installation and Commissioning of the 300A Panel Board 12"x52"x66" with Copper busbar and hardware , 250A TPN MCCB-1 set, 125A TP MCCB-1 set, 63A TP MCCB-1 set, 32A TP MCCB-2 set Electronic Digital Voltmeter, Electronic Digital Load Meter and CTs-3 Set, Indication LED Light copper Busbar with all required 400 Volt Grade Bus insulator, Colour Bus Sleeve, Power and Control Cable Lugs/Socket, Terminal Block, Panel Wiring materials etc. all Complete	set	1.00	122,076.53	122,076.53	

Bill of Quantity

S.No.	Description of Work	Unit	Quantity	Rate	Amount	Remarks
21	DB-A : Design, fabrication, supply, delivery, installation, testing and commissioning of fully enclosed front door operation double cover, flush mounting following types of Final Distribution Boards F(DBs) fabricated out of 1.6 mm steel sheet having separate compartments for Incoming and Outgoing systems including all fixing and connecting materials as per drawings specification and instructions. Incoming: 63 A TPN MCCB, Outgoing: 40 A TP MCCB-1 set, 32 A TP MCCB-1 set, Copper Phase Bar, Neutral and Earth bars a) DB-A (4 Way TPN DB Double Cover)	set	1.00	24,700.56	24,700.56	
22	SDB-0 : Design, fabrication, supply, delivery, installation, testing and commissioning of fully enclosed front door operation double cover, flush mounting following types of Final Distribution Boards F(DBs) fabricated out of 1.6 mm steel sheet having separate compartments for Incoming and Outgoing systems including all fixing and connecting materials as per drawings specification and instructions. Incoming: 40 A TP MCB, Outgoing: 16 A TP MCB-2 set, 32 A TP MCB-1 set, Copper Phase Bar, Neutral and Earth bars a) SDB-0 (6 Way TPN DB Double Cover)	set	1.00	11,000.61	11,000.61	
23	SDB-1 : Design, fabrication, supply, delivery, installation, testing and commissioning of fully enclosed front door operation double cover, flush mounting following types of Final Distribution Boards F(DBs) fabricated out of 1.6 mm steel sheet having separate compartments for Incoming and Outgoing systems including all fixing and connecting materials as per drawings specification and instructions. Incoming: 32 A TP MCB, Outgoing: 32 A SP MCB-3 set, Copper Phase Bar, Neutral and Earth bars a) SDB-1 (4 Way TPN DB Double Cover)	set	1.00	6,620.26	6,620.26	
24	SDB-0-0 : Design, fabrication, supply, delivery, installation, testing and commissioning of fully enclosed front door operation double cover, flush mounting following types of Final Distribution Boards F(DBs) fabricated out of 1.6 mm steel sheet having separate compartments for Incoming and Outgoing systems including all fixing and connecting materials as per drawings specification and instructions. Incoming: 16 A TP MCB, Outgoing: 6 A SP MCB-12 set, 16 A SP MCB-6 set, Copper Phase Bar, Neutral and Earth bars a) SDB-0-0 (6 Way TPN DB Double Cover)	set	1.00	15,545.41	15,545.41	

Bill of Quantity

S.No.	Description of Work	Unit	Quantity	Rate	Amount	Remarks
25	SDB-0-1: Design, fabrication, supply, delivery, installation, testing and commissioning of fully enclosed front door operation double cover, flush mounting following types of Final Distribution Boards F(DBs) fabricated out of 1.6 mm steel sheet having separate compartments for Incoming and Outgoing systems including all fixing and connecting materials as per drawings specification and instructions. Incoming: 16 A TP MCB, Outgoing: 6 A SP MCB-9 set, 16 A SP MCB-12 set, Copper Phase Bar, Neutral and Earth bars a) SDB-0-1 (8 Way TPN DB Double Cover)	set	1.00	13,848.01	13,848.01	
26	SDB-0-2: Design, fabrication, supply, delivery, installation, testing and commissioning of fully enclosed front door operation double cover, flush mounting following types of Final Distribution Boards F(DBs) fabricated out of 1.6 mm steel sheet having separate compartments for Incoming and Outgoing systems including all fixing and connecting materials as per drawings specification and instructions. Incoming: 32 A TP MCB, Outgoing: 6 A SP MCB-10 set, 16 A SP MCB-12 set, 25 A SP MCB-3 set, Copper Phase Bar, Neutral and Earth bars a) SDB-0-2 (10 Way TPN DB Double Cover)	set	1.00	16,913.91	16,913.91	
27	SDB-1-0: Design, fabrication, supply, delivery, installation, testing and commissioning of fully enclosed front door operation double cover, flush mounting following types of Final Distribution Boards F(DBs) fabricated out of 1.6 mm steel sheet having separate compartments for Incoming and Outgoing systems including all fixing and connecting materials as per drawings specification and instructions. Incoming: 32 A DP MCB, Outgoing: 6 A SP MCB-4 set, 16 A SP MCB-6 set, Copper Phase Bar, Neutral and Earth bars a) SDB-1-0 (12 Way SPN DB Double Cover)	set	1.00	8,431.51	8,431.51	
28	SDB-1-1: Design, fabrication, supply, delivery, installation, testing and commissioning of fully enclosed front door operation double cover, flush mounting following types of Final Distribution Boards F(DBs) fabricated out of 1.6 mm steel sheet having separate compartments for Incoming and Outgoing systems including all fixing and connecting materials as per drawings specification and instructions. Incoming: 32 A DP MCB, Outgoing: 6 A SP MCB-5 set, 16 A SP MCB-8 set, Copper Phase Bar, Neutral and Earth bars a) SDB-1-1 (16 Way SPN DB Double Cover)	set	1.00	6,810.01	6,810.01	

Bill of Quantity

S.No.	Description of Work	Unit	Quantity	Rate	Amount	Remarks
29	SDB-1-2: Design, fabrication, supply, delivery, installation, testing and commissioning of fully enclosed front door operation double cover, flush mounting following types of Final Distribution Boards F(DBs) fabricated out of 1.6 mm steel sheet having separate compartments for Incoming and Outgoing systems including all fixing and connecting materials as per drawings specification and instructions. Incoming: 32 A DP MCB, Outgoing: 6 A SP MCB-4 set, 16 A SP MCB-5 set, 25 A SP MCB-2 set, Copper Phase Bar, Neutral and Earth bars a) SDB-1-2 (16 Way SPN DB Double Cover)	set	1.00	6,419.01	6,419.01	
30	Supply, fixing, interconnection, testing and commissioning complete with all required wall Split type 1 ton AC automatic digital control hot and cold dust and rust free with automatic power stabilizer complete: Brand:Panasonic, Malaysian, whirlpool or equivalent	set	5.00	56,900.00	284,500.00	
				Total:	1,654,120.39	

VAT(13%): 215,035.65

Grand Total: 1,869,156.04

Bill of Quantity

S.No.	Description of Work	Unit	Quantity	Rate	Amount
1	Supply, Installation, testing, commissioning and erection of Fully Enclosed type 200 KVA, 400 Volt, 3 Phase, 50 Hz standby Diesel Generator set of approved make with all ancillary equipments [base frame coupling, coupling guard, AMF, Control panel, exhaust pipe with arrangements, Piping system, Day tank, canopy, battery its charger RCC Pad & dampers etc.] for the DG set with 250A ATS, chemical earthing and all complete as per IS or NEA specification.	set	1	2,836,941.22	2,836,941.22
2	Supply, Installation, Testing & Commissioning of Outdoor Type 200 kVA, 11/0.4 kV, 3 phase, 50 Hz, ONAN Manufactured by NS and ISO certified Holders as per IEC specifications. It should be tested in laboratory recognized by Nepal Electricity Authority(NEA).	set	1	1,109,462.50	1,109,462.50
3	Supply, Installation, Testing & Commissioning with two Galvanised steel tubular pole 11m conforming to BS6323 or IS 2713 and necessary cross arm, 11 kV Metering & Tapping Arrangement from existing 11 kV distribution line & accessories fitted with all type of platform channel, DO Fuse, pole mounted Panel Board 250 A TP MCCB", 0.05 sq inch Dog type ACSR conductor(3X5m (LS)), and all Accessories complete conforming IS specification/equivalent, drawings & instructions and as approved by NEA.	set	1	216,939.45	216,939.45
4	Supply, Installation, Testing & Commissioning of Lightning Arrestor 3phase with 0.5KV and 11KV lightning arrestor set with stay set and complete accessories as per specification and as per approved by Nepal Electricity Authority(NEA).	set	1	19,631.08	19,631.08
5	Individual Earthing for Lightning arrestor, transformer neutral and transformer body for charging & discharging all Accessories complete as per specification, drawings & instructions. Earthing resistance should not be more than 5 ohm. Approved by NEA	set	3	19,262.50	57,787.50
				Total:	4,240,761.75

VAT(13%): 551,299.03

Grand Total: 4,792,060.77

Summary of Estimate (Electrical and Allied Works)

SN	<u>PARTICULARS</u>	QTY	UNIT	RATE	AMOUNT
1	STADIUM FLOOD LIGHTING	1	Job	4,606,597	4606596.929
2	BLOCK A&C	1	Job	525,565	525565.1225
3	BLOCK B	1	Job	1,654,120	1654120.388
4	COVERED HALL	1	Job	307,183	307183.1125
5	TICKET ROOM	1	Job	51,955	51954.9875
6	GUARD HOUSE	1	Job	47,982	47982.3125
7	HT,LT, GENERATOR,TRANSFORMER WORKS	1	Job	4,240,762	4240761.747
				Total =	11434164.6
				VAT	1486441.398
				Grand Total	12920606

REMARKS

LUX CALCULATION

Block	S.N.	TYPES OF SPACE	AREA (m ²)	REQUIRED LUX	BULB EFFICIENCY	BULB LUMEN	BULB WATTAGE	μ _m	μ _u	N _O . OF LUMINARIES
Stadium	1	Towel Room and side area	97.57	200	100	2000	20	0.85	0.85	13.50
	2	Coaches Room	10.72	200	100	2000	20	0.85	0.85	1.48
	3	Refree Room	8.37	200	100	2000	20	0.85	0.85	1.16
	4	Physio Room	50.13	200	100	2000	20	0.85	0.85	6.94
	5	Feedback Area	86	200	100	2000	20	0.85	0.85	11.90
	6	Dopping control center	76.9	200	100	2000	20	0.85	0.85	10.64
	7	Media/Photography	27.38	200	100	2000	20	0.85	0.85	3.79
	8	Match deligate office&Loung	86.52	200	100	2000	20	0.85	0.85	11.98
	9	Meeting Room	47.7	200	100	2000	20	0.85	0.85	6.60
	10	Fifa official	26	200	100	2000	20	0.85	0.85	3.60
	11	Office1	86.69	200	100	2000	20	0.85	0.85	12.00
	12	Office2	161.23	200	100	2000	20	0.85	0.85	22.32
	13	Office3	107.32	200	100	2000	20	0.85	0.85	14.85
A&C	1	Front Parking Area	565.21	70	100	2000	20	0.85	0.85	27.38
	2	Back Parking Area	450	70	100	2000	20	0.85	0.85	21.80
	3	Block C parking	250	70	100	2000	20	0.85	0.85	12.11
	4	Kitchen	36.83	250	100	2000	20	0.85	0.85	6.37
	5	Café	108.9	300	100	2000	20	0.85	0.85	22.61
	6	Commentator room	85.91	200	100	2000	20	0.85	0.85	11.89
	7	Rental Space2	146.5	200	100	2000	20	0.85	0.85	20.28
	8	Rental Space1	27.38	200	100	2000	20	0.85	0.85	3.79
Covered Ha	-	1 Varandah	6.6	150	100	1200	12	0.8	0.8	1.29
	-	2 Changing Room1	3.0535	150	100	1200	12	0.6	0.6	1.06
	-	3 Store	3.2085	150	100	1200	12	0.6	0.6	1.11
	-	4 Changing Room2	4.4485	150	100	1200	12	0.6	0.6	1.54
	-	5 Stage	24.36	300	100	5000	50	0.6	0.6	4.06
	-	6 Badminton Court	152	500	100	20000	200	0.6	0.6	10.56
FIELD	FLOOD LIGHT	Ground	11000	500	100	40000	400			123.75

STADIUM LOAD CALCULATION

STADIUM DBs		Electrical Loads			Apparent Power, kVA	Ku	Apparent Power Demand, kVA	Ks	Apparent Power Demand, kVA	Ks	Apparent Power Demand, kVA	Ks	Apparent Power Demand, kVA	Ks	Total Apparent Power Demand kVA	Size of Main MCCB, A	Total Size of sub MCCB, A	Size of Floor DBs MCCB, A	
		Qty	Wattage, W	P.F															
BLOCK B	SDB-0	SDB 0-1	LED Panel Surface type 1x1	21	20	0.9	0.47	1.00	0.47	1.00	0.47	0.90	6.24	0.95	26.58		9.05		
			LED Panel Surface type 1x1	3	12	0.9	0.04	1.00	0.04	1.00	0.04								
			LED Panel Surface type 1x1	43	9	0.9	0.43	1.00	0.43	1.00	0.43								
			Mirror Light	0	11	0.9	0.00	1.00	0.00	1.00	0.00								
			Wall Light	4	15	0.9	0.07	1.00	0.07	1.00	0.07								
			LED Tubelight	12	20	0.9	0.27	1.00	0.27	1.00	0.27								
			Ceiling Fan	7	75	0.9	0.58	1.00	0.58	1.00	0.58								
			AC socket	0	1200	0.85	0.00	0.90	0.00	0.60	0.00								
		Single Phase Socket Outlet 15 A	16	1000	0.85	18.82	0.90	16.94	0.30	5.08									
		SDB 0-2	LED Panel Surface type 1x1	23	20	0.9	0.51	1.00	0.51	1.00	0.51								
			LED Panel Surface type 1x1	3	12	0.9	0.04	1.00	0.04	1.00	0.04								
			LED Panel Surface type 1x1	18	9	0.9	0.18	1.00	0.18	1.00	0.18								
			Mirror Light	0	11	0.9	0.00	1.00	0.00	1.00	0.00								
			Wall Light	1	15	0.9	0.02	1.00	0.02	1.00	0.02								
			LED Tubelight	23	20	0.9	0.51	1.00	0.51	1.00	0.51								
			Ceiling Fan	7	75	0.9	0.58	1.00	0.58	1.00	0.58								
			AC socket	0	1200	0.85	0.00	0.90	0.00	0.60	0.00								
		Single Phase Socket Outlet 15 A	23	1000	0.85	27.06	0.90	24.35	0.30	7.31									
		SDB 0-3	LED Panel Surface type 1x1	8	20	0.9	0.18	1.00	0.18	1.00	0.18								
			LED Panel Surface type 1x1	2	12	0.9	0.03	1.00	0.03	1.00	0.03								
			LED Panel Surface type 1x1	26	9	0.9	0.26	1.00	0.26	1.00	0.26								
			Mirror Light	0	11	0.9	0.00	1.00	0.00	1.00	0.00								
			Wall Light	4	15	0.9	0.07	1.00	0.07	1.00	0.07								
			LED Tubelight	32	20	0.9	0.71	1.00	0.71	1.00	0.71								
	Ceiling Fan		14	75	0.9	1.17	1.00	1.17	1.00	1.17									
	AC socket		3	1200	0.85	4.24	0.90	3.81	0.97	3.70									
	Single Phase Socket Outlet 15 A	28	1000	0.85	32.94	0.90	29.65	0.30	8.89										
	SDB-1	SDB 1-1	LED Panel Surface type 1x1	6	20	0.9	0.13	1.00	0.13	1.00	0.13	0.90	5.09	0.95	17.65		22.12		
			LED Panel Surface type 1x1	3	12	0.9	0.04	1.00	0.04	1.00	0.04								
			LED Panel Surface type 1x1	7	9	0.9	0.07	1.00	0.07	1.00	0.07								
			Mirror Light	0	11	0.9	0.00	1.00	0.00	1.00	0.00								
			Wall Light	0	15	0.9	0.00	1.00	0.00	1.00	0.00								
			LED Tubelight	14	20	0.9	0.31	1.00	0.31	1.00	0.31								
			Ceiling Fan	4	75	0.9	0.33	1.00	0.33	1.00	0.33								
			AC socket	0	1200	0.85	0.00	0.90	0.00	0.60	0.00								
			Single Phase Socket Outlet 15 A	15	1000	0.85	17.65	0.90	15.88	0.30	4.76								
			SDB 1-2	LED Panel Surface type 1x1	4	20	0.9	0.09	1.00	0.09	1.00								0.09
				LED Panel Surface type 1x1	2	12	0.9	0.03	1.00	0.03	1.00								0.03
				LED Panel Surface type 1x1	0	9	0.9	0.00	1.00	0.00	1.00								0.00
		Mirror Light		0	11	0.9	0.00	1.00	0.00	1.00	0.00								
		Wall Light		0	15	0.9	0.00	1.00	0.00	1.00	0.00								
		LED Tubelight		24	20	0.9	0.53	1.00	0.53	1.00	0.53								
		Ceiling Fan		7	75	0.9	0.58	1.00	0.58	1.00	0.58								
		AC socket		0	1200	0.85	0.00	0.90	0.00	0.60	0.00								
		Single Phase Socket Outlet 15 A		21	1000	0.85	24.71	0.90	22.24	0.30	6.67								
		SDB 1-3		LED Panel Surface type 1x1	17	20	0.9	0.38	1.00	0.38	1.00						0.38		
				LED Panel Surface type 1x1	2	12	0.9	0.03	1.00	0.03	1.00						0.03		
				LED Panel Surface type 1x1	7	9	0.9	0.07	1.00	0.07	1.00						0.07		
Mirror Light			0	11	0.9	0.00	1.00	0.00	1.00	0.00									
Wall Light			0	15	0.9	0.00	1.00	0.00	1.00	0.00									
LED Tubelight			0	20	0.9	0.00	1.00	0.00	1.00	0.00									
Ceiling Fan	4		75	0.9	0.33	1.00	0.33	1.00	0.33										
AC socket	2		1200	0.85	2.82	0.90	2.54	0.97	2.46										
Single Phase Socket Outlet 15 A	12	1000	0.85	14.12	0.90	12.71	0.30	3.81											
SDB 0	LED Panel Surface type 1x1	0	20	0.9	0.00	1.00	0.00	1.00	0.00	0.90	3.13			0.97	166.52	241.33	13.61		
	LED Panel Surface type 1x1	3	12	0.9	0.04	1.00	0.04	1.00	0.04										
	LED Panel Surface type 1x1	0	9	0.9	0.00	1.00	0.00	1.00	0.00										
	Mirror Light	0	11	0.9	0.00	1.00	0.00	1.00	0.00										
	Wall Light	0	15	0.9	0.00	1.00	0.00	1.00	0.00										
	LED Tubelight	69	20	0.9	1.53	1.00	1.53	1.00	1.53										
	Ceiling Fan	0	75	0.9	0.00	1.00	0.00	1.00	0.00										

