

THE PEOPLE'S REPUBLIC OF BANGLADESH  
DETAILED DESIGN REPORT  
ON  
CONSTRUCTION PROJECT  
OF  
AUTOMOBILE REPAIR & MAINTENANCE WORKSHOP  
VOLUME-5

OCTOBER 1978

Japan International Cooperation Agency

M.P.I.

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國際協力事業團	
輸入 月日 53.11.22	2001
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国際協力事業団

1802/

# CONSTRUCTION COST





AUTOMOBILE REPAIR & MAINTENANCE WORKSHOP (TOTAL COST)

	Phase-I	Phase-II	Phase-III	Total (Thousand-Yen)	Remark
Building Work	2,063,073 (US\$11,335,565)	313,849 (US\$1,724,445)	286,281 (US\$1,572,972)	2,663,203 (US\$14,632,982)	
Electrical Installation Work	328,080 (US\$1,802,637)	25,938 (US\$142,516)	16,828 (US\$92,461)	370,846 (US\$2,037,614)	
Cooling & Ventilating Installation Work	24,354 (US\$133,813)		5,348 (US\$29,384)	29,702 (US\$163,197)	
Plumbing Installation Work	199,848 (US\$1,098,065)	26,879 (US\$147,687)	18,674 (US\$102,604)	245,401 (US\$1,348,355)	
Crane Installation Work	36,854 (US\$202,494)			36,854 (US\$202,494)	
Furniture	84,068 (US\$461,912)	2,839 (US\$15,598)	2,255 (US\$12,390)	89,162 (US\$489,900)	
Machine	1,603,356 (US\$8,809,648)	245,639 (US\$1,349,664)	127,426 (US\$700,142)	1,976,421 (US\$10,859,454)	
Grand Total	4,339,633 (US\$23,844,134)	615,144 (US\$3,379,904)	456,812 (US\$2,509,953)	5,411,589 (US\$29,733,996)	

Exchange Rate: 1 U.S.\$ = 182 Japanese Yen

AUTOMOBILE REPAIR & MAINTENANCE WORKSHOP (DIRECT CONSTRUCTION)

	Phase-I	Phase-II	Phase-III	Total (Thousand-Yen)	Remark
Building Work	1,216,435 (US\$6,683,708)	166,234 (US\$913,373)	144,295 (US\$792,829)	1,526,964 (US\$8,389,910)	
Electrical Installation Work	193,444 (US\$1,062,879)	13,739 (US\$75,489)	8,482 (US\$46,604)	215,669 (US\$1,184,972)	
Cooling & Ventilating Installation Work	14,360 (US\$78,901)		2,697 (US\$14,818)	17,057 (US\$93,719)	
Plumbing Installation Work	117,835 (US\$647,445)	14,237 (US\$78,225)	9,413 (US\$51,719)	141,485 (US\$777,389)	
Crane Installation Work	21,730 (US\$119,395)			21,730 (US\$119,395)	
Furniture	49,569 (US\$272,357)	1,504 (US\$8,263)	1,137 (US\$6,247)	52,210 (US\$286,867)	
Machine	945,375 (US\$5,194,368)	130,106 (US\$714,868)	64,227 (US\$352,895)	1,139,708 (US\$6,262,131)	
<b>Grand Total</b>	<b>2,558,748 (US\$14,059,053)</b>	<b>325,820 (US\$1,790,218)</b>	<b>230,251 (US\$1,265,112)</b>	<b>3,114,819 (US\$17,114,383)</b>	

Phase - I	Building Work	Electrical Installation Work	Cooling & Ventilating Installation Work	Plumbing Installation Work	Crane Installation Work	Furniture	Machine	Total (Thousand-Yen)
1 General Office	94,994	7,308	736	4,900		17,180		125,118 (US\$ 687,461)
2 Class Room	52,453	4,943		3,290		7,631		68,317 (US\$ 375,368)
3 Dormitory	67,902	5,793	1,275	12,748		9,623		97,341 (US\$ 534,840)
4 Cafeteria	48,269	4,481	3,543	18,084		8,226		82,603 (US\$ 453,862)
5 Training Room	83,816	5,646		2,312	5,470		104,888	202,132 (US\$1,110,615)
6 Check Gate	6,876	1,432	30	1,650		1,433		11,421 (US\$ 62,752)
7 Compressor House	4,056	979		1,681			22,158	28,874 (US\$ 158,648)
8 Heavy Repair Factory	372,778	15,303	1,532	14,748	13,760	3,313	405,397	826,831 (US\$4,543,027)
9 Parts Storage	134,162	4,701	4,584	277		1,431	29,275	174,430 (US\$ 958,406)
10 Retreading and Metal Casting	131,107	6,161	975	9,034		732	274,675	422,684 (US\$2,322,439)
11 Car Washer	6,073			629			25,524	32,226 (US\$ 177,065)
12 Paint, Grease & Oil Storage	7,073	268						7,341 (US\$ 40,335)
13 Sub-Station	6,005	1,147						81,093 (US\$ 445,565)
14 Watchman Station	2,645	73,941						2,645 (US\$ 14,532)
15 Gas Station	1,756						7,669	9,425 (US\$ 51,785)

Phase - I	Building Work	Electrical Installation Work	Cooling & Ventilating Installation Work	Plumbing Installation Work	Crane Installation Work	Furniture	Machine	Total (Thousand-Yen)
16 Exterior Work	149,378	30,580		39,015				229,325 (US\$1,260,027)
17 Spare Parts	1,632	3,416	1,001	1,225			40,349	47,623 (US\$ 261,664)
18 Supervisor (M)	45,460	5,100 9,183(M)	684(M)	10,952(M)	2,500		35,440	109,319 (US\$ 600,653)
Sub-Total	1,216,435	193,444	14,360	117,835	21,730	49,569	945,375	2,558,748 (US\$14,059,044)
Marine Transportation Expenses, Common Temporary Expenses, Preparatory Expenses, General Caretaking Expenses	729,861	116,066	8,616	70,701	13,038	29,741	567,225	1,535,248 (US\$8,435,428)
Contingencies	116,777	18,570	1,378	11,312	2,086	4,758	90,756	245,637 (US\$1,349,653)
Grand Total	2,063,073	328,080	24,354	199,848	36,854	84,068	1,603,356	4,339,633 (US\$23,844,137)

Remarks: (M) - Miscellaneous Expenses

Phase - II	Building Work	Electrical Installation Work	Cooling & Ventilating Installation Work	Plumbing Installation Work	Crane Installation Work	Furniture	Machine	Total (Thousand-Yen)
1 Inspection Factory	38,856	3,405	1,617			679	22,005	65,562 (US\$ 360,230)
2 Periodical Repair Factory	115,699	8,080	6,697			825	80,035	211,336 (US\$1,161,186)
Exterior Work		1,600	1,429					3,029 (US\$ 16,642)
Spare Parts	279						13,426	13,705 (US\$ 75,302)
Supervisor	11,400	(T) 654	(T) 4,494				14,640	31,188 (US\$ 171,362)
Sub-Total	166,234	13,739	14,237			1,504	130,106	325,820 (US\$1,784,722)
Marine Transportation Expenses, Common Temporary Expenses, Preparatory Expenses, General Caretaking Expenses	99,740	8,243	8,542			902	78,063	195,490 (US\$1,074,120)
Contingencies	47,875	3,956	4,100			433	37,470	93,834 (US\$ 515,571)
Grand Total	313,849	25,938	26,879			2,839	245,639	615,144 (US\$3,374,413)

Remarks: (M) Miscellaneous Expenses (T) Tool

Phase - III	Building Work	Electrical Installation Work	Cooling & Ventilating Installation Work	Plumbing Installation Work	Crane Installation Work	Furniture	Machine	Total (Thousand-Yen)
Paint & Body Factory	137,335	7,169	2,558	4,924		1,137	50,411	203,534 (US\$1,118,318)
Exterior Work		910		224				1,134 (US\$ 6,230)
Spare Parts	300		10				4,056	4,366 (US\$ 23,989)
Supervisor (M)	6,600	(M) 403	(M) 128	(T) 2,465			9,760	21,216 (US\$ 116,571)
Sub-Total	144,295	8,482	2,696	9,413		1,137	64,227	230,250 (US\$1,265,108)
Marine Transportation Expenses, Common Temporary Expenses, Preparatory Expenses, General Caretaking Expenses	86,577	5,089	1,619	5,647		682	38,536	138,148 (US\$ 759,054)
Contingencies	55,409	3,257	1,035	3,614		436	24,663	88,414 (US\$ 485,791)
Grand Total	286,281	16,828	5,348	18,674		2,255	127,426	456,812 (US\$2,509,953)

Remarks: (M) Miscellaneous Expenses (T) Tool

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	AUTOMOBILE REPAIR & MAINTENANCE WORKSHOP (BUILDING WORK)					
1	Phase - I work				1,216,443,325	
2	Phase - II work				166,236,080	
3	Phase - III work				144,295,800	
	Total				1,526,975,205	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	PHASE - I WORK					
	(Item)					
1	General office building				94,994,850	
2	Class-room & office building				52,453,630	
3	Dormitory				67,902,150	
4	Cafeteria				48,269,840	
5	Training room				83,816,130	
6	Check gate				6,876,400	
7	Air compressor house				4,056,300	
8	Heavy repair factory				372,778,110	
9	Parts storage				134,162,910	
10	Retreading & metal casting factory				131,107,920	
11	Car washer				6,073,100	
12	Paint grease & oil storage				7,073,900	
13	Sub station				6,005,000	
14	Watchman station				2,645,680	
15	Gas station				1,756,600	
16	Exterior work				149,378,555	



NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Sub-Total				1,169,351,075	
17	Spare parts				1,632,250	
18	Sending of supervisor				45,460,000	
	Total				1,216,443,325	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
1	GENERAL OFFICE					
1-1	Temporary work	Set	1		3,151,610	
1-2	Earth work	"	1		1,271,340	
1-3	Piling work	"	1		14,320,000	
1-4	Concrete work	"	1		20,247,560	
1-5	Reinforcement work	"	1		8,608,140	
1-6	Steel work	"	1		1,069,750	
1-7	Brick masonry	"	1		6,417,400	
1-8	Terrazzo work	"	1		4,230,850	
1-9	Tile work	"	1		722,500	
1-10	Carpentry & joinery	"	1		1,819,500	
1-11	Metal work	"	1		1,839,250	
1-12	Plastering work	"	1		3,304,750	
1-13	Metal doors & windows	"	1		20,961,200	
1-14	Wood doors & windows	"	1		839,900	
1-15	Glass work	"	1		1,214,200	
1-16	Painting work	"	1		2,881,500	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Interior furnishing	Set	1		1,240,400	
	Miscellaneous work	"	1		855,000	
	Total				94,994,850	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
1-1	TEMPORARY WORK					
	Leveling	Set	1		70,950	
	Marking	"	1		349,000	
	Full size template	"				
	Scaffold (Outer)	"	1		843,780	
	Scaffold board, 3F M-12.35m	Place	1		150,000	
	Scaffold (Inner)	Set	1		279,200	
	Curing	"	1		335,040	
	Arrangement and cleaning	"	1		823,640	
	Loading test	"	1		300,000	
	Sub-Total				3,151,610	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
1-2	EARTH WORK					
	Excavation	m <sup>3</sup>	1,104.0	110	121,440	
	Backfilling	"	699.0	110	76,890	
	Removal of extra soil	"	461.0	110	50,710	
	Sand leveling (For foundation)	m <sup>2</sup>				
	Sand leveling (For berm)	"	98.0	350	34,300	
	Sand leveling (For slab on the earth)	"	446.0	350	156,100	
	Brick soling (For foundation)	"	680	600	408,000	
	Brick soling (For berm)	"	149	600	89,400	
	Brick soling (For slab on the earth)	"	446	600	267,600	
	Polyethylene film	"	446.0	150	66,900	
	Sub-Total				1,271,340	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
1-3	PILING WORK Concrete pile (Aggregate & labor) $\phi$ 400 Reinforcement Cement Bentonite	m t " "	1,896 27.2 95.2 5.2	6,000 62,000 13,000 35,000	11,214,000 1,686,400 1,237,600 182,000	
	Sub-Total				14,320,000	

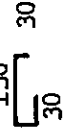
NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
1-4	CONCRETE WORK					
	Leveling concrete	m <sup>3</sup>	23,0	11,100	255,300	
	Concrete (For slab on the earth)	"	44,6	11,100	495,060	
	Reinforced concrete	"	817.2	11,100	9,070,920	
	Concrete (Miscellaneous)	"	20,6	11,100	228,660	
	Form	m <sup>2</sup>	5,825.4	1,700	9,903,180	
	Form (Miscellaneous)	"	173.2	1,700	294,440	
	Transportation	Set				
	Sub-Total				20,247,560	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
1-5	REINFORCEMENT WORK					
	Deformed reinforcement, D10 SD30	t	33,00	68,000	2,244,000	
	Deformed reinforcement, D10 (Miscellaneous)	"	4,34	68,000	301,240	
	Deformed reinforcement, D13 (Miscellaneous)	"	10.38	66,000	685,080	
	Deformed reinforcement, D13 (Miscellaneous)	"	0.7	66,000	46,200	
	Deformed reinforcement, D16 - D25 (Miscellaneous)	"	53.21	62,000	3,299,020	
	Labor of handling assembly	"	101,63	20,000	2,032,600	
	Sub-Total				8,608,140	



NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
1-6	STEEL WORK					
	Steel	t	4.0	84,500	338,000	
	Labor of handling assembly	"	4.0	130,000	520,000	
	Erection	"	4.0	11,000	44,000	
	Painting (O.P.)	m <sup>2</sup>	135.0	650	87,750	
	Transportation	Set	1		80,000	
	Sub-Total				1,069,750	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
1-7	BRICK MASONRY					
	Brick laying (wall) (Ornamental)	m <sup>3</sup>	41	20,000	820,000	
	" " (W=241)	"	266	17,500	4,655,000	
	" " (W=115)	"	28.7	17,500	502,250	
	Brick flooring (Floor)	"	18.3	17,500	320,250	
	Brick laying (Baseboard)	"	0.48	17,500	8,400	
	Brick laying (Window sill)	m	223	500	111,500	
	Sub-Total				6,417,400	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
1-8	TERRAZZO WORK					
	Terrazzo block (Floor)	m <sup>2</sup>	957	3,200	3,062,400	
	" " (Run, rise)	"	43	3,500	150,500	
	Terrazzo block (Window board) (W=150)	m	22.7	4,000	90,800	
	Terrazzo block (Separate board)	m <sup>2</sup>	19.6	25,000	490,000	
	" " (300 x 1,200)	Place	2	9,000	18,000	
	Terrazzo block (Border) 90  30	m	23.8	7,500	178,500	
	Splash block	Place	8	1,000	8,000	
	Terrazzo block (Baseboard) H=80	m	517	450	232,650	
	Sub-Total				4,230,850	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
1-9	TILE WORK Brick tile (Under window frame) Mosaic tile (Floor) P.C. tile (Floor) 100mm x 100mm tile (Wall)	m m <sup>2</sup> " "	207 38 34.5 64.5	300 5,000 3,200 5,600	62,100 190,000 110,400 360,000	
	Sub-Total				722,500	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
1-10	CARPENTRY AND JOINERY Wood (Baseboard) (H=80) Plywood (Wall)	m m <sup>2</sup>	53 116	1,500 15,000	79,500 1,740,000	
Sub-Total						1,819,500

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
1-11	METAL WORK					
	Roof drain (Horizontal type) $\phi$ 100	Place	8	9,500	76,000	
	Leader $\phi$ 100	m	98	2,200	215,600	
	Joint pipe	Place	8	1,000	8,000	
	Non-slip nosing	m	76.5	2,500	191,250	
	Handrail $\updownarrow$ (70 $\phi$ P3, 32 x 15) (H=900)	"	37	7,000	259,000	
	" $\updownarrow$ (70 $\phi$ P3)	"	27.6	3,000	82,800	
	Folded steel plate (Roof)	m <sup>2</sup>	45	6,000	270,000	
	Light gauge steel (Ceiling)	"	428	1,200	513,600	
	Steel flashing (Girth 300)	m	223	1,000	223,000	
	Sub-Total				1,839,250	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
1-12	PLASTERING WORK					
	Lime concrete (Roof)	m <sup>2</sup>	501	850	425,850	
	Lime concrete (Roof rise)	"	34	200	6,800	
	Trowelled mortar finish (Baseboard) H-80	m	42	800	33,600	
	" " " (Wall)	m <sup>2</sup>	1,569	1,500	2,353,000	
	Mortar filling (Around frame)	m	970	500	485,000	
	Sub-Total				3,304,750	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
1-16	METAL DOORS AND WINDOWS Aluminum doors sand windows Steel doors	Set "	1 1		19,511,900 1,449,300	
Sub-Total						20,961,200



NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	ALUMINUM DOORS AND WINDOWS					
	1/AGD Glazed aluminum door(2,520W x 3,535H) Place		1		456,600	
	1/AGW Aluminum sash window(2,520W x 3,350H)	"	2	230,600	461,200	
	2/AGW " ( " )	"	5	595,800	2,979,000	
	3/AGW " (2,520W x 1,910H)	"	11	174,900	1,923,900	
	4/AGW " (2,450W x 1,265H)	"	66	110,300	7,279,800	
	5/AGW " ( 726W x 970H)	"	16	38,700	619,200	
	6/AGW " ( 762W x 840H)	"	6	35,100	210,600	
	Package for export	Set	1		1,621,000	
	Installation and adjustment	"	1		3,483,000	
	Caulking (Around frame)	m	796	600	477,600	
	Sub-Total				19,511,900	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	STEEL SASH DOORS					
	1/WD Frame for wood door (1,960 x 2,080)	Place	4	30,400	121,600	
	2/WD " (1,730 x 2,080)	"	2	29,900	59,800	
	3/WD " ( 920 x 2,080)	"	17	25,400	431,800	
	4/WD " ( 780 x 2,080)	"	1		25,300	
	5/WD " ( 750 x 2,080)	"	6	25,300	151,800	
	Package for export	Set	1		459,000	
	Installation and adjustment	"	1		200,000	
	Sub-Total				1,449,300	
	Sub-Total of Metal Doors				20,961,200	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
1-17	WOOD DOORS					
	1/WD Plywood flush door (1,680 x 2,040) Place		4	25,700	102,800	
	2/WD " (1,650 x 2,040)	"	2	25,300	50,600	
	3/WD " ( 840 x 2,040)	"	17	12,800	217,600	
	4/WD " ( 700 x 2,040)	"	1		11,000	
	5/WD " ( 750 x 2,040)	"	6	11,500	69,000	
	6/WD " ( 550 x 1,720)	"	7	7,100	49,700	
	7/WD " ( 300 x 1,720)	"	3	4,500	13,500	
	1/WGW Fixed sash window (2,680 x 1,205)	"	1		16,200	
	Hardware (1/WD, 2/WD)	"	6	12,500	75,000	
	" (3/WD, 4/WD)	"	19	10,500	199,500	
	" (4/WD)	"	10	3,500	35,000	
	Sub-Total				839,900	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
1-18	GLASS WORK					
	Transparent glass (5mm)	m <sup>2</sup>	242	3,700	913,900	
	" (6mm)	"	72	3,900	300,300	
	Sub-Total				1,214,200	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
1-19	PAINTING					
	O. P. (Ferrous surface)	m <sup>2</sup>	122	800	97,600	
	" (Wood doors and windows)	"	52	850	44,200	
	Wax	"	204	650	132,600	
	Oil (Wood doors and windows)	"	151	500	75,500	
	" (Wood)	"	82	500	41,000	
	E. P. (Mortar surface)	"	1,573	800	1,258,400	
	" (Board surface)	"	346	800	276,800	
	" (Concrete exposed surface)	"	1,124	850	955,400	
	Subs-Total				2,881,500	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
1-20	INTERIOR FURNISHING					
	Parquetry	m <sup>2</sup>	82	5,000	410,000	
	A.C.S. board (Ceiling)	"	346	2,400	830,400	
	Sub-Total				1,240,400	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
1-21	MISCELLANEOUS WORK					
	Sink and gas apparatus table (Toilet)1F Place (L=2,600)	"	1		120,000	
	Hanged cabinet (Toilet)1F (2,100 x 400 x 250)	"	1		36,000	
	Sink and gas apparatus table (Kettle room)2F (L=1,900)	"	1		93,000	
	Hanged cabinet (Kettle room) (1,900 x 400 x 250)	"	1		33,000	
	Sink and gas apparatus table (Kettle room)2F (L=1,350)	"	1		65,000	
	Hanged cabinet (Kettle room)2F (1,350 x 400 x 250)	"	1		28,000	
	Louvers (5,500 x 11,000)	"	1		480,000	
	Sub-Total				855,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
2	CLASS ROOM					
2-1	Temporary work	Set	1		2,633,810	
2-2	Earth work	"	1		1,075,640	
2-3	Filling work	"	1		9,468,600	
2-4	Concrete work	"	1		12,743,500	
2-5	Reinforcement work	"	1		5,274,380	
2-6	Brick masonry	"	1		3,929,000	
2-7	Terrozzo work	"	1		2,723,820	
2-8	Tile work	"	1		1,405,540	
2-9	Metal work	"	1		543,400	
2-10	Plastering work	"	1		2,207,990	
2-11	Metal doors and windows	"	1		7,227,100	
2-12	Wood doors and windows	"	1		586,300	
2-13	Glass work	"	1		396,640	
2-14	Painting	"	1		1,724,540	
2-15	Interior furnishing	"	1		16,320	
2-16	Miscellaneous work	"	1		497,050	
	Total				52,453,630	



NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
2-1	TEMPORARY WORK					
	Leveling	Set	1		84,750	
	Marking	"	1		264,000	
	Outer scaffold	"	1		827,380	
	Scaffold board (2F, H=7,63m)	Place	1		70,000	
	Inner scaffold	Set	1		211,200	
	Curing	"	1		253,440	
	Arrangement and cleaning	"	1		623,040	
	Loading test	"	1		300,000	
	Sub-Total				2,633,810	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
2-2	EARTH WORK					
	Excavation	m <sup>3</sup>	1,087.0	110	119,570	
	Backfilling	"	824.0	110	90,640	
	Removal of extra soil	"	263.0	110	28,930	
	Sand leveling (For berm)	m <sup>2</sup>	38.0	350	13,300	
	Sand leveling (For slab on the earth)	"	516.0	350	180,600	
	Brick soling (For foundation)	"	358.0	600	214,800	
	Brick soling (For berm)	"	68.0	600	40,800	
	Brick soling (For slab on the ground)	"	516.0	600	309,600	
	Polyethylene film	"	516.0	150	77,400	
	Sub-Total				1,075,640	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
2-3	PILING WORK					
	Concrete pile(Aggregate & labor) ø350	m	1,356	5,500	7,458,000	
	Reinforcement	t	19,5	62,000	1,209,000	
	Cement	M	51,7	13,000	672,100	
	Bentonite	M	3,7	35,000	129,500	
	Sub-Total				9,468,600	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
2-4	CONCRETE WORK					
	Leveling concrete	m <sup>3</sup>	11.8	11,100	130,980	
	Concrete (For slab on the earth)	m <sup>3</sup>	51.6	11,100	572,760	
	Reinforced concrete	m <sup>3</sup>	485.2	11,100	5,385,720	
	Concrete (Miscellaneous)	m <sup>3</sup>	21.8	11,100	241,980	
	Form	m <sup>2</sup>	3,607.5	1,700	6,132,750	
	Form (Miscellaneous)	"	164.3	1,700	279,310	
	Sub-Total				12,743,500	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
2-5	REINFORCEMENT WORK					
	Deformed reinforcement, D10 SD30	t	23.60	68,000	1,604,800	
	" " D10 "	"	4.89	68,000	332,520	
	" " D13 "	"	6.54	66,000	431,640	
	" " D13 (Miscellaneous)	"	0.78	66,000	51,480	
	" " D16 ~ D25 SD30	"	26.07	62,000	1,616,340	
	Labor of handling assembly	"	61.88	20,000	1,237,600	
	Sub-Total				5,274,380	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
2-6	BRICK MASONRY					
	Brick laying (Wall) (Ornamental)	m <sup>3</sup>	15	20,000	300,000	
	" (W=241)	"	173	17,500	3,027,500	
	" (W=115)	"	1.4	17,500	24,500	
	Brick flooring (Floor)	"	31	17,500	542,500	
	Brick laying (Window sill)	m	69	500	34,500	
	Sub-Total				3,929,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
2-7	TERRAZZO WORK					
	Terrazzo block (Floor)	m <sup>2</sup>	561	3,200	1,795,200	
	Terrazzo block (Window board) (W=150)	m	7,7	4,000	30,800	
	Terrazzo block (Separate board)	m <sup>2</sup>	16	25,000	400,000	
	" (300 x 1,200).	Place	7	9,000	63,000	
	Terrazzo block (Border)	m	21.8	7,500	163,500	
	Splash block	Place	8	1,000	8,000	
	Terrazzo block (Saddle) (W=330)	m	14,2	9,100	129,220	
	Terrazzo block (Baseboard) (H=80)	"	298	450	134,100	
	Sub-Total				2,723,820	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
2-8	TILE WORK					
	Brick tile (Under window frame) (With mortar)	m	69	300	20,700	
	Mosaic tile (Floor)	m <sup>2</sup>	38	5,000	190,000	
	100mm x 100mm Tile (Wall) (With mortar)	"	40.4	5,600	226,240	
	Brick tile (Floor) ( " )	"	125	6,500	812,500	
	" (Run, rise) (With mortar)	"	22.3	7,000	156,100	
	Sub-Total				1,405,540	



NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
2-9	METAL WORK					
	Roof drain (Horizontal type) $\phi$ 100	Place	8	9,500	76,000	
	Leader $\phi$ 100	m	60	2,200	132,000	
	Joint pipe	Place	8	1,000	8,000	
	Non-slip nosing	m	36.8	2,500	92,000	
	Handrail (70 $\phi$ P3 32 x 15) H=900	"	16.5	7,000	115,500	
	"	"	7.5	3,000	22,500	
	Light gauge steel (Ceiling)	m <sup>2</sup>	7	1,200	8,400	
	Steel flashing (Girth 300)	m	69	1,000	69,000	
	Floor drain $\phi$ 50 (Vertical type)	Place	4	3,500	14,000	
	Leader $\phi$ 50	m	4	1,500	6,000	
	Sub-Total				543,400	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
2-10	PLASTERING WORK Lime concrete (Roof) Lime concrete (Roof rise) Trowelled mortar finish (Wall) Mortar filling (Around frame) Trowelled mortar finish (Flashing) 180 Trowelled mortar finish (Floor)	m <sup>2</sup> " " m " m <sup>2</sup>	577 32 1,001 392 20.4 6.5	850 200 1,500 500 350 1,000	490,450 6,400 1,501,500 196,000 7,140 6,500	       Sub-Total 2,207,990

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
2-11	METAL DOORS AND WINDOWS					
	Aluminum doors and windows	Set	1		6,382,600	
	Steel doors and windows	"	1		844,500	
	Sub-Total				7,227,100	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	ALUMINUM DOORS AND WINDOWS					
	6/AGW Aluminum sash window( 762Wx 840H)Place		1		35,100	
	7/AGW " " (2,520Wx1,045H) "		1		75,100	
	8/AGW " " (2,700Wx1,035H) "		1		56,900	
	9/AGW " " (2,450Wx1,265H) "		27	110,300	2,978,100	
	10/AGW " " (2,450Wx 860H) "		8	155,200	1,241,600	
	11/AGW " " ( 880Wx 970H) "		1		41,000	
	Package for export	Set	1		561,000	
	Installation and adjustment	"	1		1,170,000	
	Caulking (Around frame)	m	373	600	223,800	
	Sub-Total				6,382,600	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	STEEL SASH DOORS					
	3/WD Frame for wood door( 920 x 2,080)	Place	1		25,400	
	4/WD " ( 780 x 2,080)	"	1		25,300	
	5/WD " ( 750 x 2,080)	"	2	25,300	50,600	
	8/WD " (1,006 x 2,080)	"	14	26,300	368,200	
	Package for export	Set	1		253,000	
	Installation and adjustment	"	1		122,000	
	Sub-Total				844,500	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
2-12	WOOD DOORS					
	3/WD Plywood flush door ( 840 x 2,040)	Place	1		12,800	
	4/WD "	"	1		11,000	
	5/WD "	"	2	11,500	23,000	
	6/WD "	"	5	7,100	35,500	
	8/WD "	"	14	19,000	266,000	
	Hardware	"	21	10,500	220,500	
	Sub-Total				586,300	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
2-13 --	GLASS WORK Transparent glass (5mm)	m <sup>2</sup>	107.2	3,700	396,640	
Sub-Total					396,640	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
2-14	PAINTING WORK					
	O. P. (Ferrous surface)	m <sup>2</sup>	22	800	17,600	
	" (Wood doors and windows)	"	116	850	98,600	
	Oil (Wood doors and windows)	"	9.5	500	4,750	
	Oil (Wood)	"				
	E. P. (Mortar surface)	"	966	800	772,800	
	" (Board surface)	"	6.8	800	5,440	
	" (Exposed concrete surface)	"	971	850	825,350	
	Sub-Total				1,724,540	



NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
2-15	INTERIOR FURNISHING A.C.S. Board (Celling)	m <sup>2</sup>	6,8	2,400	16,320	
Sub-Total					16,320	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
2-16	MISCELLANEOUS WORK					
	1F counter (Office) (2,550 x 500)	Place	1		56,000	
	2F counter (Library) (2,700 x 600 x 1,030)	"	1		67,500	
	Black board (Class room) (2,700 x 1,100)	"	4	50,000	200,000	
	Notice board (Class room) (1,200 x 1,100)	"	4	30,000	120,000	
	Precast concrete (Corridor handrail)	m	35.7	1,500	53,550	
	Sub-Total				497,050	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
3	DORMITORY					
3-1	Temporary work	Set	1		3,448,600	
3-2	Earth work	"	1		1,197,670	
3-3	Piling work	"	1		10,230,400	
3-4	Concrete work	"	1		14,843,010	
3-5	Reinforcement work	"	1		6,294,080	
3-6	Steel work	"	1		133,150	
3-7	Brick masonry	"	1		4,608,750	
3-8	Terrazzo work	"	1		3,732,240	
3-9	Tile work	"	1		2,788,700	
3-10	Metal work	"	1		916,600	
3-11	Plastering work	"	1		3,294,900	
3-12	Metal doors and windows	"	1		11,590,900	
3-13	Wood doors and windows	"	1		750,700	
3-14	Glass work	"	1		725,200	
3-15	Painting work	"	1		2,044,950	
3-16	Interior furnishing	"	1		163,200	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
3-17	Miscellaneous work	Set	1		1,139,100	
	Total				67,902,150	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
3-1	TEMPORARY WORK					
	Leveling	Set	1		88,500	
	Marking	"	1		291,250	
	Scaffold (Outer)	"	1		1,348,900	
	Scaffold board	Place	1		70,000	
	"		1		150,000	
	Scaffold (Inner)	Set	1		233,000	
	Curing	"	1		279,600	
	Arrangement and cleaning	"	1		687,350	
	Loading test	"	1		300,000	
	Sub-Total				3,448,600	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
3-2	EARTH WORK					
	Excavation	m <sup>3</sup>	976.0	110	107,360	
	Backfilling	"	699.0	110	76,890	
	Removal of extra soil	"	277.0	110	30,470	
	Sand leveling (For berm)	m <sup>2</sup>	97.0	350	33,950	
	Sand leveling (For slab on the earth)	"	524.0	350	183,400	
	Brick soling (For foundation)	"	448	600	268,800	
	Brick soling (For berm)	"	173	600	103,800	
	Brick soling (For slab on the earth)	"	524	600	314,400	
	Polyethylene film	"	524.0	150	78,600	
	Sub-Total				1,197,670	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
3-3	PILING WORK					
	Concrete pile (Aggregate & labor) (ø400)	m	912	6,000	5,472,000	
	" ( " ) (ø300)	"	516	5,000	2,580,000	
	Reinforcement	t	20.5	62,000	1,271,000	
	Cement	"	59.3	13,000	770,900	
	Bentonite	"	3.9	35,000	136,500	
	Sub-Total				10,230,400	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
3-4	CONCRETE WORK					
	Leveling concrete	m <sup>3</sup>	14.8	11,100	164,280	
	Concrete(For slab on the earth)	"	52.4	11,100	581,640	
	Reinforced concrete	"	569.2	11,100	6,318,120	
	Concrete (Miscellaneous)	"	29.4	11,100	326,340	
	Form	m <sup>2</sup>	4,118.3	1,700	7,001,110	
	" (Miscellaneous)	"	265.6	1,700	451,520	
	Sub-Total				14,843,010	



NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
3-5	REINFORCEMENT WORK					
	Deformed reinforcement (D10 SD30)	t	23.8	68,000	1,618,400	
	" " (D10, miscellaneous, SD30)	"	5.27	68,000	358,360	
	" " (D13 SD30)	"	10.44	66,000	689,040	
	" " (D13, miscellaneous, SD30)	"	1.04	66,000	68,640	
	" " (D16 - D25, SD30)	"	33.52	62,000	2,078,240	
	Labor of handling assembly	"	74.07	20,000	1,481,400	
	Sub-Total				6,294,080	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
3-6	STEEL WORK					
	Steel	t	0.5	84,500	42,250	
	Labor of handling assembly	"	0.5	130,000	65,000	
	Erection	"	0.5	11,000	5,500	
	Painting (O. P.)	m <sup>2</sup>	16.0	650	10,400	
	Transportation	Set	1		10,000	
	Sub-Total				133,150	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
3-7	BRICK MASONRY					
	Brick laying (Wall) (Ornamental)	m <sup>3</sup>	22	20,000	440,000	
	" (W=241 - 356)	"	174	17,500	3,045,000	
	" (W=115)	"	46.4	17,500	812,000	
	Brick flooring (Floor)	"	13.9	17,500	243,250	
	Brick laying (Window sill)	m	137	500	68,500	
	Sub-Total				4,608,750	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
3-8	TERRAZZO WORK					
	Terrazzo block (Floor)	m <sup>2</sup>	572	3,200	1,830,400	
	Terrazzo block (Window board) (W=150)	m	21	4,000	84,000	
	Terrazzo block (Separate board)	m <sup>2</sup>	50	25,000	1,250,000	
	" " (300 x 1,200)	Place	9	9,000	81,000	
	Splash block	"	9	1,000	9,000	
	Terrazzo block (Window board)	m	16	7,500	120,000	
	Terrazzo block (Saddle) (W=330)	"	18.9	9,100	171,990	
	Terrazzo block (Base board)	"	413	450	185,850	
	Sub-Total				3,732,240	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
3-9	TILE WORK					
	Brick tile (Under window frame)	m	122	300	36,600	
	Mosaic tile (Floor)	m <sup>2</sup>	120	5,000	600,000	
	100mm x 100mm tile (Wall)	"	146	5,600	817,600	
	Brick tile (Floor)	"	159	6,500	1,033,500	
	" (Run, rise)	"	43	7,000	301,000	
	Sub-Total				2,788,700	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
3-10	METAL WORK					
	Roof drain (Horizontal type, $\phi 100$ )	Place	9	9,500	85,500	
	Leader ( $\phi 100$ )	m	65	2,200	143,000	
	Joint pipe	place	9	1,000	9,000	
	Non-slip nosing	m	94	2,500	235,000	
	Folded steel plate (Roof)	m <sup>2</sup>	19	6,000	114,000	
	Light gauge steel (Ceiling)	"	68	1,200	81,600	
	Flashing steel plate (Girth 300)	m	136	1,000	136,000	
	Pit lid (250 x 1,000 x 38)	"	13.7	6,000	82,200	
	" (300 x 300)	Place	1		2,500	
	Curtain rail	m	6	800	4,800	
	Hook	Place	6	500	3,000	
	Floor drain (Vertical type, $\phi 50$ )	"	4	3,500	14,000	
	Leader ( $\phi 50$ )	m	4	1,500	6,000	
	Sub-Total				916,600	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
3-11	PLASTERING WORK					
	Lime concrete (Roof)	m <sup>2</sup>	576	850	489,600	
	Lime concrete (Roof rise)	"	49	200	9,800	
	Trowelled mortar finish (Baseboard)	m	25	800	20,000	
	Trowelled mortar finish (Wall)	m <sup>2</sup>	1,569	1,500	2,353,500	
	Mortar filling (Around frame)	m	684	500	342,000	
	Trowelled mortar finish (Floor)	m <sup>2</sup>	52	1,000	52,000	
	Trowelled mortar finish (Flashing under windows)	m	80	350	28,000	
	Sub-Total				3,294,900	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
3-12	METAL DOORS AND WINDOWS					
	Aluminum doors and windows	Set	1		9,503,900	
	Steel doors and windows	"	1			2,087,000
	Sub-Total				11,590,900	



NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	ALUMINUM DOORS AND WINDOWS					
	1/AGD Glazed aluminum door(2,010Wx2,075H)Place		4	190,600	762,400	
	6/AGW Aluminum sash window( 762Wx 840H)	"	2	35,100	70,200	
	12/AGW " " (3,720Wxl,265H)	"	21	144,000	3,024,000	
	13/AGW " " (5,240Wxl,305H)	"	3	147,500	442,500	
	14/AGW " " (5,240Wx 890H)	"	1		110,600	
	15/AGW " " (1,940Wxl,940H)	"	3	184,000	552,000	
	16/AGW " " (1,940Wxl,305H)	"	1		47,400	
	17/AGW " " (3,720Wx 740H)	"	21	55,800	1,171,800	
	1/AG Aluminum louver (2,010Wx 585H)	"	7	73,000	511,000	
	Package for export	Set	1		1,044,000	
	Installation and adjustment	"	1		1,768,000	
	Sub-Total				9,503,900	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	STEEL DOORS					
	4/WD Frame for wood door (780 x 2,080)	Place	2	25,300	50,600	
	5/WD " " (750 x 2,080)	"	2	25,300	50,600	
	9/WD " " (880 x 2,080)	"	21	25,900	543,900	
	10/WD " " (880 x 2,080)	"	21	25,900	543,900	
	Package for export	Set	1		608,000	
	Installation and adjustment	"	1		290,000	
	Sub-Total				2,089,000	
	Sub-Total of Metal Doors				11,590,900	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
3-13	WOOD DOORS					
	4/WD Plywood flush door (700 x 2,040) .	Place	2	11,000	22,000	
	5/WD " " (750 x 2,040)	"	2	11,500	23,000	
	6/WD " " (550 x 1,720)	"	14	7,100	99,400	
	7/WD " " (300 x 1,720)	"	1		4,000	
	9/WD Plywood door (800 x 2,040)	"	21	12,300	258,300	
	10/WD Wood mesh window (800 x 2,040)	"	21	6,000	126,000	
	11/WD Plywood flush door (550 x 1,010)	"	1		4,500	
	Hardware (4/WD, 5/WD, 9/WD, 11/WD)	"	14	11,500	161,000	
	" (6/WD, 7/WD)	"	15	3,500	52,500	
	Sub-Total				750,700	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
3-14	GLASS WORK Transparent glass (5mm)	m <sup>2</sup>	196	3,700	725,200	
Sub-Total					725,200	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
3-15	PAINTING WORK O. P. (Wood doors sand windows) Oil (Wood doors sand windows) E. P. (Mortar surface) " (Board surface) " (Exposed concrete surface)	m <sup>2</sup> " " " "	217 9 1,572 68 640	850 500 800 800 850	184,450 4,500 1,257,600 54,400 544,000	
	Sub-Total				2,044,950	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
3-16	INTERIOR FURNISHING A.C.S. board (Ceiling)	m <sup>2</sup>	68	2,400	163,200	
	Sub-Total				163,200	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
3-17	MISCELLANEOUS WORK					
	Counter (Kitchen) (6,500 x 600)	Place	1	80,000		
	Vinyl curtain (Shower room)	m <sup>2</sup>	16.2	2,000	32,400	
	Table (Bed room) (3,800 x 600)	Place	21	40,000	840,000	
	Precast concrete (Handrail)	m	35	1,500	52,500	
	"	"	61	2,200	134,200	
	Sub-Total				1,139,100	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
4	CAFETERIA					
4-1	Temporary work	Set	1		2,150,140	
4-2	Earth work	"	1		1,372,630	
4-3	Piling work	"	1		8,802,300	
4-4	Concrete work	"	1		11,369,230	
4-5	Reinforcement work	"	1		5,069,300	
4-6	Brick masonry	"	1		2,175,750	
4-7	Terrazzo work	"	1		1,986,800	
4-8	Tile work	"	1		222,800	
4-9	Metal work	"	1		535,160	
4-10	Plastering work	"	1		1,790,070	
4-11	Metal doors and windows	"	1		10,801,700	
4-12	Wood doors and windows	"	1		155,700	
4-13	Glass work	"	1		543,900	
4-14	Painting work	"	1		1,120,640	
4-15	Interior furnishing	"	1		24,720	
4-16	Miscellaneous work	"	1		149,000	
	Total				48,269,840	



NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
4-1	TEMPORARY WORK					
	Leveling	Set	1		113,100	
	Marking	"	1		188,500	
	Scaffold (Outer)	"	1		701,920	
	Scaffold board (1F H=5.87m)	Place	1		70,000	
	Scaffold (Inner)	Set	1		150,800	
	Curing	"	1		180,960	
	Arrangement and cleaning	"	1		444,860	
	Loading test	"	1		300,000	
	Sub-Total				2,150,140	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
4-2	EARTH WORK					
	Excavation	m <sup>3</sup>	1,414.0	110	155,540	
	Backfilling	"	1,145.0	110	125,950	
	Removal of extra soil	"	269.0	110	29,590	
	Sand leveling (For berm)	m <sup>2</sup>	37.0	350	12,950	
	Sand leveling (For slab on the earth)	"	728.0	350	254,800	
	Brick soling (For foundation)	"	613	600	367,800	
	Brick soling (For berm)	"	68	600	40,800	
Brick soling (For slab on the earth)	"	460	600	276,000		
Polyethylene film	"	728.0	150	109,200		
	Sub-Total				1,372,630	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
4-3	PILING WORK					
	Concrete pile (Aggregate & labor) (ø300)	m	1,392	5,000	6,960,000	
	Reinforcement	t	20	62,000	1,240,000	
	Cement	"	36.1	13,000	469,300	
	Bentonite	"	3.8	35,000	133,000	
	Sub-Total				8,802,300	

NO	ITEM AND DESCRIPTION	UNTS	QUANTITIES	UNIT COST	TOTAL	REMARKS
4-4	CONCRETE WORK					
	Leveling concrete	m <sup>3</sup>	20.3	11,100	225,330	
	Concrete(For slab on the earth)	"	72.8	11,100	808,080	
	Reinforced concrete	"	402.0	11,100	4,462,200	
	Concrete (Miscellaneous)	"	19.4	11,100	215,340	
	Form	m <sup>2</sup>	3,178.4	1,700	5,403,280	
	" (Miscellaneous)	"	150.0	1,700	255,000	
	Sub-Total				11,369,230	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
4-5	REINFORCEMENT WORK					
	Deformed reinforcement (D10 SD30)	t	15.45	68,000	1,051,280	
	" (D10, miscellaneous SD30)	"	6.48	68,000	465,120	
	" (D13 SD30)	"	7.67	66,000	506,220	
	" (D13, miscellaneous SD30)	"	0.67	66,000	44,220	
	" (D16 - D25 SD30)	"	29.23	62,000	1,812,260	
	Labor of handling assembly	"	59.51	20,000	1,190,200	
	Sub-Total				5,069,300	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
4-6	BRICK MASONRY					
	Brick laying (W=24.1 - 355)	m <sup>3</sup>	112	17,500	1,960,000	
	" (W=115)	"	9.3	17,500	162,750	
	" (Window sill)	m	106	500	53,000	
	Sub-Total				2,175,750	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
4-7	TERRAZZO WORK					
	Terrazzo block (Floor)	m <sup>2</sup>	528	3,200	1,689,600	
	" (Separate board)	"	5.4	25,000	135,000	
	" (300 x 1,200)	Place	1		90,000	
	Splash block	"	11	1,000	11,000	
	Terrazzo block (Baseboard) (H=80)	m	136	450	61,200	
	Sub-Total				1,986,800	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
4-8	<p>TILE WORK</p> <p>Brick tile (Under window frame) (with mortar)</p> <p>Mosaic tile (Floor) (with mortar)</p> <p>100mm x 100mm tile (Wall) (with mortar)</p>	<p>m</p> <p>m<sup>2</sup></p> <p>"</p>	<p>88</p> <p>18</p> <p>19</p>	<p>300</p> <p>5,000</p> <p>5,600</p>	<p>26,400</p> <p>90,000</p> <p>106,400</p>	
	Sub-Total				222,800	



NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
4-9	<p>METAL WORK</p> <p>Roof drain (Horizontal type, <math>\phi</math>100) Place</p> <p>Leader (<math>\phi</math>100) m</p> <p>Joint pipe Place</p> <p>Light weight steel (Ceiling) m<sup>2</sup></p> <p>Steel flashing (Girth 300) m</p>		<p>11</p> <p>55</p> <p>11</p> <p>10.3</p> <p>106</p>	<p>9,300</p> <p>2,200</p> <p>1,000</p> <p>1,200</p> <p>1,000</p>	<p>102,300</p> <p>121,000</p> <p>11,000</p> <p>12,360</p> <p>106,000</p>	
Sub-Total						535,160

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
4-10	PLASTERING WORK					
	Lime concrete (Roof)	m <sup>2</sup>	261	850	221,850	
	Lime concrete (Roof rise)	"	42	200	8,400	
	Trowelled mortar finish (Baseboard) (H=80)	m	40.4	800	32,320	
	Trowelled mortar finish (Wall)	m <sup>2</sup>	745	1,500	1,117,500	
	Mortar filling (Around frame)	m	468	500	234,000	
	Trowelled mortar finish (Floor)	m <sup>2</sup>	176	1,000	176,000	
	Sub-Total				1,790,070	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
4-11	METAL DOORS AND WINDOWS Aluminum doors and windows Steel doors	Set "	1 1		10,541,900 259,800	
	Sub-Total				10,801,700	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	ALUMINUM DOORS AND WINDOWS					
	Glazed aluminum door (2,010W x 2,475H)	Place	4	205,200	820,800	
	" (1,970W x 2,075H)	"	2	189,000	378,000	
	" (1,780W x 2,075H)	"	1		182,600	
	Aluminum sash window (1,940W x 1,305H)	"	7	47,400	331,800	
	" (1,940W x 2,020H)	"	16	171,200	2,739,200	
	" (1,940W x 2,340H)	"	6	193,000	1,158,000	
	" (4,980W x 1,305H)	"	1		144,500	
	" (3,970W x 1,305H)	"	2	100,000	200,000	
	" (1,940W x 890H)	"	5	36,000	180,000	
	" ( 530W x 4,550H)	"	2	98,600	197,200	
	Aluminum Louver (2,010W x 585H)	"	12	78,900	946,800	
	Caulking (Around frame)	m	437	600	262,200	
	Angle (All directions)	"	352	650	228,800	
	Package for export	Set	1		877,000	
	Installation and adjustment	"	1		1,895,000	
	Sub-Total				10,541,900	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	STEEL DOORS					
	Frame for wood door (780W x 2,080H)	Place	4	25,300	101,200	
	" " (750W x 2,080H)	"	2	25,300	50,600	
	Package for export	Set	1		73,000	
	Installation and adjustment	"	1		35,000	
	Sub-Total				259,800	
	Metal doors and windows				10,801,700	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
4-12	WOOD DOORS					
	Plywood flush door ( 700 x 2,040)	Place	4	11,000	44,000	
	" ( 750 x 2,040)	"	2	11,500	23,000	
	" ( 550 x 1,720)	"	2	7,100	14,200	
	Plywood flush door ( 300 x 1,720)	"	1		4,500	
	Hardware (4/WD, 5/WD)	"	6	10,500	63,000	
	" (6/WD)	"	2	3,500	7,000	
	Sub-Total				155,700	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
4-13	GLASS WORK Transparent glass (5mm)	m <sup>2</sup>	147	3,700	543,900	
Sub-Total						543,900

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
4-14	PAINTING WORK					
	O. P. (Wood doors and windows)	m <sup>2</sup>	14.0	850	11,900	
	Oil (Wood doors and windows)	"	17.5	500	8,750	
	E. P. (Mortar surface)	"	707	800	565,600	
	" (Board surface)	"	10,3	800	8,240	
	" (Exposed concrete surface)	"	619	850	526,150	
	Sub-Total				1,120,640	



NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
4-15	INTERIOR FURNISHING A.C.S. board (Ceiling)	m <sup>2</sup>	10.3	2,400	24,720	
	Sub-Total				24,720	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
4-16	MISCELLANEOUS WORK					
	Counter (Kitchen) (Wood, O.P., 4,400 x 600)	Place	1		55,000	
	" (Wood, O.P., 3,600 x 600)	"	1		44,000	
	Counter (Dining) (Wood, O.P., 1,800 x 600 x 1,100)	"	1		50,000	
	Sub-Total				149,000	






NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
5	TRAINING ROOM					
5-1	Temporary work	Set	1		3,316,000	
5-2	Earth work	"	1		1,867,850	
5-3	Piling work	"	1		6,801,900	
5-4	Concrete work	"	1		5,429,150	
5-5	Reinforcement work	"	1		2,327,600	
5-6	Steel work	"	1		23,046,470	
5-7	Brick masonry	"	1		1,592,500	
5-8	Roof and metal work	"	1		12,204,760	
5-9	Plastering work	"	1		1,879,000	
5-10	Metal doors and windows	"	1		17,900,400	
5-11	Glass work	"	1		1,113,700	
5-12	Painting work	"	1		2,442,800	
5-13	Interior furnishing	"	1		3,894,000	
	Total				83,816,130	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
5-1	TEMPORARY WORK					
	Leveling, marking	Set	1		262,700	
	Scaffold (Outer)	"	1		1,164,400	
	" (Inner)	"	1		571,000	
	Scaffold board	"	1		70,000	
	Arrangement and cleaning	"	1		673,800	
	Curing	"	1		274,100	
	Loading test expenses	Place	1		300,000	
	Sub-Total				3,316,000	
5-2	EARTH WORK					
	Excavation	m <sup>3</sup>	850	110	93,500	
	Backfilling	"	694	110	76,340	
	Filling	"	57	110	6,270	
	Removal of extra soil	"	99	110	10,890	
	Brick foundation	m <sup>2</sup>	198	600	-18,800	
	" (For slab on the earth)	"	1,138	1,300	1,479,400	
	" (For berm)	"	87	950	82,650	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
5-3	<p style="text-align: center;">Sub-Total</p> <p>PILING WORK</p> <p>Concrete pile (Aggregate and labor)</p> <p>Reinforcement</p> <p>Cement</p> <p>Bentonite</p> <p style="text-align: center;">Sub-Total</p>	<p>m</p> <p>t</p> <p>"</p> <p>"</p>	<p>924</p> <p>13.3</p> <p>26.6</p> <p>2.5</p>	<p>6,000</p> <p>62,000</p> <p>13,000</p> <p>35,000</p>	<p>1,867,850</p> <p>5,544,000</p> <p>824,600</p> <p>345,800</p> <p>87,500</p> <p>6,801,900</p>	
5-4	<p style="text-align: center;">Sub-Total</p> <p>CONCRETE WORK</p> <p>Leveling concrete</p> <p>Reinforced concrete (150 kg/cm<sup>2</sup>)</p> <p>Concrete(For slab on the earth)</p> <p>Form</p> <p style="text-align: center;">Sub-Total</p>	<p>m<sup>3</sup></p> <p>"</p> <p>"</p> <p>m<sup>2</sup></p>	<p>9.9</p> <p>131.6</p> <p>228</p> <p>781</p>	<p>11,100</p> <p>11,100</p> <p>11,100</p> <p>1,700</p>	<p>109,890</p> <p>1,460,760</p> <p>2,530,800</p> <p>1,327,700</p> <p>5,429,150</p>	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
5-5	REINFORCEMENT WORK					
	Reinforcement (SD30/D10)	t	16.6	68,000	1,128,800	
	" ( " D13)	"	3.5	66,000	231,000	
	" ( " D16)	"	4	62,000	248,000	
	" ( " D19)	"	2.9	62,000	179,800	
	Labor of handling assembly	"	27	20,000	540,000	
	Sub-Total				2,327,600	
5-6	STEEL WORK					
	Steel (H)	t	62.6	84,500	5,289,700	
	" (L)	"	10.8	65,500	707,400	
	" (C)	"	4.9	85,000	416,500	
	" (R)	"	7.8	85,500	666,900	
	H.T.B. (High Tension Bolt)	"	2.4	250,000	600,000	
	Labor of handling assembly	"	86.1	130,000	11,193,000	
	Erection	"	84.8	11,000	932,800	
	Welding	m	2,349	530	1,244,970	
	Anchor bolt(M20 x 900)	Pcs.	128	1,400	179,200	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Anchor bolt (M16 x 900)	Pcs.	100	1,200	120,000	
	Transportation and package	Set	1		1,696,000	
	Sub-Total				23,046,470	
5-7	BRICK MASONRY					
	Brick laying (Berm) (T=75)	m <sup>3</sup>	2	17,500	35,000	
	" (Wall) (T=250)	"	89	17,500	1,557,500	
	Sub-Total				1,592,500	
5-8	ROOF AND METAL WORK					
	Folded steel plate (Roof) (T=1.0)	m <sup>2</sup>	1,125	5,000	5,625,000	
	" " (Eaves) (T=1.0)	"	438	5,000	2,190,000	
	Tight frame	m	322	950	305,900	
	Ridge covering (Girth 350)	"	65	2,200	143,000	
	Reinforced angle L - 75x75x6x2,400	"	32	3,000	96,000	
	Asbestos protected metal (Gutter)	"	134.8	6,000	808,800	
	Leader (φ100)	"	77	2,200	169,400	
	Eaves closer	"	61.2	900	55,080	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Steel flashing (Eaves)  Girth 450	m	27.6	2,200	60,720	
	" "  Girth 350	"	6	1,600	9,600	
	Steel siding (Exterior wall) (T=0.6)	m <sup>2</sup>	315	2,900	913,500	
	Steel flashing (Exterior wall)  Girth 100	m	59.8	500	29,900	
	" "  " 300	"	82.8	1,500	124,200	
	" "  " 200	"	50.6	1,000	50,600	
	" "	"	111	800	88,800	
	Non-slip nosing	"	12	2,400	28,800	
	Metal fence (H 1,300)	"	42.6	5,000	213,000	
	Caulking (Exterior wall)	"	358	600	214,800	
	Caulking (Around frame)	"	597	600	358,200	
	Transportation and package	Set	1		719,460	
	Sub-Total				12,204,760	



NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
5-9	PLASTERING WORK					
	Trowelled mortar finish (Entrance) (Run, Rise)	m <sup>2</sup>	7	1,300	9,100	
	Trowelled mortar finish (Window sill)	m	111	900	99,900	
	" " (Floor)	m <sup>2</sup>	1,135	1,000	1,135,000	
	" " (Baseboard)	m	145	500	72,500	
	" " (Wall)	m <sup>2</sup>	375	1,500	562,500	
	Sub-Total				1,879,000	
5-10	METAL DOORS AND WINDOWS					
	1/SD Steel door (3200 x 3050)		2	517,300	1,034,600	
	2/SD " (1890 x 3400)		2	172,700	345,400	
	24/AGW Aluminum sash window (4610 x 2645)		13	552,700	7,185,100	
	25/AGW " " (3020 x 4090)		2	410,000	820,000	
	26/AGW " " (4510 x 1280)		6	138,000	828,000	
	27/AGW " " (4610 x 1857)		11	142,900	1,571,900	
	2/AG Aluminum Louver (4610 x 480)		11	124,400	1,368,400	
	Installation	Set	1		3,054,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Package for export	Set	1		1,693,000	
	Sub-Total				17,900,400	
5-11	GLASS WORK					
	Transparent glass (T=5)	m <sup>2</sup>	301	3,700	1,113,700	
	Sub-Total				1,113,700	
5-12	PAINTING WORK					
	O.P. (Steel doors and windows)	m <sup>2</sup>	83	800	66,400	
	" (Ferrous surface)	"	713	650	463,450	
	" (Steel)	"	2,463	650	1,600,950	
	E.P.	"	390	800	312,000	
	Sub-Total				2,442,800	
5-13	INTERIOR FURNISHING					
	Glass wool (Folded steel plate)	m <sup>2</sup>	1,947	2,000	3,894,000	
	Sub-Total				3,894,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
6	CHECK GATE	Set	1		167,757	
	Temporary work					
	Excavation	m <sup>3</sup>	179.9	110	19,789	
	Backfilling	"	116.3	110	12,793	
	Removal of extra soil	m	63.6	110	6,996	
	Sand leveling	"	220	350	77,000	
	Brick-soling (For foundation)	m <sup>2</sup>	45	600	27,000	
	" (For slab on the earth)	"	183	600	109,800	
	Leveling concrete.	"	3.9	11,100	43,290	
	Concrete(For slab on the earth)	"	23.2	11,100	257,520	
	Reinforced concrete	"	74.1	11,100	822,510	
	Form	"	648.0	1,700	1,101,600	
	Deformed reinforcement (D10)	t	4.61	68,000	313,480	
	" (D16 - D25)	"	3.68	62,000	228,160	
Labor of handling assembly	"	8.29	20,000	165,800		
Transportation expenses	Set					

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Brick soling (Floor)	m <sup>3</sup>	3.5	17,500	61,250	
	Brick laying (Wall)	"	26.3	17,500	460,250	
	P.C. tile (Floor)	m <sup>2</sup>	95.2	3,200	304,640	
	Terazzo block (Floor)	"	10.7	3,200	34,240	
	Lime concrete (Roof)	"	131.8	850	112,030	
	Mortar filling (Around frame)	m	149.6	500	74,800	
	Trowelled concrete finish (Coping) (W=160)	"	57.8	250	14,450	
	1/SD Steel finish door SD-1 (With transom) Place 1.92x2.4		2	158,400	316,800	
	1/AW Aluminum sash window AW-1 3.25x1.55	"	1		77,900	
	2/AW " " AW-2 1.99x1.55	"	7	39,800	278,600	
	3/AW " " AW-3 1.94x0.68	"	9	25,200	226,800	
	1/WD Frame for wood door	"	2	23,200	46,400	
	2/WD " " "	"	1		23,000	
	3/WD " " "	"	1		27,400	
	Package for export	Set	1		249,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Installation and adjustment	Set	1		214,000	
	Terrazzo block (Window sill)	m	3.5	12,500	43,750	
	"	"	3.5	10,000	35,000	
	Trowelled mortar finish (Wall)	m <sup>2</sup>	287.3	1,500	430,950	
	Booth	"	3.7	25,000	92,500	
	Wood O.P. (Wood doors and windows)	"	33.8	850	28,730	
	Ferrous surface O.P. (Steel doors and windows)	"	22.3	800	17,840	
	Caulking (Around frame)	m	122.9	600	73,740	
	Wired glass (T=6.8)	m <sup>2</sup>	1.5	4,950	7,425	
	Transparent glass (T=5)	"	19.3	3,700	71,410	
	Loading test	Set	1		200,000	
	Sub-Total				6,876,400	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
7	AIR COMPRESSOR HOUSE					
	Temporary work	Set	1		98,932	
	Excavation	m <sup>3</sup>	115.4	110	12,694	
	Backfilling	"	79.0	110	8,690	
	Removal of extra soil	"	36.4	110	4,004	
	Sand leveling	"	162	350	56,700	
	Brick soiling (For foundation)	m <sup>2</sup>	28	600	16,800	
	Brick soiling (For slab on the earth)	"	141	600	84,600	
	Brick soiling (For berm)	"	45	600	27,000	
	Leveling concrete	m <sup>3</sup>	1.9	11,100	21,090	
	Concrete (For slab on the earth)	"	17.8	11,100	197,580	
	Reinforced concrete	"	52.8	11,100	586,080	
	Form	m <sup>2</sup>	461.0	1,700	783,700	
	Deformed reinforcement (D10)	t	3.41	68,000	231,880	
	" (D16 - D25)	"	3.35	62,000	207,700	
	Labor of handling assembly	"	6.76	20,000	135,200	
	Brick laying (Wall)	m <sup>3</sup>	20.0	17,500	350,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Trowelled concrete finish (Floor)	m <sup>2</sup>	88.9	450	40,005	
	Lime concrete (Roof)	"	88.9	850	75,565	
	Mortar filling (Around frame)	m	39.6	500	19,800	
	Trowelled concrete finish (Coping) (W=160)	"	40.6	250	10,150	
	SD-1 (1.92 x 2.0)	Place	2	198,500	397,000	
	AW-1 (1.94 x 1.05)	"	8	45,000	360,000	
	Caulking (Around frame)	m	39.6	600	23,760	
	Wired glass (T=6.8)	m <sup>2</sup>	18.2	4,950	90,090	
	O.P. (Steel doors and windows)	"	21.6	800	17,280	
	Loading test	Set	1		200,000	
	Sub-Total				4,056,300	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
8	HEAVY REPAIR FACTORY					
8-1	Temporary work	Set	1		9,992,300	
8-2	Earth work	"	1		6,508,320	
8-3	Piling work	"	1		19,703,000	
8-4	Concrete work	"	1		16,963,370	
8-5	Reinforcement work	"	1		7,489,000	
8-6	Steel work	"	1		163,634,100	
8-7	Brick masonry	"	1		2,338,000	
8-8	Terrazzo work	"	1		1,648,400	
8-9	Tile work	"	1		637,200	
8-10	Roof and metal work	"	1		52,571,620	
8-11	Plastering work	"	1		3,781,450	
8-12	Metal doors and windows	"	1		58,757,100	
8-13	Wood doors and windows	"	1		287,600	
8-14	Glass work	"	1		4,920,300	
8-15	Painting work	"	1		5,175,500	
8-16	Interior furnishing	"	1		16,736,600	
8-17	Miscellaneous work	"	1		1,211,400	



NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Total				372,778,110	









NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
8-1	TEMPORARY WORK					
	Leveling	Set	1		920,900	
	Scaffold (Outer)	"	1		2,566,600	
	" (Inner)	"	1		2,569,800	
	Scaffold board	"	1		80,000	
	Arrangement and cleaning	"	1		2,527,000	
	Curing	"	1		1,028,000	
	Loading test	"	1		300,000	
	Sub-Total				9,992,300	
8-2	EARTH WORK					
	Excavation	m <sup>3</sup>	1,341	110	147,510	
	Backfilling	"	684	110	75,240	
	Removal of extra soil	"	657	110	72,270	
	Brick foundation (Brick T=76.2)	m <sup>2</sup>	354	600	212,400	
	" (For slab on the earth) Brick T=120.6 Sand T=150	"	4,450	1,300	5,785,000	
	" (For berm) Brick T=76.2 Sand T=150	"	152	950	144,400	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Brick foundation (For machine) Sub-Total	m <sup>2</sup>	55	1,300	71,500 6,508,320	
8-3	<b>PILING WORK</b> Concrete pile(Aggregate and labor) Reinforcement Cement Bentonite Sub-Total	m t " "	2,676 38.5 77 7.4	6,000 62,000 13,000 35,000	16,056,000 2,387,000 1,001,000 259,000 19,703,000	
8-4	<b>CONCRETE WORK</b> Leveling concrete Reinforcement concrete (150 kg/cm <sup>2</sup> ) Concrete(For slab on the earth) (150 kg/cm <sup>2</sup> ) Concrete(For machine foundation) (150 kg/cm <sup>2</sup> ) Concrete(For 1st floor)	m <sup>3</sup> " " " "	17.7 286 908 42 35	11,100 11,100 11,100 11,100 11,100	196,470 3,174,600 10,078,800 466,200 388,500	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Form	m <sup>2</sup>	1,410	1,700	2,397,000	
	Form(For machine foundation)	"	154	1,700	261,800	
	Sub-total				16,963,370	
8-5	REINFORCEMENT WORK					
	Reinforcement SD30 (D10)	t	71.5	68,000	4,862,000	
	" (D13)	"	3	66,000	198,000	
	" (D16 D19)	"	8.3	62,000	514,600	
	Labor of handling assembly	"	82.8	20,000	1,656,000	
	Reinforcement SD30 for machine foundation (D10)	"	0.2	68,000	13,600	
	Reinforcement SD30 for machine foundation (D13)	"	2.8	66,000	184,800	
	Labor of handling assembly	"	3	20,000	60,000	
	Sub-Total				7,489,000	
8-6	STEEL WORK					
	Steel(□)	"	91	145,000	13,195,000	
	" (H)	"	407	84,500	34,391,500	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Steel (L)	t	36	65,500	2,358,000	
	" (C)	"	32.3	85,000	2,745,500	
	" (E)	"	35.8	85,500	3,060,900	
	" (D E )	"	3.4	88,000	299,200	
	" (H.T.B. High tension bolt)	"	6.8	250,000	1,700,000	
	Labor of handling assembly	"	605.5	130,000	78,715,000	
	Erection	"	589	11,000	6,479,000	
	Welding	m	15,800	530	8,374,000	
	Anchor bolt (M20 x 900)	Pcs.	152	1,400	212,800	
	" (M22 x 1,000)	"	40	1,600	64,000	
	" (M24 x 1,100)	"	144	1,800	259,200	
	Transportation and package	Set	1		11,780,000	
	Sub-Total				163,634,100	
8-7	BRICK MASONRY					
	Brick laying (Wall) (T=250)	m <sup>3</sup>	130	17,500	2,275,000	
	" " (Baseboard)	"	3.6	17,500	63,000	
	Sub-Total				2,338,000	

NO	ITEM AND DESCRIPTION	UNTS	QUANTITIES	UNIT COST	TOTAL	REMARKS
8-8	TERRAZZO WORK					
	Terrazzo block (Separate board)	m <sup>2</sup>	50	25,000	1,250,000	
	" ( " ) 500 x 1,200	Place	8	16,200	129,600	
	" (Floor) Sub-Total	m <sup>2</sup>	84	3,200	268,800	
1,648,400						
8-9	TILE WORK					
	Mosaic tile (Floor)	m <sup>2</sup>	58	5,000	290,000	
	100mm x 100mm Tile (Wall)	"	62	5,600	347,200	
	Sub-Total				637,200	
8-10	ROOF AND METAL WORK					
	Folded steel plate (Roof) 1.0	m <sup>2</sup>	4,660	5,000	23,300,000	
	" " (Eaves) 1.0	"	290	5,000	1,450,000	
	Tight frame	m	1,340	950	1,273,000	
	Reinforced angle steel(L75x75x6x2,400)	Pcs.	86	3,000	258,000	
	Asbestos protected metal (Gutter)	m	470	6,000	2,820,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Leader	m	190	2,200	418,000	
	Steel flashing (Eaves)  Girth 510	"	117	2,500	292,500	
	Steel ridge covering	"	23	2,200	50,600	
	Steel siding (Exterior wall)	m <sup>2</sup>	2,050	2,900	5,945,000	
	Steel flashing(Monitor roof)  Grith 415	m	20	2,000	40,000	
	"  " 345	"	10.4	1,600	16,640	
	Steel corner flashing  "	"	51.6	1,300	67,080	
	"  " 170	"	180	900	162,000	
	"  " 150	"	310	800	248,000	
	" (Monitor roof)  " 400	"	213	2,000	426,000	
	"  " 150	"	192	800	153,600	
	" (Ceiling)	"	1,330	1,000	1,330,000	
	" (Ceiling)	"	240	1,500	360,000	
	Eaves closer	"	350	900	315,000	
	Caulking	"	2,500	600	1,500,000	
	Light gauge steel bed (Wall)	m <sup>2</sup>	410	3,500	1,435,000	
	" " (Ceiling)	"	530	1,100	583,000	
	Aluminum corner bead (Ceiling, wall)	m	470	1,000	470,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Aluminum plate (Wall) (T=1.0)	m <sup>2</sup>	202	4,500	909,000	
	Catwalk (Floor)	"	143	12,000	1,716,000	
	" (Handrail)	m	204	6,500	1,326,000	
	Ladder (H=10,000)	Place	2	40,000	80,000	
	Structural steel stair (1,500 x 5,500)	"	2	185,000	370,000	
	" " (1,000 x 10,500)	"	1		300,000	
	Steel pipe handrail of s.s.stair (H=800)	m	58	6,500	377,000	
	Wire mesh	m <sup>2</sup>	350	200	70,000	
	Protective pipe for leader (φ114.3x2,000)	Place	24	9,000	216,000	
	Catch basin lid (300 x 300)	"	18	2,000	36,000	
	Fence (H=1,360)	m	290	5,000	1,450,000	
	Iron grid lid (Floor) (W=250)	"	53.2	6,000	319,200	
	Transportation and package	Set	1		2,489,000	
	Sub-Total				52,571,620	



NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
8-11	PLASTERING WORK					
	Mortar (Exterior baseboard) (H=300)	m	180	1,000	180,000	
	Trowelled concrete finish (Entrance)	m <sup>2</sup>	492	450	221,400	
	Mortar finish (Berm)	"	144	1,000	144,000	
	Trowelled Concrete finish (Floor)	"	3,650	450	1,642,500	
	Mortar finish (Floor)	"	430	1,000	430,000	
	" (Wall)	"	673	1,500	1,009,500	
	Trowelled concrete finish (Machine foundation)	"	43	450	19,350	
	Mortar finish (Drainage ditch)	m	212	600	127,200	
	Mortar filling (Around frame)	"	15	500	7,500	
	Sub-Total				3,781,450	
8-12	METAL DOORS AND WINDOWS					
	1/AW Aluminum sash window (W116,600xH1,500)	Place	2	4,001,400	8,002,800	
	2/AW " ( 19,850x 1,500)	"	2	642,300	1,284,600	
	3/AW " ( 95,400x 1,200)	"	2	3,032,600	6,065,200	
	4/AW " ( 83,840x 1,200)	"	2	2,678,300	5,356,600	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	5/AW Aluminum sash window (W8,150xH1,200) Place		2	279,000	558,000	
	6/AW " ( 2,870x 1,200)	"	1		109,200	
	7/AW " ( 1,400x 1,200)	"	1		65,600	
	8/AW " ( 4,940x 1,200)	"	4	91,100	364,400	
	9/AW " ( 1,600x 1,200)	"	4	27,700	110,800	
	10/AW " ( 3,070x 1,200)	"	4	117,800	471,200	
	11/AW " ( 1,800x 1,200)	"	2	72,900	145,800	
	12/AW " ( 2,870x 350)	"	4	33,100	132,400	
	Angle (All directions)	Set	1		1,927,000	
	1/SD Steel hanger door (W10,200xH4,500) Place		11	1,666,500	18,331,500	
	2/SD " ( 3,000x 3,000)	"	1		480,000	
	3/SD Flush door (Double swinging) ( 1,800x 2,000)	"	1		216,100	
	4/SD " (Double swinging) ( 1,800x 2,000)	"	4	173,700	694,800	
	5/SD " (Single swinging) ( 900x 2,000)	"	1		113,600	
	Steel frame for wood door(L/WD)	"	2	29,300	58,600	
	" "	"	3	24,300	72,900	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Installation	Set	1		8,710,000	
	Transportation and package	"	1		5,486,000	
	Sub-Total				58,757,100	
8-13	WOOD DOORS					
	1/WD Plywood flush door (Double swinging) Place (W1,800 x H2,000)		2	27,000	54,000	
	2/WD " " (Single swinging) ( 800 x 2,000)	"	3	12,000	36,000	
	3/WD " " ( 600 x 1,950)	"	12	8,800	105,600	
	4/WD " " ( 500 x 1,950)	"	2	7,500	15,000	
	Hardware (For WD1)	"	2	8,000	16,000	
	" (For WD2)	"	3	4,000	12,000	
	" (For WD3 & WD4)	"	14	3,500	49,000	
	Sub-Total				287,600	
8-14	GLASS WORK					
	Wired opaque glass	m <sup>2</sup>	994	4,950	4,920,300	
	Sub-Total				4,920,300	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
8-15	PAINTING WORK					
	O.P. (Steel doors and windows)	m <sup>2</sup>	1,537	800	1,229,600	
	" (Ferrous surface)	"	2,430	650	1,579,500	
	" (Steel)	"	1,870	650	1,215,500	
	" (Wood doors and windows)	"	74	850	62,900	
	E.P. (Board, mortar)	"	1,360	800	1,088,000	
	Sub-Total				5,175,500	
8-16	INTERIOR FURNISHING					
	Vinyl (Baseboard)	m	180	420	75,600	
	A.C.S. board (Wall) (T=9)	m <sup>2</sup>	668	2,400	1,603,200	
	" (Ceiling) (T=9)	"	142	2,400	340,800	
	Gypsum board (Ceiling) (T=9)	"	385	1,000	385,000	
	Rock wool spraying (Folded steel plate) (T=30)	"	6,980	2,000	13,960,000	
	Glass wool mat (Wall, Ceiling) (T=50)	"	155	2,400	372,000	
Sub-Total				16,736,600		

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
8-17	MISCELLANEOUS WORK					
	Vinyl curtain and rail (Shower room) (W900 x H1,900)	Place	3	7,000	21,000	
	Screen board (Locker room) ( 5,000 x 2,000)	"	8	100,000	800,000	
	Hook (3 x 60)	m	80	1,000	80,000	
	Post guard	Pcs.	22	12,200	268,400	
	Sink with lid	Place	6	7,000	42,000	
	Sub-Total				1,211,400	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
9	PARTS STORAGE					
9-1	Temporary work	Set	1		4,074,400	
9-2	Earth work	"	1		2,806,560	
9-3	Piling work	"	1		9,633,600	
9-4	Concrete work	"	1		7,991,630	
9-5	Reinforcement work	"	1		3,318,400	
9-6	Steel work	"	1		50,785,150	
9-7	Brick masonry	"	1		1,452,500	
9-8	Terrazzo work	"	1		54,000	
9-9	Roof and metal work	"	1		23,374,270	
9-10	Plastering work	"	1		1,900,000	
9-11	Metal doors and windows	"	1		12,697,000	
9-12	Glass work	"	1		1,366,990	
9-13	Painting work	"	1		3,651,550	
9-14	Interior furnishing	"	1		10,381,860	
9-15	Miscellaneous work	"	1		675,000	
	Total:				134,162,910	








NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
9-1	TEMPORARY WORK					
	Leveling, Marking	Set	1		396,700	
	Scaffold (Outer)	"	1		1,013,500	
	" (Inner) (H5,000)	"	1		862,500	
	Scaffold board	"	1		70,000	
	Arrangement and cleaning	"	1		1,017,700	
	Curing	"	1		414,000	
	Loading test	Place	1		300,000	
	Sub-Total				4,074,400	
9-2	EARTH WORK					
	Excavation	m <sup>3</sup>	968	110	106,480	
	Backfilling	"	468	110	51,480	
	Removal of extra soil	"	500	110	55,000	
	Brick foundation (Brick T=76.2)	m <sup>2</sup>	190	600	114,000	
	" (For slab on the earth) (Brick T=120.6) (Sand T=150)	"	1,827	1,300	2,375,100	


NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Brick foundation (For berm) (Brick T=76.2) (Sand T=150) Sub-Total	m <sup>2</sup>	110	950	104,500	
9-3	PILING WORK					
	Concrete pile(Aggregate and labor)	m	1,308	6,000	7,848,000	
	Reinforcement	t	18.8	62,000	1,165,000	
	Cement	"	38	13,000	494,000	
	Bentonite	"	3.6	35,000	126,000	
	Sub-Total				9,633,600	
9-4	CONCRETE WORK					
	Leveling concrete	m <sup>3</sup>	9.5	11,100	105,450	
	Reinforced concrete (150 kg/cm <sup>2</sup> )	"	173	11,100	1,920,300	
	Concrete(For slab on the earth) (150 kg/cm <sup>2</sup> )	"	379	11,100	4,206,900	



NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
9-5	Concrete(For 1st floor)	m <sup>3</sup>	16.8	11,100	186,480	
	Form	m <sup>2</sup>	925	1,700	1,572,500	
	Sub-Total				7,991,630	
	REINFORCEMENT WORK					
	Reinforcement SD30 (D10)	t	31.5	68,000	2,142,000	
	" (D13)	"	1.3	66,000	85,800	
" (D19)	"	5.3	62,000	328,600		
	Labor of handling assembly	"	38.1	20,000	762,000	
	Sub-Total				3,318,400	
9-6	STEEL WORK					
	Steel SS41 (□) 350	t	24.1	145,000	3,494,500	
	" (H) 200 ~ 700	"	120	84,500	10,140,000	
	" (L) 75 ~ 100	"	13.6	65,500	890,800	
	" (C) 100	"	14.6	85,000	1,241,000	
	" (EL) 9 ~ 28	"	14.1	85,500	1,205,550	
	" (DEL) 1.2	"	1.8	88,000	158,400	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Steel (H.T.B.)	t	1.8	250,000	450,000	
	Labor of handling assembly	"	188.2	130,000	24,466,000	
	Erection	"	182.4	11,000	2,006,400	
	Welding	m	5,130	530	2,718,900	
	Anchor bolt (M22 x 1,000)	Pcs.	72	1,600	115,200	
	" (M20 x 900)	"	96	1,400	134,400	
	Transportation and package	Set	1		3,764,000	
	Sub-Total				50,785,150	
9-7	BRICK MASONRY					
	Brick laying (Wall) (T=250)	m <sup>3</sup>	80	17,500	1,400,000	
	" (Baseboard) (T=76)	"	3	17,500	52,500	
	Sub-Total				1,452,500	
9-8	TERRAZZO WORK					
	Terrazzo block (Counter) (3,360 x 600 x 60)	Place	1		54,000	
	Sub-Total				54,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
9-9	ROOF AND METAL WORK					
	Folded steel plate (T=1.0)	m <sup>2</sup>	1,997	5,000	9,985,000	
	" " (Eaves) (T=1.0)	"	130	5,000	650,000	
	Tight frame	m	550	950	522,500	
	Reinforced angle steel(L75x75x6x2,400)	Pcs.	80	3,000	240,000	
	Asbestos protected metal (Gutter)	m	148	6,000	888,000	
	Leader (P.V.C. φ100)	"	75	2,200	165,000	
	Steel flashing (Eaves)  Girth 510	"	48.3	2,500	120,750	
	Steel ridge covering	"	25.6	2,200	56,320	
	Steel siding (Exterior wall)	m <sup>2</sup>	983	2,900	2,850,700	
	Steel flashing (Monitor roof)  Girth 415	m	18.8	2,000	37,600	
	" "  " 345	"	9.6	1,600	15,360	
	Steel Corner  "	m	26.4	1,300	34,320	
	Steel flashing  " 170	"	161.4	900	145,260	
	"  " 150	"	170	800	136,000	
	" (Monitor roof)  " 400	"	74.2	2,000	148,400	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Steel flashing (Monitor roof)  Girth 150	m	53.4	800	42,720	
	Steel flashing (Window)	"	478	1,000	478,000	
	" (Entrance)	"	32.4	1,500	48,600	
	Eaves closer	"	100	900	90,000	
	Caulking	"	1,007	600	604,200	
	Light gauge steel bed (Wall)	m <sup>2</sup>	245	3,500	857,500	
	" " (Ceiling)	"	2,012	1,100	2,213,200	
	Aluminum corner bead (Ceiling, wall)	m	497	1,000	497,000	
	Catwalk (Floor)	m <sup>2</sup>	25.4	12,000	304,800	
	" (Handrail) (H=800)	m	63.8	6,500	414,700	
	Ladder (H=7,000)	Place	1		28,000	
	Structural steel stair (1,300 x 6,000)	"	1		175,000	
	Steel pipe handrail (H=1,100)	m	36.2	7,000	253,400	
	Grille (For AW4) (3,600 x 1,300)	Place	1		70,200	
	" (For AW5) (3,500 x 1,300)	"	1		68,200	
	Wire mesh (100 x 100 x 3.2φ)	m <sup>2</sup>	168	200	33,600	
	Protective pipe for leader (φ114.3x2000)	Place	10	9,000	90,000	
	Catch basin lid (300 x 300)	"	10	2,000	20,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Transportation and package	Set	1		1,089,940	
	Sub-Total				23,374,270	
9-10	PLASTERING WORK					
	Mortar finish (Exterior baseboard) (H=300)	m	122	1,000	120,000	
	" " (H=100)	"	40	500	20,000	
	Mortar finish (Berm)	m <sup>2</sup>	110	1,000	110,000	
	Trowelled concrete finish (Entrance)	"	150	450	67,500	
	" " (Floor)	"	1,870	450	841,500	
	Mortar finish (Wall)	"	486	1,500	729,000	
	Mortar filling (Around frame)	m	24	500	12,000	
	Sub-Total				1,900,000	
9-11	METAL DOORS AND WINDOWS					
	1/AW Aluminum 26 multiple window and Fix Place window (W47,700 x HL,200)	Place	2	1,688,400	3,376,800	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	2/AW Aluminum 20 multiple window and Fix window (W36,000 x H1,200)	Place	2	641,800	1,283,600	
	3/AW Aluminum 14 multiple window and Fix window (W26,500 x H1,200)	"	2	918,000	1,836,000	
	4/AW Aluminum 4 multiple window and Fix window (W6,970 x H1,200)	"	1		328,400	
	5/AW Aluminum 4 multiple window and Fix window (W6,750 x H1,200)	"	1		138,400	
	6/AW Aluminum 2 multiple window and Fix window (W3,000 x H1,100)	"	1		55,000	
	1/SD Angle door (Double swinging) (W3,200 x H3,000)	"	3	472,300	1,416,900	
	2/SD " (Double swinging) (W2,000 x H3,000)	"	2	301,800	603,600	
	3/SD Glazed flush door (Double swinging) (W2,000 x H2,000)	"	1		222,300	
	4/SD " " (Single swinging) (W800 x H2,000)	"	1		72,000	
	Installation	Set	1		2,143,000	
	Package for export	"	1		1,421,000	
	Sub-Total				12,697,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
9-12	GLASS WORK					
	Transparent glass (T=5mm)	m <sup>2</sup>	20	3,700	74,000	
	Opaque glass (T=4mm)	"	0.4	2,600	1,040	
	Wired opaque glass (T=6.8mm)	"	261	4,950	1,291,950	
	Sub-Total				1,366,990	
9-13	PAINTING WORK					
	O.P. (Steel doors and windows)	m <sup>2</sup>	133	800	106,400	
	" (Ferrous surface)	"	231	650	150,150	
	(Steel)	"	1,548	650	1,006,200	
	E.P. (Board)	"	2,986	800	2,388,800	
	Sub-Total				3,651,550	
9-14	INTERIOR FURNISHING					
	Vinyl (Baseboard)	m	53	420	22,260	
	A.C.S. board (Wall) (T=9mm)	m <sup>2</sup>	974	2,400	2,337,600	
	Gypsum board (Ceiling) (T=9mm)	"	2,012	1,000	2,012,000	
	Rock wood spraying (Folded steel plate) (T=30mm)	"	3,005	2,000	6,010,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
9-15	Sub-Total				10,381,860	
	MISCELLANEOUS WORK					
	Roof fan (Table frame)	Place	5	25,000	125,000	
	Corridor (14,300 x 3.85)	"	1		550,000	
	Sub-Total					675,000



NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	<b>BUILDING WORK</b>					
	Direct temporary work	Set	1		3,499,700	
	Earth work	"	1		2,134,180	
	Piling work	"	1		10,074,600	
	Concrete work	"	1		7,436,180	
	Reinforcement work	"	1		2,793,200	
	Steel work	"	1		47,951,800	
	Brick Masonry	Set	1		1,855,000	
	Terrazzo work	"	1		511,100	
	Tile work	"	1		374,000	
	Roof and metal work	"	1		19,663,680	
	Plastering work	"	1		2,014,850	
	Metal doors and windows	"	1		18,402,500	
	Wood doors and windows	"	1		218,000	
	Glass work	"	1		1,182,200	
	Painting work	"	1		5,180,350	
	Interior furnishing	"	1		7,478,580	
	Miscellaneous work	"	1		338,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Total:				131,107,920	







NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Direct temporary work					
	Leveling	Set	1		301,800	1,312m <sup>2</sup> x 230
	Scaffold (Outer)	"	1		895,400	1,092m <sup>2</sup> x 820
	" (Inner)	"	1		726,500	1,453m <sup>2</sup> x 500
	Scaffold board	"	1		70,000	
	Arrangement and cleaning	"	1		857,300	1,453 x 590
	Curing	"	1		348,700	1,453 x 240
	Loading test	"	1		300,000	
	Sub-Total:				3,499,700	
	EARTH WORK					
	Excavation	m <sup>3</sup>	1,119	110	123,090	
	Backfilling	"	665	110	73,150	
	Removal of extra soil	"	454	110	49,940	
	Brick foundation (For foundation brick 76.2)	m <sup>2</sup>	224	600	134,400	
	" Brick 120.6 Sand 150	"	1,200	1,300	1,560,000	Brick 950 + sand 350
	" Brick 06.2 Sand 150	"	108	950	102,600	Brick 600 + sand 350

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Brick foundation (For machine foundation)	m	70	1,300	91,000	
	Sub-Total:				2,134,180	
	<b>PILING WORK</b>					
	Concrete pile (Aggregate and labor)		1,368	6,000	8,208,000	
	(Reinforcement)	t	19.7	62,000	1,221,400	1,368x14.4K=19
	(Cement)	t	39.4	13,000	512,200	1,368x0.08=109.4m 109.4x0.3t=32.8x1.2 =39.4
	(Bentonite)	"	3.8	35,000	133,000	1,368x2.5Kx1.1=3.8t
	Sub-Total:				10,074,600	
	<b>CONCRETE WORK</b>					
	Leveling concrete	m <sup>3</sup>	11.2	11,100	124,320	
	Reinforced concrete (150kg/cm <sup>2</sup> )	"	189	11,100	2,097,900	
	Concrete for slab on the earth	"	253	11,100	2,808,300	
	Concrete for machine foundation	"	24.5	11,100	271,950	
	Concrete for 1st floor	"	16.1	11,100	178,710	



NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Form	m <sup>2</sup>	1,010	1,700	1,717,000	
	Form for machine foundation	"	140	1,700	238,000	
	Sub-Total:				7,436,180	
	REINFORCEMENT WORK					
	Reinforcement SD30 (D10)	t	23.4	68,000	1,591,200	
	" (D13)	"	1.3	66,000	85,800	
	" (D16 D19)	"	6.1	62,000	378,200	
	Labor of handling assembly	"	30.8	20,000	616,000	
	Reinforcement for machine foundation	"	0.8	68,000	54,400	
	" (D13)	"	0.6	66,000	39,600	
	Sub-total:				7,436,180	
	REINFORCEMENT WORK					
	Reinforcement SD30 (D10)	t	23.4	68,000	1,591,200	
	" (D13)	"	1.3	66,000	85,800	
	" (D16 D19)	"	6.1	62,000	378,200	
	Labor of handling assembly	"	30.8	20,000	616,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Reinforcement for machine foundation (SD30) (D10)	t	0.8	68,000	54,400	
	" (D13)	"	0.6	66,000	39,600	
	Labor of handling assembly	"	1.4	20,000	28,000	
	Sub-Total:				2,793,200	
	STEEL WORK					
	Steel 0 350	t	23.4	145,000	3,393,000	
	" H 200 - 700	"	109.8	84,500	9,278,100	
	" L 75 - 100	"	13.5	65,500	884,250	
	" C 100	"	12.2	85,000	1,037,000	
	" R 9 - 28	"	14.7	85,500	1,256,850	
	" DR 1.2	"	1.8	88,000	158,400	
	" H.T.B.	t	3.4	250,000	850,000	
	Labor of handling assembly	t	175.4	130,000	22,802,000	
	Erection	"	173	11,000	1,903,000	
	Welding	m	5,040	530	2,671,200	
	Anchor bolt (M20 x 900)		102	1,400	142,800	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Anchor bolt (M22 x 1,000)		72	1,600	115,200	
	Transportation and package	Set	1		3,460,000	173t x 20000
	Sub-Total:				47,951,800	
	<b>BRICK MASONRY</b>					
	Brick laying (Wall) T=250	m <sup>3</sup>	103	17,500	1,802,500	
	" (Base board)	"	3	17,500	52,500	130 m
	Sub-Total:				1,855,000	
	<b>TERRAZZO WORK</b>					
	Terrazzo block (Separate board)	m <sup>2</sup>	18.5	25,000	462,500	With hardware
	" (Separate board 500 x 1,200)		3	16,200	48,600	
	Sub-Total:				511,100	
	<b>TILE WORK</b>					
	Mosaic tile (Floor)	m <sup>2</sup>	30	5,000	150,000	
	100m x 100m Tile (Wall)	"	40	5,600	224,000	
	Sub-Total:				374,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	ROOF AND METAL WORK					
	Folded steel plate (Roof) 1.0	m <sup>2</sup>	1,568	5,000	7,840,000	
	Folded steel plate (Eaves)	"	36	5,000	180,000	
	Tight frame	m	405	950	384,000	
	Reinforced angle steel (L75 x 75 x 6 x 2,400)		68	3,000	204,000	
	Asbestos protected metal	m	95	6,000	570,000	
	Leader (P.V.C. φ100)	"	84	2,200	184,800	
	Steel flashing  Girth 510	m	18	2,500	45,000	
	Ridge covering	"	20	2,200	44,000	
	Steel siding (Exterior wall)	m <sup>2</sup>	790	2,900	2,291,000	
	Steel flashing (Monitor roof)	m	18	2,000	36,000	
	 Girth 415					
	"  Girth 345	m	9.6	1,600	15,360	
	Corner steel 0.8  Girth	"	26.4	1,300	34,320	
	Steel flashing 0.8  Girth 170	"	130	900	117,000	
	Steel flashing 0.8  Girth 150	m	151	800	120,800	



NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Steel flashing  Girth 400	m	74.4	2,000	148,800	
	"  Girth 150	"	54.4	800	43,520	
	Steel flashing (Window)	"	583	1,000	583,000	
	" (Entrance)	"	72	1,500	108,000	
	Eaves closer	"	90	900	81,000	
	Caulking	"	1,100	600	660,000	
	Light gauge steel bed (Wall)	m <sup>2</sup>	538	3,500	1,883,000	
	" (Ceiling)	"	174	1,100	191,400	
	Aluminum corner bead (Ceiling, wall)	m	1,140	1,000	1,140,000	
	Catwalk (Floor)	m <sup>2</sup>	46	12,000	552,000	
	" (Handrail)	m	64	6,500	416,000	
	Ladder (H7,000)		1		28,000	
	Structural steel stair (1,450x5,500)	Place	1		185,000	
	Steel pipe handrail	m	6	7,000	42,000	
	Louver (18,000W x 2,000H)		1		540,000	
	Wire mesh	m <sup>2</sup>	160	200	32,000	
	Protective pipe for leader (Ø114.3 x 3,000)	Place	12	9,000	108,000	
	Catch basin lid	"	12	2,000	24,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Transportation and package	Set	1		831,680	
	Sub-Total:				19,663,680	
	<b>PLASTERING WORK</b>					
	Mortar finish (Exterior base board) (H300)	m	140	1,000	140,000	
	Trowelled concrete finish (Entrance)	m <sup>2</sup>	128	450	57,600	
	Mortar finish (Berm)	"	108	1,000	108,000	
	Trowelled concrete finish (Floor)	m <sup>2</sup>	1,080	450	486,000	
	Mortar finish (Floor)	"	138	1,000	138,000	
	Mortar finish (Wall)	"	693	1,500	1,039,500	
	Trowelled concrete finish for machine foundation	"	45	450	20,250	
	Mortar filling (Around frame)	m	51	500	25,500	
	Sub-Total:				2,014,850	
	<b>METAL DOORS AND WINDOWS</b>					
	Aluminum window (9000W x 1200H)		5	183,700	918,500	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Aluminum window (9,000W x 1,200H)	Place	2	231,100	462,200	
	"	"	6	239,700	1,438,200	
	"	"	6	409,200	2,455,200	
	" (3,380W x 1,200H)	"	14	177,400	2,483,600	
	" (4,520W x 1,200H)	"	1		165,000	
	" (3,380W x 1,200H)	"	2	83,200	166,400	
	" (2,470W x 1,200H)	"	3	59,600	178,800	
	Steel flush door (1,600W x 2,800H)	"	1		153,700	
	Steel angle door	"	1		148,400	
	" (3,000W x 3,000H)	"	2	319,700	639,400	
	" (3,000W x 3,900H)	"	4	594,600	2,378,400	
	" ( 800W x 2,000H)	"	3	75,100	225,300	
	" (1,600W x 2,800L)	"	2	140,700	281,400	
	" (2,800W x 2,800H)	"	1		418,600	
	" (3,000W x 2,800H)	"	1		444,200	
	Steel frame for wood door WD1 use	"	3	28,300	84,900	
	" WD2 use	"				
	" WD3 use	"	1		24,300	
	Installation	Set	1		2,985,000	
						A 2,156,000 S 829,000

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Transportation and package	Set	1		2,351,000	
	Sub-Total:				18,402,500	
	WOOD DOORS					
	Plywood flush door (Double swinging) (Glazed, with louver 1,600W x 2,000H)	Place	2	33,000	66,000	
	Plywood flush door (Double swinging) (Glazed 1,600W x 2,000H)	"	1		27,000	
	Plywood flush door (Single swinging) 600W x 1,950H	"	3	8,600	25,800	
	" 600W x 1,950	"	2	8,600	17,200	
	Hardware (WD1, WD2)	"	3	12,500	37,500	
	Hardware (WD3)	"	1		10,500	
	" (WD4, WD5)	"	5	3,500	17,500	
	Sub-Total:				218,000	
	GLASS WORK					
	Transparent glass (T=5)	m <sup>2</sup>	9	3,700	33,300	
	Opaque glass (T=4)	"	4	2,600	10,400	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Wired opaque glass (T=6.8)	m	230	4,950	1,138,500	
	Sub-Total:				1,182,200	
	<b>PAINTING WORK</b>					
	O. P. (Steel doors and windows)	m	292	800	233,600	
	" (Ferrous surface)	"	140	650	481,000	
	" (Steel)	"	5,250	650	3,412,500	
	" (Wood doors and windows)	"	41	850	34,850	
	E. P. (Board, Mortar)	"	1,273	800	1,018,400	
	Sub-Total:				5,180,350	
	<b>INTERIOR FURNISHING</b>					
	Vinyl (Baseboard)	m	99	420	41,580	
	A.C.S. board (Wall) 9mm	m	1,075	2,400	2,580,000	
	A.C.S. board (Ceiling) 9mm	"	30	2,400	72,000	
	Gypsum board (Ceiling)	"	145	1,000	145,000	
	Rock wool spraying (Folded steel plate)	"	2,320	2,000	4,640,000	
	Sub-Total:				7,478,580	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	MISCELLANEOUS WORK					
	Vinyl and rail (Shower room) (1,000W x 1,900H)	Place	2	7,000	14,000	
	Screen board (Locker room) (4,000W x 2,000H)	"	2	80,000	160,000	
	Hook (Locker room) 3 x 60	m	39	1,000	39,000	
	Fan table	Place	5	25,000	125,000	
	Sub-Total:				338,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
11	CAR WASHER	Set	1		148,113	
	Temporary work					
	Excavation	m <sup>3</sup>	298.0	110	32,780	
	Backfilling	"	47.0	110	5,170	
	Removal of extra soil	"	251.0	110	26,510	
	Sand leveling	"	742	350	259,700	
	Brick soling	"	781.5	600	468,900	
	Reinforced concrete	"	129.0	11,100	1,431,900	
	Form	m <sup>2</sup>	246.0	1,700	418,200	
	Deformed reinforcement (D10)	t	4.1	68,000	278,800	
	Deformed reinforcement (D16 - D25)	m	0.18	62,000	11,160	
	Labor of handling assembly	"	5.28	20,000	105,600	
	Steel pipe	Kg	948.0	85	80,580	
	"	"	373	86	32,078	
	Welding	m	13.6	530	7,208	
	Anchor bolt (16φ L=600)	Pcs.	40	1,000	40,000	
	Shop processing	Kg	1,321.0	130	171,730	
	Erection	"	1,321.0	11	14,531	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Transportation	Set	1		25,000	
	Brick laying	m <sup>3</sup>	41.9	17,500	733,250	
	Trowelled concrete finish (Floor)	m <sup>2</sup>	537.0	450	241,650	
	Trowelled mortar finish (Floor)	"	32.4	1,000	32,400	
	Steel pipe handrail (42.7 H=800)	m	188	3,000	564,000	
	Mortar (Under base)	m <sup>2</sup>	3.6	2,000	7,200	
	Iron grid lid (W=400)	m	56.0	12,500	700,000	
	" (500 x 1,000)	Pcs.	4	16,000	64,000	
	Ferrous surface O.P.	m <sup>2</sup>	215.8	800	172,640	
	Sub-Total				6,073,100	



NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
12	PAINT GREASE & OIL STORAGE					
	Temporary work	Set	1		172,500	
	Excavation	m <sup>3</sup>	141.0	110	15,510	
	Backfilling	"	88.2	110	9,702	
	Removal of extra soil	"	52.8	110	5,808	
	Sand levelling	"	282	350	98,700	
	Brick soiling (For foundation)	"	32	600	19,200	
	" (For slab on the earth)	m <sup>2</sup>	216	600	129,600	
	" (For berm)	"	11	600	6,600	
	Leveling concrete	m <sup>3</sup>	2.4	11,100	26,640	
	Concrete (For slab on the earth)	"	27.4	11,100	304,140	
	Reinforced concrete	"	71.5	11,100	793,650	
	Form	m <sup>2</sup>	603.0	1,700	1,025,100	
	Deformed reinforcement (D10)	t	4.2	68,000	285,600	
	" (D13)	"	0.38	66,000	25,080	
	" (D16 - D25)	"	4.0	62,000	248,000	
	Labor of handling assembly	"	8.58	20,000	171,600	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Brick laying (Wall)	m <sup>3</sup>	33.7	17,500	589,750	
	Trowelled concrete finish (Floor)	m <sup>2</sup>	143.7	450	46,665	
	Lime concrete (Roof)	"	108.7	850	92,395	
	Mortar filling (Around frame)	m	51.6	500	25,800	
	Trowelled concrete (Coping) (W=160)	"	66.9	250	16,725	
	1/SD Steel flush door 1.92 x 2.0	Place	2	198,500	397,000	
	1/AW Sliding aluminum window(1.94x1.05)	"	6	45,000	270,000	
	Caulking (Around frame)	m	51.6	600	30,960	
	Wired glass (T=6.8)	m <sup>2</sup>	14.1	4,950	69,795	
	Ferrous surface O.P. (Steel doors and windows)	"	20.7	800	16,560	
	Folded steel plate (Roof)	"	312.8	6,000	1,876,800	
	Bracket 150 x 75 x 6.5	Kg	430.0	200	86,000	
	Loading test	Set	1		200,000	
	Sub-Total				7,073,900	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
13	SUB STATION					
	Temporary work	Set	1		146,833	
	Excavation	m <sup>3</sup>	123.1	110	13,541	
	Backfilling	"	83.5	110	9,185	
	Removal of extra soil	"	39.6	110	4,356	
	Sand leveling	m <sup>2</sup>	179	350	62,650	
	Brick soiling (For foundation)	"	27.5	600	16,500	
	" (For slab on the earth)	m <sup>3</sup>	185	600	111,000	
	" (For berm)	"	5.3	600	3,180	
	Leveling concrete	"	2.2	11,100	24,420	
	Concrete (For slab on the earth)	"	23.5	11,100	260,850	
	Reinforced concrete	"	53.1	11,100	589,410	
	Form	m <sup>2</sup>	472.0	1,700	802,400	
	Deformed reinforcement (D10)	t	4.53	68,000	308,040	
	" (D16 - D25)	"	3.67	62,000	227,540	
	Labor of handling assembly	"	8.2	20,000	164,000	
	Brick laying (Wall)	m <sup>3</sup>	45.4	17,500	794,500	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Trowelled concrete finish (Floor)	m <sup>2</sup>	117.5	450	52,875	
	Trowelled mortar finish (Floor)	"	8.0	1,000	8,000	
	Lime concrete (Roof)	"	117.5	850	99,875	
	Mortar filling (Around frame)	m	88.3	500	44,150	
	Trowelled concrete finish (Coping) (W-160)	"	44.3	250	11,075	
	1/SD Steel flush door (800 x 2,000) Place	Place	1		140,000	
	2/SD " (800 x 2,000) Glazed	"	1		104,500	
	3/SD Steel angle door (2,500 x 3,970) with fix transom	"	1		422,800	
	1/AW Aluminum sliding window(2,470x1,200)	"	1		88,200	
	2/AW " (1,200x1,200)	"	1		40,700	
	3/AW Aluminum fixed window (2,500x 400)	"	4	174,500	698,000	
	1/AG Aluminum Louver (2,500x 400)	"	5	88,200	441,000	
	Caulking (Around frame)	m	82.7	600	49,620	
	Wired glass (T=6.8)	m <sup>2</sup>	9.4	4,950	46,530	
	Transparent glass (T=4)	"	0.4	3,000	1,200	
	Ferrous surface O.P. (Steel doors and windows)	"	37.9	800	30,320	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Loading test	Set	1		200,000	
	Sub-Total				5,920,505	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
14	WATCHMAN STATION					
	Temporary work	Set	1		8,093	
	Excavation	m <sup>3</sup>	13.1	110	1,441	
	Backfilling	"	8.6	110	946	
	Removal of extra soil	"	4.5	110	495	
	Sand leveling	m <sup>2</sup>	15	350	5,250	
	Brick soiling	"	35.5	600	21,300	
	Reinforced concrete	m <sup>3</sup>	0.6	11,100	6,660	
	Form	m <sup>2</sup>	3.0	1,700	5,100	
	Steel pipe	Kg	303.0	85	25,755	
	H-section steel	"	159	85	13,515	
	Flat steel	"	13.4	86	1,152	
	Light gauge steel	"	23.0	65	1,495	
	Steel plate	"	89.5	85	7,607	
	Round steel (16φ)	"	34.5	68	2,346	
	H.T.B.	"	4.4	250	1,100	
	Welding	m	31.3	530	16,589	
	Turnbuckle (For 16φ)	Pair	10	2,500	25,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Anchor bolt (16φ ϕ=400)	Pcs.	16	750	12,000	
	Mortar (under base)	m <sup>2</sup>	0.6	2,000	1,200	
	Shop processing	Kg	622.4	130	80,912	
	Erection	"	626.8	11	6,894	
	Transportation	Set	1		20,000	
	Trowelled concrete finish (Floor)	m <sup>2</sup>	1.4	450	630	
	Decking	Kg	47.1	100	4,710	
	Folded steel plate (Roof)	m <sup>2</sup>	5.8	6,000	34,800	
	Steel pipe (Ladder)	Place	1		7,500	
	" (Handrail) (60.5φ)	m	8.2	1,500	12,300	
	Chip board (T=25)	m <sup>2</sup>	1.6	950	1,520	
	Ferrous surface O.P.	"	5.5	800	4,400	
	Sub-Total				330,710	
	Total		8	330,710	2,645,680	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
15	GAS STATION					
	Temporary work	Set	1		42,850	
	Excavation	m <sup>3</sup>	138.5	110	15,235	
	Backfilling	"	44.6	110	4,906	
	Removal of extra soil	"	9.39	110	10,329	
	Sand leveling	m <sup>2</sup>	385	350	134,750	
	Brick soling	"	225	600	135,000	
	Reinforced concrete	m <sup>3</sup>	33.4	11,100	370,740	
	Form	m <sup>2</sup>	51.3	1,700	87,210	
	Deformed reinforcement (D10)	t	4.64	68,000	315,520	
	" (D13)	"	0.1	66,000	6,600	
	Labor of handling assembly	"	4.74	20,000	94,800	
	Trowelled concrete finish (Floor)	m <sup>2</sup>	100.0	450	45,000	
	Waterproof mortar (inside pit)	"	40.4	1,300	52,520	
	Expansion asphalt compound (T=20 H=200)	m	18.8	300	5,640	
	Pit lid (φ400)	Place	1		28,000	



NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
16	EXTERIOR WORK					
16-1	Well house	Set	1		473,700	1 Place
16-2	Pond	"	1		2,987,700	1 "
16-3	Gate door (1)	"	1		1,728,660	1 "
16-4	" (2)	"	1		3,340,200	3 "
16-5	Grease trap (1)	"	1		97,000	1 "
16-6	" (2)	"	1		59,430	1 "
16-7	Post (1) (H=4,000)	"	1		200,690	7 "
16-8	" (2) (H=2,000)	"	1		112,650	5 "
16-9	" (3) (H=4,000)	"	1		254,000	2 "
16-10	Sump pit (700 x 610)	"	1		703,000	19 "
16-11	P.V.C. pipe	"	1		789,000	50m
16-12	Iron grid lid	"	1		12,875,000	1,030m
16-13	Brick pavement (Parking)	"	1		12,359,340	10,710m <sup>2</sup>
16-14	Asphalt pavement (Road)	"	1		47,883,675	16,725m <sup>2</sup>

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
16-15	Concrete, trench	Set	1		17,252,800	410m
16-16	Concrete, U type ditch (600x300 - 600)	"	1		9,835,380	1,212 m <sup>2</sup>
16-17	" (600x600 - 800)	"	1		11,240,400	870m
16-18	Gasoline trap	"	1		291,210	1 place
16-19	Waste oil trap	"	1		494,720	2 places
16-20	Water supply tower	"	1		26,400,000	
	Sub-Total				149,378,555	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
16-1	WELL HOUSE					
	Temporary work	Set	1		11,592	
	Excavation	m <sup>3</sup>	6.2	110	682	
	Backfilling	"	1.4	110	154	
	Removal of extra soil	"	4.8	110	528	
	Sand leveling	"	22	350	7,700	
	Brick soling	"	22.5	600	13,500	
	Concrete (For slab on the earth)	"	2.8	11,100	31,080	
	Reinforced concrete	"	5.6	11,100	62,160	
	Form	m <sup>2</sup>	9.8	1,700	16,660	
	Iron grid lid (400 x 1,000)	m	31	12,500	387,500	
	Sub-Total				1,756,600	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Deformed reinforcement (D10)	Kg	130	68	8,840	
	" (D16)	"	92	62	5,704	
	Labor of handling assembly	"	222.0	20	4,440	
	Brick laying (Ornamental)	m <sup>3</sup>	0.3	20,000	6,000	
	"	"	3.7	17,500	64,750	
	Trowelled concrete finish (Floor)	m <sup>2</sup>	10.5	450	4,725	
	Folded steel plate (Roof)	"	12.9	6,000	77,400	
	Anchor bolt (1.3φ &=500)	Pcs.	8	1,000	8,000	
	Flat steel (FB - 6x100)	Kg	20.0	86	1,720	
	Light gauge steel	"	17.0	65	1,105	
	Mortar filling (Around frame)	m	3.2	500	1,600	
	Steel flush door (SD-1) (0.8 x 2.0)	Place	1		140,000	
	Caulking (Around frame)	m	3.2	600	1,920	
	Ferrous surface O.P. (Steel doors and windows)	m <sup>2</sup>	4.3	800	3,440	
	Sub-Total				473,700	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
16-2	POND					
	Temporary work	Set	1		72,842	
	Excavation	m <sup>3</sup>	772.4	110	84,964	
	Backfilling	"	26.1	110	2,871	
	Removal of extra soil	"	746.3	110	82,093	
	Brick soling	m <sup>2</sup>	63	600	37,800	
	Reinforced concrete	m <sup>3</sup>	5.3	11,100	58,830	
	Form	m <sup>2</sup>	26.7	1,700	45,390	
	Deformed reinforcement (D10)	Kg	0.27	68,000	18,360	
	Labor of handling assembly	"	0.27	20,000	5,400	
	Brick flooring	m <sup>3</sup>	0.7	17,500	12,250	
	"	"	25.0	17,500	437,500	
	Mortar finish (T=50)	m <sup>2</sup>	10.6	1,500	15,900	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Mortar on metal lath (Pond) (T=50)	m <sup>2</sup>	845.4	2,500	2,113,500	
	Sub-Total				2,987,700	
16-3	GATE DOOR (1) (15,000 x 2,004)					
	Temporary work	Set	1		42,169	
	Excavation	m <sup>3</sup>	9.69	110	1,065	
	Backfilling	"	2.19	110	240	
	Removal of extra soil	"	7.5	110	825	
	Reinforced concrete	"	7.73	11,100	85,803	
	Form	m <sup>2</sup>	8.76	1,700	14,892	
	Deformed reinforcement (D10)	Kg	234.0	68	15,912	
	" (D13)	"	559.0	66	36,894	
	Labor of handling assembly	"	793.0	20	15,860	
	Gate door W(3.5+3.5) x H24	Pair	1		1,515,000	
	Sub-Total				1,728,660	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
16-4	GATE DOOR (2) (11,000 x 2,004).					
	Temporary work	Set	1		27,185	
	Excavation	m <sup>3</sup>	7.19	110	790	
	Backfilling	"	1.69	110	185	
	Removal of extra soil	"	5.5	110	605	
	Reinforced concrete	"	5.67	11,100	62,937	
	Form	m <sup>2</sup>	6.7	1,700	11,390	
	Deformed reinforcement (D10)	Kg	171.0	68	11,628	
	" (D13)	"	410.0	66	27,060	
	Labor of handling assembly	"	581.0	20	11,620	
	Gate door W(2.5+2.5) x H2.4	Pair	1		960,000	
	Sub-Total				1,113,400	
	Total	Place	3		3,340,200	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
16-5	GREASE TRAP (1) (1,860 x 1,360 x 1,330)					
	Temporary work	Set	1		2,332	
	Excavation	m <sup>3</sup>	11.5	110	1,265	
	Backfilling	"	7.3	110	803	
	Removal of extra soil	"	4.23	110	465	
	Sand leveling	m <sup>2</sup>	4.8	350	1,680	
	Brick soling	"	5.2	600	3,120	
	Reinforced concrete	"	1.65	11,100	18,315	
	Form	m <sup>2</sup>	15.04	1,700	25,568	
	Deformed reinforcement (D10)	Kg	139.0	68	9,452	
	Labor of handling assembly	"	139.0	20	2,780	
	Trowelled mortar finish (Floor)	m <sup>2</sup>	1.45	1,000	1,450	
	" (Wall)	"	6.1	1,500	9,150	
	Steel lid 1.43 x 0.98	Place	1		7,500	
	Ferrous surface O.P.	m <sup>2</sup>	16.4	800	13,120	



NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Sub-Total				97,000	
16-6	GREASE TRAP (2) 1,460 x 1,110 x 1,080					
	Temporary work	Set	1		1,449	
	Excavation	m <sup>3</sup>	7.0	110	770	
	Backfilling	"	4.66	110	512	
	Removal of extra soil	"	2.34	110	257	
	Sand leveling	m <sup>2</sup>	3.3	350	1,155	
	Brick soling	"	3.4	600	2,040	
	Reinforced concrete	m <sup>3</sup>	1.25	11,100	13,875	
	Form	m	9.2	1,700	15,640	
	Deformed reinforcement (D10)	Kg	105.0	68	7,140	
	Labor of handling assembly	"	105.0	20	2,100	
	Trowelled mortar finish (Floor)	m <sup>2</sup>	0.79	1,000	790	
	" " (Wall)	"	3.54	1,500	5,310	

NO	ITEM AND DESCRIPTION	UNTS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Steel lid 1.08 x 0.73	Place	1		7,000	
	Ferrous surface O.P.	m <sup>2</sup>	1.74	800	1,392	
	Sub-Total				59,430	
16-7	PIPING RACK H=4,000'					
	Temporary work	Set	1		694	
	Excavation	m <sup>3</sup>	2.47	110	271	
	Backfilling	"	2.0	110	220	
	Removal of extra soil	"	0.47	110	51	
	Sand leveling	m <sup>2</sup>	1		350	
	Brick soling	"	1.1	600	660	
	Concrete	m <sup>3</sup>	0.56	11,100	6,216	
	Form	m <sup>2</sup>	2.23	1,700	3,791	
	Pipe φ60.5 x 3.2	Kg	47.5	250	11,875	
	Ferrous surface O.P.	m <sup>2</sup>	1.6	800	1,280	
	Base plate	Kg	12.4	250	3,100	
	Trowelled concrete finish	m <sup>2</sup>	0.36	450	162	
	Sub-Total				228,670	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Total	Place	7		200,690	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
16-8	PIPING RACK (2) H=2,000					
	Temporary work	Set	1		547	
	Excavation	m <sup>3</sup>	2.47	110	271	
	Backfilling	"	2.0	110	220	
	Removal of extra soil	"	0.47	110	51	
	Sand leveling	m <sup>2</sup>	1	350	350	
	Brick soling	"	1.1	600	660	
	Concrete	m <sup>3</sup>	0.56	11,100	6,216	
	Form	m <sup>2</sup>	2.26	1,700	3,842	
	Pipe φ60.5 x 3.2	Kg	28.5	250	7,125	
	Ferrous surface O.P.	m <sup>2</sup>	0.8	800	640	
	Base plate	Kg	12.4	250	3,100	
	Trowelled concrete finish	m <sup>2</sup>	0.36	450	162	
	Sub-Total				22,530	
	Total	Place	5		112,650	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
16-9	PIPING RACK (3) H=4,000					
	Temporary work	Set	1		3,104	
	Excavation	m <sup>3</sup>	5.27	110	579	
	Backfilling	"	4.2	110	462	
	Removal of extra soil	"	1.07	110	117	
	Sand leveling	"	2.2	350	770	
	Brick soling	"	2.3	600	1,380	
	Concrete	"	0.78	11,100	8,658	
	Form	m <sup>2</sup>	4.84	1,700	8,228	
	Pipe φ139.8	Kg	350.0	250	87,500	
	Ferrous surface O.P.	m <sup>2</sup>	8.9	800	7,120	
	Base plate	Kg	35.6	250	8,900	
	Trowelled concrete finish	m <sup>2</sup>	0.85	450	382	
	Sub-Total				127,200	
	Total	Place	2		254,400	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
16-10	SUMP PIT					
	Temporary work	Set	1		930	
	Excavation	m <sup>3</sup>	5.13	110	564	
	Backfilling	"	3.8	110	418	
	Removal of extra soil	"	1.33	110	146	
	Sand leveling	"	2	350	700	
	Brick soling	"	2.1	600	1,260	
	Reinforced concrete	"	0.62	11,100	6,882	
	Form	m <sup>2</sup>	6.63	1,700	11,271	
	Deformed reinforcement (D10)	Kg	18.9	68	1,285	
	" (D13)	"	4.2	66	277	
	Labor of handling assembly	"	23.1	20	462	
	Mortar finish (Inside)	m <sup>2</sup>	2.8	1,200	3,360	
	Iron grid lid (700 x 610)	Place	1	10,000	10,000	
	Sub-Total				37,000	
	Total	Place	19		703,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS	
16-11	P.V.C. PIPE						
	Temporary work	Set	1		380		
	Excavation	m <sup>3</sup>	1.27	110	139		
	Backfilling	"	0.63	110	69		
	Removal of extra soil	"	0.64	110	70		
	Sand leveling	m <sup>2</sup>	1.4	350	490		
	Brick soling	"	1.5	600	900		
	Reinforced concrete	m <sup>3</sup>	0.4	11,100	4,440		
	Form	m <sup>2</sup>	1.13	1,700	1,921		
	Deformed reinforcement (D10)	Kg	9.9	68	673		
	Labor of handling assembly	"	9.9	20	198		
	P.V.C. pipe (φ400)	m	1		6,500		
	Sub-Total:		50	15,780	15,780	789,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
16-12	IRON GRID LID					
	Iron grid lid. (400 x 1,000 x 3.8)	m	1		7,200	
	Bracket	"	1		2,100	
	Installation	"	1		3,200	
	Sub-Total				12,500	
	Total	m	1,030	12,500	12,875,000	
16-13	BRICK PAVEMENT (PARKING)					
	Temporary work	Set	1		28	
	Excavation	m <sup>3</sup>	0.35	110	38	
	Removal of extra soil	"	0.35	110	38	
	Sand leveling (T=0.15)	"	1	450	450	
	Brick soling	"	1		600	
	Sub-Total				1,154	
	Total	m <sup>2</sup>	10,710	1,154	12,359,340	



NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
16-14	ASPHALT PAVEMENT (ROAD)					
	Temporary work	Set	1		69	
	Excavation	m <sup>3</sup>	0.43	110	47	
	Removal of extra soil	"	0.43	110	47	
	Sand leveling (T=0.15)	m <sup>2</sup>	1	300	300	
	Brick soling (T=0.2)	"	1	900	900	
	Asphalt pavement (t=76)	"	1.0	1,500	1,500	
	Sub-Total				2,863	
			16,725		47,883,675	
	Total	m <sup>2</sup>	16,725	2,863	47,883,675	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
16-15	CONCRETE TRENCH LID					
	Temporary work (1.762 x 1.484)	Set	1		1,029	
	Excavation	m <sup>3</sup>	5.7	110	627	
	Backfilling	"	2.22	110	244	
	Removal of extra soil	"	3.48	110	382	
	Sand leveling	"	0.3	3,500	1,050	
	Brick soling	"	0.3	6,000	1,800	
	Reinforced concrete	"	0.88	11,100	9,768	
	Form	m <sup>2</sup>	4.94	1,700	8,466	
	Deformed reinforcement (D10)	Kg	35.9	68	2,441	
	Labor of handling assembly	"	35.9	20	718	
	Brick laying	m <sup>3</sup>	0.45	17,500	7,875	
	Trowelled mortar finish (Floor)	m <sup>2</sup>	1.5	1,000	1,500	
	" " (Wall)	"	2.36	1,500	3,540	
	Asphalt pavement (Exterior floor)(t=76)	"	1.76	1,500	2,640	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Total	m	410	42,080	42,080 17,252,800	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
16-16	CONCRETE U TYPE DITCH					
	Temporary work (600 x 550) (300 - 600)	Set	1		197	
	Excavation	m <sup>3</sup>	1.18	110	129	
	Backfilling	"	0.63	110	69	
	Removal of extra soil	"	0.55	110	60	
	Sand leveling	"	0.12	3,500	420	
	Brick soling	"	0.1	6,000	600	
	Reinforced concrete	"	0.22	11,100	2,442	
	Form	m <sup>2</sup>	1.96	1,700	3,332	
	Deformed reinforcement (D10)	Kg	7.4	68	503	
	" (D13)	"	2.5	66	165	
	Labor of handling assembly	"	9.9	20	198	
	Sub-Total				8,115	
	Total	m <sup>2</sup>	1,212	8,115	9,835,380	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
16-17	CONCRETE U TYPE DITCH					
	Temporary work (600 x 600 - 800)	Set	1		312	
	Excavation	m <sup>3</sup>	1.7	110	187	
	Backfilling	"	1.03	110	113	
	Removal of extra soil	"	0.73	110	80	
	Sand leveling	"	0.12	3,500	420	
	Brick soling	"	0.1	6,000	600	
	Reinforced concrete	"	0.34	11,100	3,774	
	Form	m <sup>2</sup>	3.5	1,700	5,950	
	Deformed reinforcement (D10)	Kg	18.0	68	1,124	
	Labor of handling assembly	"	18.0	20	360	
	Sub-Total				12,920	
	Total		870	12,920	11,240,400	


NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
16-18	GASOLINE TRAP 3,900 x 1,400					
	Temporary work	Set	1		9,000	
	Excavation	m <sup>3</sup>	30	110	3,300	
	Backfilling	"	20	110	2,200	
	Extra soil	"	10	110	1,100	
	Brick foundation	m <sup>2</sup>	9	600	5,400	
	Leveling concrete	m <sup>3</sup>	0.5	11,100	5,550	
	Reinforced concrete	"	5.6	11,100	62,160	
	Form	m <sup>2</sup>	42	1,700	71,400	
	Reinforcement (D10)	t	0.03	68,000	2,040	
	" (D13)	"	0.61	66,000	40,260	
	Labor of handling assembly	"	0.64	20,000	12,800	
	Steel lid	Place	1		21,600	
	Manhole (φ600)	"	1		25,000	
	Ladder	"	1		6,000	
	Water proof mortar	m <sup>2</sup>	18	1,300	23,400	
	Sub-Total				291,210	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
16-19	WASTE OIL TRAP 3.900 x 1,400					
	Temporary work	Set	1		7,000	
	Excavation	m <sup>3</sup>	30	110	3,300	
	Backfilling	"	20	110	2,200	
	Extra soil	"	10	110	1,100	
	Brick foundation	m <sup>2</sup>	9	600	5,400	
	Leveling concrete	m <sup>3</sup>	0.5	11,100	5,550	
	Reinforced concrete	"	5.1	11,100	56,610	
	Form	m <sup>2</sup>	37	1,700	62,900	
	Reinforcement (D10)	t	0.03	68,000	2,040	
	" (D13)	"	0.56	66,000	36,960	
	Labor of handling assembly	"	0.59	20,000	11,800	
	Steel lid (640 x 3,500)	Place	1		27,000	
	Ladder	"	1		6,000	
	Water proof mortar	m <sup>2</sup>	15	1,300	19,500	
	Sub-Total				247,360	
	Total	Place	2	247,360	494,720	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
16-20	WATER SUPPLY TOWER					
	Temporary work	Set	1		643,522	
	Excavation	m <sup>3</sup>	288	110	31,680	
	Backfilling	"	28.5	110	3,135	
	Removal of extra soil	"	259.5	110	28,545	
	Leveling concrete	"	15.0	11,000	165,000	
	Brick soling	"	138	600	82,800	
	Reinforced concrete	"	136.0	11,100	1,509,600	
	Form	m <sup>2</sup>	418.0	1,700	710,600	
	Deformed reinforcement (D10)	t	0.79	68,000	53,720	
	" (D13)	"	9.56	66,000	630,960	
	" (D16 - D25)	"	12.27	62,000	760,740	
	Labor of handling assembly	"	22,62	20,000	452,400	
	Steel pipe	t	19.5	85,000	1,657,500	
	H-section steel	"	22.9	84,500	1,935,050	
	Channel steel	"	5.2	84,500	439,400	
	Steel plate	"	5.2	85,500	444,600	



NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	D.R.	t	17.2	88,000	1,513,600	
	H.T.B.	"	0.9	250,000	225,000	
	Welding	m	1,983.6	530	1,051,308	
	Anchor bolt (36φ ℓ=1,200)	Pcs.	64	1,500	96,000	
	" (16φ ℓ=300)	"	2	700	1,400	
	Mortar (Under base)	m <sup>2</sup>	0.1	2,000	200	
	Shop processing	t	70	130,000	9,100,000	
	Erection	"	70	11,000	770,000	
	Transportation	Set	1		1,420,000	
	Brick laying (Ornamental)	m <sup>3</sup>	1.0	20,000	20,000	
	Waterproof mortar (Floor)	m <sup>2</sup>	94.1	1,200	112,920	
	Mortar finish (Floor)	"	14.4	1,000	14,400	
	Mortar foundation (Floor) W0.3 x L0.6 x H3	Place	1		6,500	
	Waterproof mortar (Roof)	m <sup>2</sup>	121.1	1,300	157,430	
	Trowelled mortar finish (Around frame)	m	23.8	250	5,950	
	Mortar filling (Around frame)	"	5.6	500	2,800	
	Waterproof mortar finish (Wall)	m <sup>2</sup>	169.3	1,600	270,880	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Stainless pipe (Ladder)  W = 400 l = 2,200	Place	1		15,000	
	Manhole (Waterproof type) Cast iron (φ600)	"	1		28,000	
	Steel flush door (0.8 x 2.0)	"	1		140,000	
	Caulking (Around frame)	m	5.6	600	3,360	
	Ferrous surface O.P. (Steel doors and windows, structural steel)	m <sup>2</sup>	2,120	800	1,696,000	
	Loading test	Set	1		200,000	
	Sub-Total				26,400,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
17	SPARE PARTS (PHASE - I WORK)					
17-1	(Item)					
17-1	General office building				201,080	
17-2	Class room & office building				70,200	
17-3	Dormitory				133,380	
17-4	Cafeteria				63,740	
17-5	Training room				102,500	
17-6	Heavy repair factory				422,850	
17-7	Parts storage				354,550	
17-8	Retreading & metal casting factory				283,950	
	Sub-Total				1,632,250	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
17-1	GENERAL OFFICE BUILDING					
	A.C.S. board	m <sup>2</sup>	34.6	1,800	62,280	
	Transparent glass (5 mm)	"	24.7	3,200	79,040	
	" (6 mm)	"	7.7	3,400	26,180	
	Sealant (3 kg)	Can	1.0		5,000	
	Mosaic tile	m <sup>2</sup>	2.0	3,000	6,000	
	100mm x 100mm Tile	"	3.2	3,400	10,880	
Hardware	Set	1		11,700		
	Sub-Total				201,080	
17-2	CLASS ROOM & OFFICE BUILDING					
	A.C.S. board	m <sup>2</sup>	0.7	1,800	1,260	
	Transparent glass (5 mm)	"	10.7	3,200	34,240	
	Sealant (3 kg)	Can	1		5,000	
	Mosaic tile	m <sup>2</sup>	2.0	3,000	6,000	
	100mm x 100mm Tile	"	2.0	3,400	6,800	
	Hardware	Set	1		16,900	
	Sub-Total				70,200	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
17-3	DORMITORY					
	A.C.S. board	m <sup>2</sup>	6.8	1,800	12,240	
	Transparent glass (5 mm)	"	19.6	3,200	62,720	
	Sealant (3 kg)	Can	1		5,000	
	Mosaic tile	m <sup>2</sup>	6.0	3,000	18,000	
	100mm x 100mm Tile	"	7.3	3,400	24,820	
	Hardware	Set	1		10,600	
	Sub-Total				133,380	
17-4	CAFETERIA					
	A.C.S. board	m <sup>2</sup>	1.0	1,800	1,800	
	Transparent glass (5 mm)	"	14.7	3,200	47,040	
	Sealant (3 kg)	Can	1.0		5,000	
	Mosaic tile	m <sup>2</sup>	1.0	3,000	3,000	
	100mm x 100mm Tile	"	1.0	3,400	3,400	
	Hardware	Set	1		3,500	
	Sub-Total				63,740	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
17-5	TRAINING ROOM					
	Transparent glass (5 mm)	m <sup>2</sup> .	30	3,200	96,000	
	Sealant (3 kg)	Can	1		5,000	
	Hardware	Set	1		1,500	
	Sub-Total				102,500	
17-6	HEAVY REPAIR FACTORY					
	Gypsum board	m <sup>2</sup>	38.5	400	15,400	
	A.C.S. board	"	81	1,800	145,800	
	Vinyl baseboard	m	18	250	4,500	
	Wired glass	m <sup>2</sup>	49.7	4,300	213,710	
	Sealant (3 kg)	Can	1		5,000	
	Hardware	Set	1		19,200	
	Mosaic tile	m <sup>2</sup>	2.9	3,000	8,700	
	100mm x 100mm Tile	"	3.1	3,400	10,540	
	Sub-Total				422,850	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
17-7	PARTS STORAGE					
	Gypsum board (9mm)	m <sup>2</sup>	201	400	80,400	
	A.C.S. board (9mm)	"	97	1,800	174,600	
	Vinyl baseboard	m	5	250	1,250	
	Transparent glass (5 mm)	m <sup>2</sup>	2	3,200	6,400	
	Wired glass (6.8 mm)	"	13	4,300	55,900	
	Sealant (3 kg)	Can	1		5,000	
	Hardware	Set	1		31,000	
	Sub-Total				354,550	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS	
17-8	RETREADING & METAL CASTING FACTORY						
	Gypsum board (9 mm)	m <sup>2</sup>	14.5	400	5,800		
	A.C.S. board "	"	110	1,800	198,000		
	Vinyl base board	m	10	250	2,500		
	Transparent glass	m <sup>2</sup>	1		3,200		
	Wired opaque glass	"	11.5	4,300	49,450		
	Sealant (3 kg)	can	1		5,000		
	Hardware	set	1		8,700		
	Mosaic tile	m <sup>2</sup>	1.5	3,000	4,500		
	100mm x 100mm Tile	"	2	3,400	6,800		
		Sub-Total:				283,950	



NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
18.	SENDING OF SUPERVISOR					
	Pile	Set	1		6,560,000	
	Steel	"	1		5,560,000	
	Roof and Wall	"	1		14,800,000	
	Metal	"	1		4,040,000	
	Others				14,500,000	
	Total				45,460,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	PHASE-II WORK (Item)					
1.	Inspection factory				38,856,930	
2.	Periodical repair factor				115,699,620	
	Sub-Total				154,556,550	
3.	Spare parts				279,530	
4.	Sending of supervisor				11,400,000	
	Total				166,236,080	





NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
1	INSPECTION FACTORY					
1-1	Temporary work	Set	1		1,922,300	
1-2	Earth work	"	1		1,220,850	
1-3	Concrete work	"	1		3,510,350	
1-4	Reinforcement work	"	1		1,532,600	
1-5	Steel work	"	1		15,198,050	
1-6	Brick Masonry	"	1		264,250	
1-7	Roof and metal work	"	1		8,625,080	
1-8	Plastering work	"	1		743,100	
1-9	Metal doors and windows	"	1		686,700	
1-10	Wood doors and windows	"	1		48,000	
1-11	Glass work	"	1		87,990	
1-12	Painting work	"	1		1,601,600	
1-13	Interior furnishing	"	1		3,114,660	
1-14	Micellaneous work	"	1		301,400	
	Total				38,856,930	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
1-1	TEMPORARY WORK					
	Leveling	Set	1		146,300	
	Scaffold (Outer)	"	1		639,600	
	" (Inner)	"	1		344,500	
	Scaffold board	"	1		70,000	
	Arrangement and cleaning	"	1		406,500	
	Curing	"	1		165,400	
	Loading test	"	1		150,000	
	Sub-Total				1,922,300	
1-2	EARTH WORK					
	Excavation	m <sup>3</sup>	500	110	55,000	
	Backfilling	"	236	110	25,960	
	Removal of extra soil	"	264	110	29,040	
	Brick foundation Brick T=76	m <sup>2</sup>	70	600	42,000	
	" Brick T=120.6 Sand T=150	"	708	1,300	920,400	
	" Brick T=76 Sand T=150	"	36	950	34,200	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Brick foundation (For machine Brick T=120)	m <sup>2</sup>	128	600	76,800	
	Sand foundation (For machine Sand T=150)	m <sup>2</sup>	107	350	37,450	
	Sub-Total				1,220,850	
1-3	CONCRETE WORK					
	Leveling concrete	m <sup>3</sup>	3	11,100	33,300	
	Reinforced concrete(150 kg/cm <sup>2</sup> )	"	42.2	11,100	468,470	
	Concrete(For slab on the earth)( " )	"	145.3	11,100	1,612,830	
	Concrete(For machine foundation)	"	50	11,100	555,000	
	Concrete(For 1st floor)	"	3	11,100	33,300	
	" (For machine foundation)	m <sup>2</sup>	175	1,700	297,500	
	Sub-Total	"	300	1,700	510,000	
					3,510,350	
1-4	REINFORCEMENT WORK					
	Reinforcement (SD30 D10)	t	10.5	68,000	714,000	
	" ( " D13)		0.5	66,000	33,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Reinforcement (SD30 D16)	t	0.5	62,000	31,000	
	" (" D19)		0.6	62,000	37,200	
	Labor of handling assembly		12.1	20,000	242,000	
	Reinforcement for machine foundation (SD30 D10)		1.2	68,000	81,600	
	Reinforcement (SD D13)		4.3	66,000	283,800	
	Labor of handling assembly		5.5	20,000	110,000	
	Sub-Total				1,532,600	
1-5	STEEL WORK					
	Steel (□)	t	9.4	145,000	1,363,000	
	" (H)	"	35.2	84,500	2,974,400	
	" (L)	"	4.7	65,500	307,850	
	" (C)	"	3	85,000	255,000	
	" (R)	"	3.3	85,500	282,150	
	" (DR)	"	0.5	88,000	44,000	
	" (H.T.B.)	"	1.1	250,000	275,000	
	Labor of handling assembly	"	56.1	130,000	7,293,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS	
1-6	Erection	t	54.2	11,000	596,200		
	Welding	m	1,085	530	575,050		
	Anchor bolt (M22 x 1,000)	Pcs	48	1,600	76,800		
	" (M20 x 900)	"	24	1,400	33,600		
	Transportation and package	Set	1		1,122,000		
	Sub-Total					15,198,050	
1-7	BRICK MASONRY						
	Brick laying (Wall) T=250	m <sup>3</sup>	14.2	17,500	248,500		
	" T=76 (Baseboard)	"	0.9	17,500	15,750		
	Sub-Total					264,250	
	ROOF AND METAL WORK						
	Folded steel plate (Roof)	m <sup>2</sup>	889	5,000	4,445,000		
Tight frame	m	237	950	225,150			
Reinforced angle steel (75x75x6x2,400)	Pcs	54	2,000	108,000			
Asbestos protected metal (Gutter)	m	52	6,000	312,000			
Sub-Total							

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Leader (P.V.C. φ100)	m	92	2,200	202,400	
	Steel siding (Exterior wall)	m <sup>2</sup>	296	2,900	858,400	
	Steel flashing	m	41	800	32,800	
	Steel flashing	"	41	900	36,900	
	Steel flashing (window)	"	51	1,000	51,000	
	Ridge covering	"	34	2,200	74,800	
	Calking	"	51	600	30,600	
	Light gauge steel bed (Wall)	m <sup>2</sup>	288	3,500	1,008,000	
	Light gauge steel bed (Ceiling)	"	52	1,100	57,200	
	Aluminium corner (Ceiling, Wall)	m	59	1,000	59,000	
	Corner angle steel L-50x50x4	"	73	750	54,750	
	Ladder		1		6,000	
	Manhole (φ600)	"	1		22,000	
	Non-slip nosing (Steel)	m	29	700	20,300	
	Corner angle (Pit) 	"	11	4,200	46,200	
	" " 	"	4	4,200	16,800	
	" " 	"	11	800	8,800	
	" " 	"	36	7,000	252,000	



NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Structural steel stair (1,300 x 5,000)	Place	1		150,000	
	Steel pipe handrail (H1,100)	m	5	7,000	35,000	
	Wire mesh (100 x 100 x 3.2φ)	m <sup>2</sup>	37	200	7,400	
	Protective gas pipe for leader (φ114.3 x 2,000)	Place	8	9,000	72,000	
	Transportation and package	Set	1		432,580	
	Sub-Total				8,625,080	
1-8	PLASTERING WORK					
	Mortar finish (Exterior baseboard) H-300	m	21	1,000	21,000	
	Trowelled concrete finish (Berm)	m <sup>2</sup>	951	450	427,950	
	Mortar finish (Floor)	"	37	1,000	37,000	
	Mortar finish (Pit)	"	39	1,000	39,000	
	Trowelled concrete finish (Pit)	"	3	450	1,350	
	Mortar finish (Pit rise)	"	103	1,500	154,500	
	" (Floor)	"	14	1,300	18,200	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Mortar finish (Window board)	m <sup>2</sup>	12	1,300	15,600	
	Mortar filling (Around frame)	m	57	500	28,500	
	Sub-Total				743,100	
1-9	METAL WINDOWS & DOORS					
	1/AW Aluminum window (2,000 x 1,200)	Place	2	33,800	67,600	
	7/" "	"	2	92,000	184,000	
	8/" "	"	1		92,600	
	1/AL Aluminum Louver (1,800 x 600)	"	1		56,100	
	Steel frame for door	"	2	23,200	46,400	
	Installation	Set	1		115,000	
	Package for export	"	1		125,000	
	Sub-Total				686,700	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
1-10	WOOD DOORS					
	4/WD Plywood flush door (Single swinging door) 600 x 2,000	Place	2	13,500	27,000	
	Hardware	"	2	10,500	21,000	
	Sub-Total				48,000	
1-11	GLASS WORK					
	Transparent glass T=5mm	m <sup>2</sup>	16.6	3,700	61,420	
	Opaque glass T=4mm	"	0.7	2,600	1,820	
	Wired opaque glass T=6.8mm	"	5	4,950	24,750	
	Sub-Total				87,990	
1-12	PAINTING WORK					
	O.P. (Ferrous surface)	m <sup>2</sup>	471	650	306,150	
	" (Steel)	"	1,590	650	1,033,500	
	" (Wood doors and windows)	"	7	850	5,950	
	E.P. (Board)		320	800	256,000	
	Sub-Total				1,601,600	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
1-13	INTERIOR FURNISHING					
	Vinyl (Baseboard)	m	43	420	18,060	
	A.C.S. board (Wall) 9mm	m <sup>2</sup>	369	2,400	885,600	
	Gypsum board (Ceiling)	"	51	1,000	51,000	
	Rock wood spraying (Folded steel plate)	"	1,080	2,000	2,160,000	
	Sub-Total				3,114,660	
1-14	MISCELLANEOUS WORK					
	Hook (Locker room)	m	23	1,000	23,000	
	Post guard (φ216.3 x 1,600)	Pcs	12	12,200	146,400	
	Sink with lid	Place	2	7,000	14,000	
	Drainage pit (1,460x1,960x2,500)	"	1		90,000	
	Manhole lid and ladder (φ600)	"	1		28,000	
	Sub-Total					301,400

NO	ITEM AND DESCRIPTION	UNTS	QUANTITIES	UNIT COST	TOTAL	REMARKS
2	PERIODICAL REPAIR FACTORY					
2- 1	Temporary work	Set	1		4,714,700	
2- 2	Earth work	"	1		4,078,540	
2- 3	Concrete work	"	1		8,503,770	
2- 4	Reinforcement work	"	1		3,869,000	
2- 5	Steel work	"	1		48,065,160	
2- 6	Brick masonry	"	1		626,500	
2- 7	Terrazzo work	"	1		505,000	
2- 8	Tile work	"	1		445,400	
2- 9	Roof and metal work	"	1		23,126,430	
2-10	Plastering work	"	1		1,577,050	
2-11	Metal doors and windows	"	1		5,349,900	
2-12	Wood doors and windows	"	1		157,400	
2-13	Glass work	"	1		811,030	
2-14	Painting	"	1		4,546,900	
2-15	Interior furnish	"	1		8,737,840	
2-16	Miscellaneous work	"	1		585,000	
	Total				115,699,620	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
2-1	TEMPORARY WORK					
	Leveling	Set	1		460,700	
	Scaffold (Outer)	"	1		1,207,800	
	" (Inner)	"	1		1,062,500	
	Scaffolded	"	1		70,000	
	Arrangement and cleaning	"	1		1,253,700	
	Curing	"	1		510,000	
	Loading test	"	1		150,000	
	Sub-Total				4,714,700	
2-2	EARTH WORK					
	Excavation	m <sup>3</sup>	1,042	110	114,620	
	Backfilling	"	444	110	48,840	
	Removal of extra soil	"	598	110	65,780	
	Brick foundation T=76.2	m <sup>2</sup>	182	600	109,200	
	"	"	2,877	1,300	3,740,100	
	Sub-Total				4,078,540	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
2-3	CONCRETE WORK					
	Leveling concrete	m <sup>3</sup>	9.1	11,100	101,010	
	Reinforced concrete 150 kg/cm	"	111.5	11,100	1,237,650	
	Concrete(For slab on the earth)	"	575	11,100	6,382,500	
	Concrete(For 1st floor)	"	7	11,100	78,810	
	Foam	m <sup>2</sup>	414	1,700	703,800	
	Sub-Total				8,503,770	
2-4	REINFORCEMENT WORK					
	Reinforcement (SD30 D10)	t	39.9	68,000	2,713,200	
	" ( " D13)	"	1.3	66,000	85,800	
	" ( " D16)	"	0.9	62,000	55,800	
	" ( " D19)	"	2.1	62,000	130,200	
	Labor of handling assembly	"	44.2	20,000	884,000	
	Sub-Total				3,869,000	
2-5	STEEL WORK					
	Steel (□)	t	30.4	145,000	4,408,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Steel (H)	t	112.8	84,500	9,531,600	
	" (L)	"	15.4	65,500	1,008,700	
	" (C)	"	7.4	85,000	629,000	
	" <u>R</u>	"	13.3	85,500	1,137,150	
	" <u>DR</u>	"	1.2	88,000	105,600	
	H.T.B.	"	3.7	250,000	925,000	
	Labor of handling assembly	"	180.5	130,000	23,465,000	
	Erection	"	173.8	11,000	1,911,800	
	Welding	m	2,087	530	1,106,110	
	Anchor bolt (M22 x 1,000)	Pcs	128	1,600	204,800	
	" (M20 x 900)	"	16	1,400	22,400	
	Transportation and package	Set	1		3,610,000	
	Sub-Total				48,065,160	
2-6	BRICK MASONRY					
	Brick laying (Wall) T=250	m <sup>3</sup>	35	17,500	612,500	
	" T=76 (Baseboard)	"	0.8	17,500	14,000	
	Sub-Total				626,500	



NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
2-7	TERRAZZO WORK Terrazzo block (Scrren board) " 500x1,300 SUB TOTAL	m <sup>2</sup>	16.7 5	25,000 17,500	417,500 87,500 505,000	
2-8	TILE WORK Mosaic tile 100mm x 100mm Tile (Wall) " (Window board) Sub-Total	m <sup>2</sup> " "	51 33 1	5,000 5,600	255,000 184,800 5,600 445,400	
2-9	ROOF AND METAL WORK Folded steel plate (Roof) " " (Eaves) Tight frame Reinforced angle L 75x75x6x2,400 Asbestos protected metal (Guffer) Leader	m <sup>2</sup> " m Pcs m "	2,638 16 594 78 153 181	5,000 5,000 950 3,000 6,000 2,200	13,190,000 80,000 564,300 234,000 918,000 398,200	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Steel flashing (Eaves)	m	5.7	2,500	14,250	
	Ridge covering	"	23	2,200	50,600	
	Steel siding (Exterior wall)	m <sup>2</sup>	618	2,900	1,792,200	
	Steel flashing (Monitor roof)	m	11	2,000	22,000	
	" " " Girth 415	"	12	1,600	19,200	
	" " " 345	"	14	3,000	42,000	
	" " " 720	"	159	800	127,200	
	Steel flashing	"	51	900	45,900	
	Steel flashing (Window)	"	288	1,000	288,000	
	" " (Entrance)	"	11	1,500	16,500	
	Caulking	"	393	600	235,800	
	Light gauge steel bed (Wall)	m <sup>2</sup>	482	3,500	1,687,000	
	" " " (Ceiling)	"	170	1,100	187,000	
	Aluminum corner bead (Ceiling, Wall)	"	106	1,000	106,000	
	Corner angle	"	92	750	69,000	
	Structural steel stair (1,500 x 5,000)	Place	1		170,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Catwalk (Floor)	m <sup>2</sup>	52	12,000	624,000	
	" (Handrail)	m <sup>2</sup>	120	6,500	780,000	
	Wire mesh	m	113	200	22,600	
	Protective gas pipe for leader (φ114.3 x 2,000)	Place	16	9,000	144,000	
	Grille (1,800 x 600)		2	16,200	32,400	
	Ladder (H7,000)	"	1		28,000	
	Transportation and package	Set	1		1,238,280	
	Sub-Total				23,126,430	
2-10	PLASTERING WORK					
	Mortar finish (Exterior baseboard) H-300	m	51	1,000	51,000	
	Trowelled concrete finish (Floor)	m <sup>2</sup>	2,119	450	953,550	
	Mortar finish (Floor)	"	178	1,000	178,000	
	" (Wall)	"	199	1,500	298,500	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Mortar filling (Around frame)	m	192	500	96,000	
	Sub-Total				1,577,050	
2-11	METAL DOORS AND WINDOWS					
	1/AW Aluminium window (2,000 x 1,200)	Place	2	33,800	67,600	
	2/" "	"	1		194,000	
	3/" "	"	1		91,600	
	4/" "	"	2	191,800	383,600	
	5/" "	"	1		135,100	
	6/" "	"	2	1085,800	2,171,600	
	1/AL Aluminum louver (1,800 x 600)	"	2	56,100	112,200	
	1/SD Steel flush door (1,600 x 2,000)	"	1		137,700	
	2/" "	"	1		80,900	
	Steel frame for wood door	"	3	23,200	69,600	
	Installation	Set	1		939,000	
	Package for export	"	1		967,000	
	Sub-Total				5,349,900	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
2-12	WOOD DOORS					
1/	MDPlywood flush door (Single swinging) 600 x 1,950	Place	3	9,000	27,000	
2/	" " " " 600 x 1,850	"	3	8,300	24,900	
3/	" " " " 600 x 1,950	"	1		9,000	
4/	" " " " 600 x 2,000 Glazed	"	3	13,500	40,500	
	Hardware (WD1 - WD3)	"	7	3,500	24,500	
	" (WD4)	"	3	10,500	31,500	
	Sub-Total				157,400	
2-13	GLASS WORK					
	Transparent glass T=5	m <sup>2</sup>	36	3,700	133,200	
	Opaque glass	"	1.4	2,600	3,640	
	Wired opaque glass T=6.8	"	136.2	4,950	674,190	
	Sub-Total				811,030	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
2-14	PAINTING WORK					
	O.P. (Steel doors and windows)	m <sup>2</sup>	13	800	10,400	
	" (Ferrous surface)	"	870	650	565,500	
	" (Steel)	"	5,100	650	3,315,000	
	" (Wood doors and windows)	"	32	850	27,200	
	E.P. (Board)	"	786	800	628,800	
	Sub-Total				4,546,900	
2-15	INTERIOR FURNISHING					
	Vinyl (Base board)	m	62	420	26,040	
	A.C.S. board (Wall) T=9	m <sup>2</sup>	691	2,400	1,658,400	
	Gypsum board (Ceiling) T=9.	"	119	1,000	119,000	
	Rock wool spraying (Folded steel plate)	"	3,406	2,000	6,812,000	
	A.C.S. board (Ceiling)	m <sup>2</sup>	51	2,400	122,400	
	Sub-Total				8,737,840	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
2-16	MISCELLANEOUS WORK					
	Curtain rail (Shower room) (Vinyl curtain W1,000 x H2,000)	Place	3	7,000	21,000	
	Screen board (Locker room) (W4,500 x H2,000)	"	2	90,000	180,000	
	Screen board (Locker room) (W2,500 x H3,000)	"	1		50,000	
	Hook (Screen board)	m	23	1,000	23,000	
	Hook (Wall)	"	39	1,000	39,000	
	Post guard (φ216.3 x 1,600)	Place	20	12,200	244,000	
	Sink with lid	"	4	7,000	28,000	
	Sub-Total				585,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
3	SPARE PARTS (PHASE - II WORK) (Item)					
3-1	Inspection factory				81,330	
3-2	Periodical repair factory				198,200	
	Exterior work					
	Sub-Total				279,530	



NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
3-1	INSPECTION FACTORY Gypsum board T=9 A.C.S. board " Vinyl baseboard Transparent glass T=5 Wired opaque glass T=6.8 Sealant(3kg) Sub-Total	m <sup>2</sup> " m m <sup>2</sup> " Can	5 37 4 1.7 0.3 1	400 1,800 250 3,200 4,300	2,000 66,600 1,000 5,440 1,290 5,000 81,330	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
3-2	PERIODICAL REPAIR FACTORY					
	Gypsum board T=9	m <sup>2</sup>	12	400	4,800	119 x 0.1
	A.C.S. board "	"	74	1,800	133,200	742 x 0.1
	Vinyl baseboard	m	6	250	1,500	62 x 0.1
	Transparent glass T=5	m <sup>2</sup>	3.6	3,200	11,520	36 x 0.1
	Wired opaque glass T=6.8	"	5.8	4,300	24,940	136 x 0.05
	Sealant (3kg)	Can	1		5,000	
	Hardware	Set	1		4,300	
	Mosaic tile	m <sup>2</sup>	2.5	3,000	7,500	51 x 0.05
	100mm x 100mm Tile	"	1.6	3,400	5,440	33 x 0.05
	Sub-Total				198,200	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
4.	SEND OF SUPERVISER					
	Pile	Set	1		1,520,000	
	Steel	"	1		1,520,000	
	Roof and wall	"	1		3,040,000	
	Steel doors and windows	"	1		1,520,000	
	Others	"	1		3,800,000	
	Sub-Total				11,400,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	PHASE - III WORK (Item)					
1.	Paint and body factory				137,335,040	
2.	Spare parts				300,760	
3.	Sending of supervisor				6,660,000	
	Total:				144,295,800	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
1.	PAINT AND BODY FACTORY					
1-1	Temporary work	Set	1		3,723,800	
1-2	Earth work	"	1		2,754,340	
1-3	Concrete work	"	1		7,461,700	
1-4	Reinforcement work	"	1		3,069,800	
1-5	Steel work	"	1		50,028,150	
1-6	Brick masonry	"	1		1,260,000	
1-7	Terrazzo work	"	1		898,500	
1-8	Tile work	"	1		543,800	
1-9	Roof and metal work	"	1		21,091,260	
1-10	Plastering work	"	1		1,817,050	
1-11	Metal doors and windows	"	1		29,242,900	
1-12	Wood doors and windows	"	1		233,300	
1-13	Glass work	"	1		1,834,100	
1-14	Painting work	"	1		5,000,700	
1-15	Interior furnishing	"	1		7,907,240	
1-16	Miscellaneous work	"	1		468,400	
	Total:				137,335,040	







NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
1-1	TEMPORARY WORK					
	Marking	Set	1		346,800	
	Scaffold (Outer)	"	1		975,800	
	" (Inner)	"	1		820,000	
	Scaffold board	"	1		70,000	
	Arrangement and cleaning	"	1		967,600	
	Curing	"	1		393,600	
	Loading test	"	1		150,000	
	Sub-Total:				3,723,800	
1-2	EARTH WORK					
	Excavation	. m <sup>3</sup>	847	110	93,170	
	Backfilling	"	364	110	40,040	
	Removal of extra soil	"	483	110	53,130	
	Brick soiling	m <sup>2</sup>	201	600	120,600	
	"	"	1,750	1,300	2,276,000	
	"	"	72	950	68,400	
	Brick soiling (For machine foundation)		80	1,300	104,000	


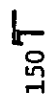
NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Sub-Total:				2,754,340	
1-3	CONCRETE WORK					
	Leveling concrete	m <sup>3</sup>	10	11,100	111,000	
	Reinforced concrete (150kg/cm <sup>2</sup> )	"	148	11,100	1,642,800	
	Concrete(For slab on the earth)	"	359	11,100	3,984,900	
	Concrete(For machine foundation)	"	38	11,100	421,800	
	Concrete(For 1st floor)	"	14	11,100	155,400	
	Form	m <sup>2</sup>	624	1,700	1,060,800	
	Form(For machine foundation)	"	50	1,700	85,000	
	Sub-Total:				7,461,700	
1-4	REINFORCEMENT WORK					
	Reinforcement SD30 (D10)	t	28.7	68,000	1,951,600	
	" (D13)	"	1		66,000	
	" (D16, D19)	"	4.3	62,000	266,600	
	Labor of handling assembly	"	34	20,000	680,000	
	Reinforcement for machine foundation (SD30)	"	1.2	68,000	81,600	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Labor of handling assembly	t	1.2	20,000	24,000	
	Sub-Total:				3,069,800	
1-5	STEEL WORK					
	Steel □	t	20.4	145,000	2,958,000	
	" H	"	127.8	84,500	10,799,100	
	" L	"	15	65,500	982,500	
	" C	"	12.2	85,000	1,037,000	
	" R	"	11.7	85,500	1,000,350	
	" DR	"	1.4	88,000	123,200	
	" H.T.B.	"	2.6	250,000	650,000	
	Labor of handling assembly	"	188.5	130,000	24,505,000	
	Erection	"	184	11,000	2,024,000	
	Welding	m	3,980	530	2,109,400	
	Anchor bolt (M20 x 8900)	Pcs.	74	1,400	103,600	
	" (M22 x 81,000)	"	60	1,600	96,000	
	Transportation and package	Set	1		3,640,000	
	Sub-Total:				50,028,150	



NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
1-6	BRICK MASONRY Brick laying (Wall T = 250) " .76x300 (Base) Sub-Total:	m <sup>3</sup> "	70 2	17,500 17,500	1,225,000 35,000 1,260,000	
1-7	TERRAZZO WORK Terrazzo block (Separate board) " (Separate board 500 x 1,200) Sub-Total:	m <sup>2</sup>	32.7 5	25,000 16,200	817,500 81,000 898,500	
1-8	TILE WORK Mosaic tile 100mm x 100mm Tile (Wall) Sub-Total:	m <sup>2</sup> "	55 48	5,000 5,600	275,000 268,800 543,800	
1-9	ROOF AND METAL WORK Folded steel plate (Roof) 1.0	m <sup>2</sup>	1,967	5,000	9,835,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Folded steel plate (Eaves) 1.0	m <sup>2</sup>	39	5,000	195,000	
	Tight frame	m	544	950	516,800	
	Reinforcing angle steel (L75x75x6x2,400)	Pcs.	72	3,000	216,000	
	Asbestos protected metal (Gutter)	m	109	6,000	654,000	
	Leader (PVC. φ100)	"	77	2,200	169,400	
	Steel flashing (Eaves)  Girth 510	m	13	2,500	32,500	
	Ridge covering	"	13	2,200	28,600	
	Steel siding (Exterior wall) 0.6	m <sup>2</sup>	663	2,900	1,922,700	
	Steel flashing (Monitor roof)  Girth 415	m	18.2	2,000	36,400	
	"  " 345	"	9.6	1,600	15,360	
	Steel corner flashing 0.8  "	"	26.4	1,300	34,320	
	Steel flashing 0.8  " 170	"	80.8	900	72,720	
	Steel flashing 0.8  " 150	"	164.4	800	131,520	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Steel flashing (Monitor roof)  Girth 400	m	98.6	2,000	197,200	
	" " 150 	"	78.4	800	62,720	
	Steel flashing (Window)	"	540	1,000	540,000	
	" (Entrance)	"	143	1,500	214,500	
	Eaves closer	"	105	900	94,500	
	Caulking	"	1,142	600	685,200	
	Light gauge steel (Wall base)	m <sup>2</sup>	565	3,500	1,977,500	
	Light gauge steel (Ceiling base)	"	202	1,100	222,200	
	Aluminum corner (Ceiling, wall)	m	828	1,000	828,000	
	Corner angle	"	36	750	27,000	
	Catwalk (Floor)	m <sup>2</sup>	44	12,000	528,000	
	Catwalk (Handrail)	m	71	6,500	461,500	
	Ladder (H7,000)	Place	2	28,000	56,000	
	Structural steel stair (1,500x5,500)	"	1		185,000	
	Steel pipe handrail	m	5.5	7,000	38,500	
	Wire mesh	m <sup>2</sup>	140	200	28,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Protective gas pipe for leader φ114.3 x 2 m		10	9,000	90,000	
	Catch basin (300 x 300)	"	10	2,000	20,000	
	Transportation and package	Set	1		975,120	
	Sub-Total:				21,091,260	
1-10	PLASTERING WORK					
	Mortar (Exterior baseboard) H300	m	81	1,000	81,000	
	Trowelled concrete finish (Floor of entrance)	m <sup>2</sup>	450	450	202,500	
	Mortar finish (Berm)	"	72	1,000	72,000	
	Trowelled concrete finish (Floor)	m <sup>2</sup>	1,445	450	650,250	
	Mortar finish (Floor)	"	140	1,000	140,000	
	Mortar finish (Wall)	"	428	1,500	642,000	
	Mortar finish (Machine foundation)	"	11	1,300	14,300	
	Mortar filling (Around frame)	m	30	500	15,000	
	Sub-Total:				1,817,050	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
1-11	METAL DOORS AND WINDOWS					
	1/AV Aluminum sash window (38,220W x 1,200H) Place		2	1,502,700	3,005,400	
2/	" (38,220W x 1,200H)	"	2	1,062,700	2,125,400	
3/	" (28,220W x 1,200H)	"	2	1,111,400	2,222,800	
4/	" (12,220W x 1,200H)	"	3	487,500	1,462,500	
5/	" (12,220W x 1,200H)	"	1		267,500	
6/	" ( 6,150W x 1,200H)	"	1		112,800	
7/	" ( 4,050W x 1,200H)	"	2		144,400	
8/	" ( 1,800W x 1,200H)	"	1		32,400	
	Steel hanger door (12,650W x 4,000H)	"	6	1,831,000	10,986,000	
	" ( 3,150W x 3,000H)	"	2	447,100	894,200	
	Angle steel door (Double swinging) ( 1,800W x 2,950H)	"	1		245,100	
	" ( 1,800W x 2,000H)	"	2	115,000	230,000	
	Glazed flush door (Single swinging) ( 800W x 2,000H)	"	1		78,500	
	Steel frame for wood door (1,600W x 2000H)	"	3	28,300	84,900	
	Installation	Set	1		4,063,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Package for export	Set	1		3,288,000	
	Sub-Total:				29,242,900	
1-12	WOOD DOORS					
	1/WD Plywood flush door (Double swinging) (Glazed, with louver 1,600 x 2,000 )	Place	3	33,000	99,000	
	2/ Plywood flush door (Single swinging) 600 x 1,900	"	3	8,600	25,800	
	3/ "	"	4	8,600	34,400	
	4/ "	"	1		8,600	
	Hardware (WD1)	"	3	12,500	37,500	
	" (WD2 - WD4)	"	8	3,500	28,000	
	Sub-Total:				233,300	
1-13	GLASS WORK					
	Transparent glass (T = 5)	m <sup>2</sup>	20	3,700	74,000	
	Opaque glass (T = 4)	"	3	2,600	77,800	
	" (T = 6.8)	"	354	4,950	1,752,300	
	Sub-Total:				1,834,100	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
1-14	PAINTING WORK					
	O. P. (Steel doors and windows)	m <sup>2</sup>	908	800	726,400	
	O. P. (Ferrous surface)	"	687	650	446,550	
	O. P. (Steel)	"	4,380	650	2,847,000	
	O. P. (Wood doors and windows)	"	47	850	39,950	
	E. P. (Board, mortar)	"	1,176	800	940,800	
	Sub-Total:				5,000,700	
1-15	INTERIOR FURNISHING					
	Vinyl (Baseboard)	m	82	420	34,440	
	A.C.S. board (Wall) T=9	m <sup>2</sup>	948	2,400	2,275,200	
	A.C.S. board (Ceiling) T=9	"	54	2,400	129,600	
	Gypsum board (Ceiling) T=9	"	148	1,000	148,000	
	Rock wool spraying (Folded steel plate) (T=30)	"	2,660	2,000	5,320,000	
	Sub-Total:					7,907,240

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
1-16	<p>MISCELLANEOUS WORK</p> <p>Vinyl curtain and rail (Shower room) (1,000W x 1,900H) Place</p> <p>Screen board (Locker room) (5,000W x 2,000H) "</p> <p>Hook (Locker room) 3 x 60 m</p> <p>Sink with lid Place</p> <p>Post guard (ø216.3 x 1,600) Pcs</p> <p>Fan table Place</p> <p style="text-align: right;">Sub-Total:</p>		<p>3</p> <p>1</p> <p>48</p> <p>4</p> <p>12</p> <p>5</p>	<p>7,000</p> <p>100,000</p> <p>1,000</p> <p>7,000</p> <p>12,200</p> <p>25,000</p>	<p>21,000</p> <p>146,400</p> <p>48,000</p> <p>28,000</p> <p>146,400</p> <p>125,000</p> <p>468,400</p>	



NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
2.	SPARE PARTS (Item.) Paint and Body factory  Sub-Total:				  300,760  300,760	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
2-1	PAINT AND BODY FACTORY Gypsum board A.C.S. board Vinyl baseboard Transparent glass (T = 5) Wired opaque glass (T = 6.8) Sealant (3 kgs) Hardware Mosaic tile 100mm x 100mm Tile Sub-Total:	m <sup>2</sup> " m m " can Set m <sup>2</sup> "	15 100 8 2 18 1 1 2.8 2.4	400 1,800 250 3,200 4,300   3,000 3,400	6,000 180,000 2,000 6,400 77,400 5,000 7,400 8,400 8,160 300,760	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
3.	SEND OF SUPERVISOR					
	Steel	Set	1		1,320,000	
	Roof and wall	"	1		1,520,000	
	Metal doors and windows	"	1		1,320,000	
	Others	"	1		2,500,000	
	Total:				6,660,000	



NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	AUTOMOBILE REPAIR & MAINTENANCE WORKSHOP (ELECTRICAL INSTALLATION WORK)					
	Phase - 1 Work	set	1		193,445,000	
	Phase - 2 Work	"	1		13,739,000	
	Phase - 3 Work	"	1		8,482,000	
	Total:				215,666,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	PHASE - 1 WORK (Item)				193,445,000	
1	Sub-station equipment	Set	1		73,941,000	
2	Exterior work	"	1		30,580,000	
3	Telephone exchange equipment	"	1		13,062,000	
4	General office building	"	1		7,308,000	
5	Class-room & office building	"	1		4,943,000	
6	Dormitory	"	1		5,793,000	
7	Cafeteria	"	1		4,481,000	
8	Training room	"	1		5,646,000	
9	Check gate	"	1		1,432,000	
10	Air-compressor house	"	1		979,000	
11	Paint, grease & oil storage	"	1		268,000	
12	Sub-station	"	1		1,147,000	
13	Heavy repair factory	"	1		15,303,000	
14	Parts storage	"	1		4,701,000	
15	Retreading & metal casting factory	"	1		6,161,500	
	Sub-Total:				175,745,500	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
16	Spare apparatus & materials	Set	1		3,416,000	
17	Send of supervisor	"	1		5,100,000	
18	Expense of site	"	1		9,183,500	
	<b>Total:</b>				<b>193,445,000</b>	

NO	ITEM AND DESCRIPTION	UNTS	QUANTITIES	UNIT COST	TOTAL	REMARKS
1	SUB-STATION EQUIPMENT					
	Incoming panel	Set	1		14,300,000	
	MOF panel	"	1		10,800,000	
	Bus-duct, Bus board (Primary)	"	1		2,100,000	
	Bus-duct (Secondary)	"	1		1,800,000	
	Transformer		1		14,100,000	
	Low-voltage distribution board (with S.C panel)	Set	1		17,800,000	
	Storage batteries and changer panel	"	1		5,100,000	
	Alarm panel	"	1		100,000	
	Accessories of equipment	"	1		2,300,000	
	Sub-Total:				68,400,000	
	Transportation in site	Set	1		150,000	
	Miscellaneous cost of site	"	1		340,000	
	Labor cost	"	1		251,000	
	Packing cost for exportation	"	1		4,800,000	
	Total:				73,941,000	



NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
2	EXTERIOR WORK					
2-1	Main-line for power	Set	1		23,939,000	
2-2	Main-line for communication	"	1		2,197,000	
2-3	Power control system on exterior	"	1		803,000	
2-4	Exterior lighting fixture system	"	1		3,641,000	
	Total:				30,580,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
2-1	MAIN-LINE FOR POWER					
	600V CV cable 5.5° - 4C	m	11	218	2,398	
	600V SC-CV cable 14° - 4C	"	114	981	111,834	
	" 22° - 4C	"	386	1,400	540,400	
	" 60° - 4C	"	321	2,910	934,110	
	" 100° - 4C	"	2,813	4,470	12,574,110	
	" 150° - 4C	"	486	6,260	3,042,360	
	600V SC-CVV cable 5.5° - 2C	m	688	471	324,048	
	600V IV wire 5.5°	m	7	34	238	
	" 14°	"	50	85	4,250	
	" 22°	m	74	130	9,620	
	Conduit tube (31)	pcs	4	619	2,476	
	" (VE16)	"	2	196	392	
	" (VE22)	"	30	230	6,900	
	Accessories of tube	Set	1		2,442	
	Cable marker	pcs	51	1,400	71,400	
	3rd class earthing	Spots	13	2,300	29,900	
	Handhole 2000x2000x1500	Set	1		350,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Miscellaneous materials	Set	1		360,137	
	Sub-Total:				18,367,015	
	Transportation in site	Set	1		275,505	
	Miscellaneous cost of site	"	1		466,063	
	Labor cost	"	1		2,445,000	
	" (earth worker)	"	1		549,000	
	Packing cost for exportation	"	1		1,836,417	
	Total:				23,939,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
2-2	MAIN-LINE FOR COMMUNICATION					
	600V SC-CVV cable 3.5° - 2C	m	1,260	405	510,300	
	SC-CCP Cable 0.9 - 10P	"	511	585	298,935	
	" 0.9 - 30P	"	770	1,050	808,500	
	Miscellaneous materials	Set	1		32,354	
	Sub-Total:				1,650,089	
	Transportation in site	Set	1		24,751	
	Miscellaneous cost of site	"	1		41,871	
	Labor cost	"	1		315,000	
	Packing cost for exportation	"	1		165,289	
	Total:				2,197,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
2-3	POWER CONTROL SYSTEM ON EXTERIOR					
	600V IV wire 8°	m	19	48	912	
	600V CV cable 3.5° - 3C	"	31	127	3,937	
	600V CVV cable 2° - 2C	"	31	60	1,860	
	" 2° - 3C	"	21	80	1,680	
	" 2° - 4C	"	13	109	1,417	
	" 2° - 5C	"	14	122	1,708	
	Conduit tube (22)	pcs	30	701	21,030	
	" (31)	"	2	619	1,238	
	Accessories of tube	Set	1		5,567	
	Support materials of tube	"	1		4,454	
	Power control board 16P-1	Set	1		567,000	
	Floatless switch 3P with holder	unit	1		3,955	
	" 4P "	"	1		5,080	
	" 5P "	"	1		5,575	
	Connecting materials	Set	1		3,630	
	Earthing materials	"	1		9,436	
	Miscellaneous materials	"	1		12,581	
	Sub-Total:				651,060	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
	Transportation in site	Set	1		9,766	
	Miscellaneous cost of site	"	1		15,089	
	Labor cost	"	1		51,000	
	" (earth worker)	"	1		24,000	
	Painting cost	"	1		6,511	
	Packing cost for exportation	"	1		45,574	
	Total:				803,000	

NO	ITEM AND DESCRIPTION	UNITS	QUANTITIES	UNIT COST	TOTAL	REMARKS
2-4	EXTERIOR LIGHTING FIXTURE SYSTEM					
	600V SC-CV cable 5.5° - 3C	m	1,170	480	561,600	
	Lighting fixture B 201	Sets	21	76,800	1,612,800	
	Foundation of lighting fixture	"	21	15,000	315,000	
	Cable marker	Pcs	46	1,400	64,400	
	Miscellaneous materials	Set	1		51,076	
	Sub-Total:				2,604,876	
	Transportation in site	Set	1		39,073	
	Miscellaneous cost of site	"	1		71,710	
	Labor cost	"	1		229,000	
	" (earth worker)	"	1		514,000	
	Packing cost for exportation	"	1		182,341	
	Total:				3,641,000	