

ABSTRACT OF COST - SH 12

NAME OF WORK :- DPR for Construction of Maintenance Shed at left side bank ZONE N-III, Nanded.

29.01.2007

ITEM	Description of Item	Quantity	Rate	Unit	Amount		Reference
					PWD	DSR-2006-07	
1.00	Excavation for foundation in earth, soils of all types, sand, Gravel and soft murum, including removing the excavated material to a distance of 50 m. beyond the building area stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering (including shoring and strutting) etc. complete. (Lift upto 1.50 Metre).	253.00	48.30	CUM	Rs	12,220.00	I.No-1 P.No-7
2.00	Providing and filling in the foundation with sand of approved quality including compaction complete.	88.00	164.65	CUM	Rs	14,489.00	I.No-18 P.No-10
3.00	Providing dry trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm. to 20 cm. thick including hand packing and compacting complete	114.00	236.10	CUM	Rs	26,915.00	I.No-17 P.No-10
4.00	Providing selected hard murum filling including laying in layers of 15 cm. to 20 cm. thick layers including watering and compacting etc. complete as directed by Engineer in charge	54.00	174.75	CUM	Rs	9,437.00	Item no-737 P.No-266
5.00	Providing and laying in situ cement concrete M-10/ 1:3:6 of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including dewatering, formwork, compacting, roughening them if special finish is to be provided, finishing if required and curing etc. complete. (4.42 Bag/ Cum.)	57.00	1,857.00	CUM	Rs	105,849.00	I.No-30 P.No-15
6.00	Filling in plinth and floors with contractor's soil, sand or murum in 15 cm. to 20 cm. layers including watering and compaction etc. complete.	13.00	181.05	CUM	Rs	2,354.00	I.No-16 P.No-10
7.00	Providing and laying in situ cement concrete Cu.M. M-20 of trap/ granite/ quartzite/ gneiss metal for reinforced cement concrete work in foundation like raft, grillages, strip foundation and footings of reinforced cement concrete columns and steel stanchion including bailing out water, form work, compaction and finishing, curing etc. complete. (Excluding steel reinforcement and structural steel) (7.60 Bag/ Cum.)	23.00	2,747.40	CUM	Rs	63,190.00	I.No-46 P.No-19

ITEM	Description of Item	Quantity	Rate	Unit	Amount	Reference
8.00	Providing and casting in situ cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for reinforced cement concrete columns as per detailed designs and drawing, or as directed including centering, formwork, compacting and finishing the form surfaces with cement mortar 1:3 of sufficient minimum thickness, to give a smooth and even surface or roughening the surface Tf special finish is to be provided and curing etc. complete. (Excluding reinforcement) (7.60 Bag/ Cum.)	8.00	3,550.65	CUM	Rs 28,405.00	I.No-49 P.No-20
9.00	Providing and casting in situ cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for reinforced cement concrete beams and lintels as per detailed designs and drawings, or as directed including, centering, form work, compaction and roughening the surface if special finishing to be provided and curing etc. complete. (Excluding reinforcement) (7.60 Bag/ Cum.)	66.00	3,632.55	CUM	Rs 239,748.00	I.No-52 P.No-21
10.00	Providing and casting in situ cement concrete Cu.M. M-20 of trap/ granite/ quartzite/ gneiss metal for reinforced cement concrete slabs and landings as per detailed designs and drawings, including, centering, form work, compacting and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement) (7.60 Bag/ Cum.)	2.00	3,216.75	CUM	Rs 6,434.00	I.No-54 P.No-22
11.00	Providing and laying HYSD bars with cement polymer composite coating (CPCC) anticorrosive epoxy treatment for reinforcement for structure including cutting,bending hooking by machine,trying in position including binding wire, spacers, chairs,cover blocks as per detailed drawing including all leads and lifts etc. complete.	9.51	40,143.60	MT	Rs 381,766.00	I.No-803 P.No-283
12.00	Providing uncoursed rubble masonry of trap/ granite/ quartzite/ gneiss stones in cement mortar 1:6 in foundation and plinth of inner walls / in plinth of external walls including bailing out water manually, striking joints on unexposed faces and watering complete	58.00	928.05	CUM	Rs 53,827.00	I.No-99 P.No-57
13.00	Providing coursed rubble masonry first sort of trap/ granite/ quartzite/ gneiss stones in cement mortar 1:6 in external wall of plinth including bailing out water manually, striking joints inside and watering.	7.00	1,237.80	CUM	Rs 8,665.00	I.No-103 P.No-57
14.00	Providing First class burnt Brick masonry with conventional / Indian Standard type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding complete.	81.00	1,558.20	CUM	Rs 126,214.00	I.No-85 P.No-51

ITEM	Description of Item	Quantity	Rate	Unit	Amount	Reference
15.00	Providing structural steel work in trusses, other similar trussed purlins and members-with all bracing, gusset plates etc. as per detailed designs and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position, making riveted/ bolted/ welded connection and painting complete.	19.23	39,655.35	MT	Rs 762,572.00	I.No-23 P.No-11
16.00	Anchoring roof trusses by 16 mm. diameter steel bars in position including all fixtures and fastening etc. complete.	40.00	67.20	Rg.M	Rs 2,688.00	I.No-24 P.No-11
17.00	Providing and fixing corrugated galvanised iron sheet of 0.63 mm. thickfess (24 B.W.G.) for roofing without wind tiles including fastening with galvanised iron -screw and bolts and lead and bitumen washers as per drawing complete.	475.00	358.05	SQM	Rs 170,074.00	I.No-283 P.No-116
18.00	Providing and fixing valley gutter of 22 B.W.G. (0.63 mm.) plain galvanised iron sheets 120cm. wide with country teak wood planking 20 mm. thick including two coats of coal-taring the upper surface of plank (excluding painting to under side of plank).	87.00	1141.35	Per Rg.M.	Rs 99,297.00	I.No-284 P.No-116
19.00	Providing and fixing steel window of various sizes as per detailed drawings fabricated from I.S. standard sections without hot dip zinc coating without/ with ventilator including fabrication, glazing with non-acetinic/ plain/ obscured glass panels of-approved type and quality, all fixtures and fastening without teak wood boxing, and architraves and finishing with one coat of primer complete with guard bars 12 mm. square bar 10 cm. centre to centre.	23.00	1,587.60	SQM	Rs 36,515.00	I.No-366 P.No-142
20.00	Providing and fixing rolling steel shutters fabricated from 18 gauge steel laths with side guides, bottom rail, brackets, door suspension shaft, including rolling springs, locking arrangements and housing box at the top including mechanical gear operation arrangement and one boat of red lead primer.	86.00	1,653.75	SQM	Rs 142,223.00	I.No-371 P.No-143
21.00	Providing and laying in required positions on wall or flooring of broken China mosaic (broken pieces of china) of approved colour and pattern on a bedding of 20 mm. thick 1:4 cement mortar with water proofing compound including neat cement float, giving proper slopes, compacting, curing and finishing complete	8.00	299.25	SQM	Rs 2,394.00	I.No-186 P.No-92

ITEM	Description of Item	Quantity	Rate	Unit	Amount	Reference
22.00	Providing and laying cement concrete flooring 50 mm. thick with 1:2:3 cement concrete laid to proper level and slope in alternate bays, including compaction, filling joints, marking lines to give appearance of tiles of 30 cm. X 30 cm. or other size laid diagonally/ square etc. finishing smooth (with extra cement) in any colour as directed and curing. complete.	2.00	148.05	SQM	Rs 296.00	I.No-169 P.No-87
23.00	Providing and laying polished Shahabad Stone Flooring 25 mm. to 30 mm thick and 45 cm wide in plain/ diamond pattern on a bed of 1:6 cement mortar including cement float, filling joints with cement slurry, cutting, polishing and cleaning complete.	299.00	318.15	SQM	Rs 95,127.00	I.No-159 P.No-85
24.00	Providing and laying Rough Shahabad Stone Flooring 50 mm. to 60 mm.-thick and of required width in plain/ diamond pattern on a bed of 1:6 cement mortar including cement float, striking joints, pointing in cement mortar 1:3 curing and cleaning etc. complete.	149.00	211.05	SQM	Rs 31,446.00	I.No-158 P.No-85
25.00	Providing internal cement plaster 20 mm. thick in two coats in cement mortar 1:4 without neeru finish to concrete, brick surface, in all positions including scaffolding and curing complete.	467.00	78.75	SQM	Rs 36,776.00	I.No-139 P.No-80
26.00	Providing flush grooved pointing with cement mortar 1:3 for stone masonry work including scaffolding and curing complete.	10.00	29.40	SQM	Rs 294.00	I.No-147 P.No-82
27.00	Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to the plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days complete	433.00	19.95	SQM	Rs 8,638.00	I.No-245 P.No-57
28.00	Providing and applying three coat of synthetic enamel paint of approved colour to new structural steel work and wood work in buildings including scaffolding if necessary, cleaning and preparing the surface (excluding primer coat) complete.	1,469.00	31.50	SQM	Rs 46,274.00	I.No-236 P.No-103
29.00	Providing and applying priming coat over new steel and other metal surfaces including preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign material and scoured with wire brushes, fine steel wool, scrappers, and sand paper, scaffolding etc. complete.	1,469.00	8.40	SQM	Rs 12,340.00	I.No-245 P.No-105
GRAND TOTAL					Rs 2,526,467.00	

DETAILS OF MEASUREMENT - SH 12

NAME OF WORK :- DPR for Construction of Maintenance Shed at left side bank ZONE N-III, Nanded.
29.01.2007

I. No.	Item in Brief	No.	Length Meter	Breadth Meter	Height Meter	Contents CUM	unit
	<u>Maintenance Shed =2 Nos.Internal</u> <u>size=16.40mx8.80m</u>						
1.00	Excavation for foundation in earth, soils of all types, sand, Gravel and soft murum, including removing the excavated materiakigto a distance of 50 m. beyond the building area stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering (including shoring and strutting) etc. complete. (Lift upto 1.50 Metre).						
	<u>Maintenance Shed =2 Nos.Internal</u> <u>size=16.40mx8.80m</u> <u>Internal size=16.50mx8.80m</u>						
	for F-1 footing ...columns =2*4nos	8.00	2.00	2.00	1.35	43.20	cum
	for F-2 footing ...columns =2*4nos	8.00	2.30	2.30	1.35	57.13	cum
	for open foundation (stone) C/C =2*16.75+2*9.15	2.00	51.80	0.90	1.35	125.87	cum
	Less for common F-1 footing .. =2*4nos	-8.00	2.00	2.00	0.90	-28.80	cum
	Less for common F-2 footing .. =2*4nos	-8.00	2.30	2.30	0.90	-38.09	cum
	1.20m wide all round paving plinth add provisional qutty	2.00	58.00	1.20	0.60	83.52	cum
						10.00	cum
						TOTAL	252.84 cum
						SAY	253.00 cum
2.00	Providing and filling in the foundation with sand of approved quality including compaction complete.						
	<u>Maintenance Shed =2 Nos.Internal</u> <u>size=16.40mx8.80m</u>						
	for F-1 footing ...columns =2*4nos	8.00	2.00	2.00	0.15	4.80	cum
	for F-2 footing ...columns =2*4nos	8.00	2.30	2.30	0.15	6.35	cum
	for open foundation (stone) C/C =2*16.75+2*9.15	2.00	51.80	0.90	0.15	13.99	cum
	Less for common F-1 footing .. =2*4nos	-8.00	2.00	2.00	0.15	-4.80	cum
	Less for common F-2 footing .. =2*4nos	-8.00	2.30	2.30	0.15	-6.35	cum
	1.20m wide all round paving plinth under floor	2.00	58.00	1.20	0.15	20.88	cum
	add provisional qutty	2.00	16.40	8.80	0.15	43.30	cum
						10.00	cum
						TOTAL	88.16 cum
						SAY	88.00 cum
3.00	Providing dry trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm. to 20 cm. thick including hand packing and compacting complete						
	<u>Maintenance Shed =2 Nos.Internal</u> <u>size=16.40mx8.80m</u>						
	for F-1 footing ...columns =2*4nos	8.00	2.00	2.00	0.20	6.40	cum
	for F-2 footing ...columns =2*4nos	8.00	2.30	2.30	0.20	8.46	cum
	for open foundation (stone) C/C =2*16.75+2*9.15	2.00	51.80	0.90	0.20	18.65	cum
	Less for common F-1 footing .. =2*4nos	-8.00	2.00	2.00	0.20	-6.40	cum

I. No.	Item in Brief	No.	Length	Breadth	Height	Contents	unit
	Less for common F-2 footing .. =2*4nos	-8.00	2.30	2.30	0.20	-8.46	cum
	1.20m wide all round paving plinth	2.00	58.00	1.20	0.20	27.84	cum
	under floor	2.00	16.40	8.80	0.20	57.73	cum
	add provisional qutty					10.00	cum
						TOTAL	114.22 cum
						SAY	114.00 cum
4.00	Providing selected hard murum filling including laying in layers of 15 cm. to 20 cm. thick layers including watering and compacting etc. complete as directed by Engineer in charge						
	<u>Maintenance Shed =2 Nos.Internal</u>						
	<u>size=16.40mx8.80m</u>						
	<u>For Muram grouting the stone soling</u>						
	for F-1 footing ...columns =2*4nos	8.00	2.00	2.00	0.10	3.20	cum
	for F-2 footing ...columns =2*4nos	8.00	2.30	2.30	0.10	4.23	cum
	for open foundation (stone) C/C						
	=2*16.75+2*9.15	2.00	51.80	0.90	0.10	9.32	cum
	Less for common F-1 footing .. =2*4nos	-8.00	2.00	2.00	0.10	-3.20	cum
	Less for common F-2 footing .. =2*4nos	-8.00	2.30	2.30	0.10	-4.23	cum
	1.20m wide all round paving plinth	2.00	58.00	1.20	0.10	13.92	cum
	under floor	2.00	16.40	8.80	0.10	28.86	cum
	add provisional qutty					2.00	cum
						TOTAL	54.11 cum
						SAY	54.00 cum
5.00	Providing and laying in situ cement concrete M-10/ 1:3:6 of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including dewatering, formwork, compacting, roughening them if special finish is to be provided, finishing if required and curing etc. complete. (4.42 Bag/ Cum.)						
	<u>Maintenance Shed =2 Nos.Internal</u>						
	<u>size=16.40mx8.80m</u>						
	for F-1 footing ...columns =2*4nos	8.00	2.00	2.00	0.10	3.20	cum
	for F-2 footing ...columns =2*4nos	8.00	2.30	2.30	0.10	4.23	cum
	for open foundation (stone) C/C						
	=2*16.75+2*9.15	2.00	51.80	0.90	0.10	9.32	cum
	Less for common F-1 footing .. =2*4nos	-8.00	2.00	2.00	0.10	-3.20	cum
	Less for common F-2 footing .. =2*4nos	-8.00	2.30	2.30	0.10	-4.23	cum
	1.20m wide all round paving plinth	2.00	58.00	1.20	0.10	13.92	cum
	under floor	2.00	16.40	8.80	0.10	28.86	cum
	add provisional qutty					5.00	cum
						TOTAL	57.11 cum
						SAY	57.00 cum
6.00	Filling in plinth and floors with contractor's soil, sand or murum in 15 cm. to 20 cm. layers including watering and compaction etc. complete.						
	back filling with non adhesive materials						
	Total Earth Work as per i/no-1	1.00	252.84	cum		252.84	cum
	Less for fillings ... as per i/no-2	-1.00	88.16	cum		-88.16	cum
	Less for fillings ... as per i/no-3	-1.00	114.22	cum		-114.22	cum
	Less for fillings ... as per i/no-5 except under						
	floor	-1.00	57.11	cum		-57.11	cum
	Less for RCC ... as per i/no-6	-1.00	23.05	cum		-23.05	cum
	add or under floor	2.00	16.50	8.80	0.10	29.04	cum

I. No.	Item in Brief	No.	Length	Breadth	Height	Contents	unit
	under floor	2.00	14.50	4.80	0.10	13.92	cum
					TOTAL	13.26	cum
					SAY	13.00	cum
7.00	Providing and laying in situ cement concrete Cu.M. M-20 of trap/ granite/ quartzite/ gneiss metal for reinforced cement concrete work in foundation like raft, grillages, strip foundation and footings of reinforced cement' concrete columns and steel stanchion including bailing out water, form work, compaction and finishing, curing etc. complete. (Excluding steel reinforcement and structural steel) (7.60 Bag/ Cum.)						
	<u>Maintenance Shed =2 Nos.Internal</u> <u>size=16.40mx8.80m</u>						
	for F-1 footing ...columns =2*4nos	8.00	1.80	1.80	0.35	9.07	cum
	for F-2 footing ...columns =2*4nos	8.00	2.00	2.00	0.35	11.20	cum
	footings F-1and F-2.. Column base below plinth beam	16.00	0.45	0.45	0.55	1.78	cum
	add provisional qutty					1.00	cum
					TOTAL	23.05	cum
					SAY	23.00	cum
8.00	Providing and casting in situ cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for reinforced cement concrete columns as per detailed designs and drawing, or as directed including centering, formwork, compacting and finishing the form surfaces with cement mortar 1:3 of sufficient minimum thickness, to give a smooth and even surface or roughening the surface Tf special finish is to be provided and curing etc. complete. (Excluding reinforcement) (7.60 Bag/ Cum.)						
	<u>Maintenance Shed =2 Nos.Internal</u> <u>size=16.40mx8.80m</u>						
	for columns 0.35x0.35=2*8nos	16.00	0.35	0.35	3.15	6.17	cum
	add provisional qutty					2.00	cum
					TOTAL	8.17	cum
					SAY	8.00	cum
9.00	Providing and casting in situ cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for reinforced cement concrete beams and lintels as per detailed designs and drawings, or as directed including, centering, form work, compaction and roughening the surface if special finishing to be provided and curing etc. complete. (Excluding reinforcement) (7.60 Bag / Cum.)						
	<u>Maintenance Shed =2 Nos.Internal</u> <u>size=16.40mx8.80m</u>						
	Plinth beam C/C =2*16.75+4*9.15	2.00	51.80	0.45	0.60	27.97	cum
	Mi tie member(2 in each *2)	4.00	9.15	0.45	0.45	7.41	cum
	Allround Roof beam C/C =2*16.75+2*9.16	2.00	51.80	0.35	0.60	21.76	cum
	Mi tie member(2 in each *2)	4.00	9.15	0.35	0.60	7.69	cum

I. No.	Item in Brief	No.	Length	Breadth	Height	Contents	unit
	add provisional qutty						1.00 cum
						TOTAL	65.83 cum
						SAY	66.00 cum
10.00	Providing and casting in situ cement concrete Cu.M. M-20 of trap/ granite/ quartzite/ gneiss metal for reinforced cement concrete slabs and landings as per detailed designs and drawings, including, centering, form work, compacting and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement) (7.60 Bag/ Cum.)						
	for counter slab						
	add provisional qutty						2.00 cum
						TOTAL	2.00 cum
						SAY	2.00 cum
11.00	Providing and laying HYSD bars with cement polymer composite coating (CPCC) anticorrosive epoxy treatment for reinforcement for structure including cutting,bending hooking by machine,trying in position including binding wire, spacers, chairs,cover blocks as per detailed drawing including all leads and lifts etc. complete.						
	l/no- 6 foundation and footings	23.05	@	80.00	Kg/m	1844.32	Kg
	l/no- 7 columns	8.17	@	110.00	Kg/m	899.14	Kg
	l/no- 8 beams and lintels	65.83	@	100.00	Kg/m	6582.55	Kg
	l/no- 9 slab	2.00	@	90.00	Kg/m	180.00	Kg
						TOTAL	9506.01 Kg
						SAY	9.51 M.T
12.00	Providing uncoursed rubble masonry of trap/ granite/ quartzite/ gneiss stones in cement mortar 1:6 in foundation and plinth of inner walls / in plinth of external walls including bailing out water manually, striking joints on unexposed faces and watering complete						
	<u>Maintenance Shed =2 Nos.Internal</u> <u>size=16.40mx8.80m</u>						
	foundation (stone) C/C =2*16.75+2*9.15	2.00	51.80	0.75	0.30	23.31	cum
		2.00	51.80	0.60	0.30	18.65	cum
	0.3m below plinth beam	2.00	51.80	0.45	0.30	13.99	cum
	Less for common portion of column =2*8nos	-16.00	0.45	0.45	0.55	-1.78	cum
	add provisional qutty						4.00 cum
						TOTAL	58.16 cum
						SAY	58.00 cum
13.00	Providing coursed rubble masonry first sort of trap/ granite/ quartzite/ gneiss stones in cement mortar 1:6 in external wall of plinth including bailing out water manually, striking joints inside and watering.						
	<u>Maintenance Shed =2 Nos.Internal</u> <u>size=16.40mx8.80m</u>						
	up to plinth (stone) C/C =2*16.75+2*9.15	2.00	51.80	0.35	0.15	5.44	cum
	add provisional qutty						2.00 cum

I. No.	Item in Brief	No.	Length	Breadth	Height	Contents	unit
						TOTAL	7.44 cum
						SAY	7.00 cum
14.00	Providing First class burnt Brick masonry with conventional / Indian Standard type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding complete.						
	<u>Maintenance Shed =2 Nos.Internal</u> <u>size=16.40mx8.80m</u>						
	Above plinth C/C =2*16.75+2*9.15	2.00	51.80	0.35	3.00	108.78	cum
	<u>Less for openings</u>						
	<u>R1 =2*6 Nos</u>	-12.00	2.40	0.35	2.40	-24.19	cum
	<u>V1 =2*8 Nos</u>	-16.00	2.40	0.35	0.60	-8.06	cum
	add provisional qutty					4.00	cum
						TOTAL	80.52 cum
						SAY	81.00 cum
15.00	Providing structural steel work in trusses, other similar trussed purlins and members-with all bracing, gusset plates etc. as per detailed designs and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position, making riveted/ bolted/ welded connection and painting complete.						
	<u>Maintenance Shed =2 Nos.Internal</u> <u>size=16.40mx8.80m</u>						
	trusses for sloping roofs =4*2sides*(7.70+19.10)/2	4.00	13.40	6.15	329.64	sqm	
	sloping roofs =0.5*4*2*6.15*(0+11.4)/2	4.00	5.70	6.15	140.22	sqm	
	add provisional qutty					5.00	sqm
						TOTAL	474.86 sqm
	@	40.00		Kg/sqm		18994.40	Kg.
	add provisional qutty for base plates etc	16.00	15.00	Kg/nos		240.00	Kg.
						TOTAL	19234.40 Kg.
						SAY	19.23 M.T
16.00	Anchoring roof trusses by 16 mm. diameter steel bars in position including all fixtures and fastening etc. complete.						
	<u>Maintenance Shed =2 Nos.Internal</u> <u>size=16.40mx8.80m</u>						
	or trusses for sloping roofs=4*4*4nos	64.00	0.60			38.40	m
	add provisional qutty					2.00	m
						TOTAL	40.40 m
						SAY	40.00 m
17.00	Providing and fixing corrugated galvanised iron sheet of 0.63 mm. thickftess (24 B.W.G.) for roofing without wind tiles including fastening with galvanised iron - screw and bolts and lead and bitumen washers as per drawing complete.						
	<u>Maintenance Shed =2 Nos.Internal</u> <u>size=16.40mx8.80m</u>						
	trusses for sloping roofs =2*2sides*(7.70+19.10)/2	4.00	13.40	6.15		329.64	sqm
	sloping roofs =0.5*2*2*6.15*(0+11.4)/2	4.00	5.70	6.15		140.22	sqm
	add provisional qutty					5.00	sqm
						TOTAL	474.86 sqm

I. No.	Item in Brief	No.	Length	Breadth	Height	Contents	unit
						SAY	475.00 sqm
18.00	Providing and fixing Ridge / valley gutter of 22 B.W.G. (0.63 mm.) plain galvanised iron sheets 120cm. wide with country teak wood planking 20 mm. thick including two coats of coal-taring the upper surface of plank (excluding painting to under side of plank).						
	<u>Maintenance Shed =2 Nos.Internal</u> <u>size=16.40mx8.80m</u>						
	ridge for sloping roofs=2*4sides*8.7	8.00	8.70				69.60 m
	top =2*7.7	2.00	7.70				15.40 m
	add provisional qutty						2.00 m
						TOTAL	87.00 m
						SAY	87.00 m
19.00	Providing and fixing steel window of various sizes as per detailed drawings fabricated from I.S. standard sections without hot dip zinc coating without/ with ventilator including fabrication, glazing with non-acetic/ plain/ obscured glass panels of approved type and quality, all fixtures and fastening without teak wood boxing, and architraves and finishing with one coat of primer complete with guard bars 12 mm. square bar 10 cm. centre to centre.						
	<u>Maintenance Shed =2 Nos.Internal</u> <u>size=16.40mx8.80m</u>						
	ventilatorV1 =2*8 Nos	16.00	2.40	0.60			23.04 sqm
						TOTAL	23.04 sqm
						SAY	23.00 sqm
20.00	Providing and fixing rolling steel shutters fabricated from 18 gauge steel laths with side guides, bottom rail, brackets, door suspension shaft, including rolling springs, locking arrangements and housing box at the top including mechanical gear operation arrangement and one coat of red lead primer.						
	<u>Maintenance Shed =2 Nos.Internal</u> <u>size=16.40mx8.80m</u>						
	for rolling shutter R1 =2*6 Nos	12.00	2.40	3.00			86.40 sqm
						TOTAL	86.40 sqm
						SAY	86.00 sqm
21.00	Providing and laying in required positions on wall or flooring of broken China mosaic (broken pieces of china) of approved colour and pattern on a bedding of 20 mm. thick 1:4 cement mortar with water proofing compound including neat cement float, giving proper slopes, compacting, curing and finishing complete						
	<u>Maintenance Shed =2 Nos.Internal</u> <u>size=16.40mx8.80m</u>						
	taken provisional	2.00	4.00	sqm			8.00 sqm
						TOTAL	8.00 sqm
						SAY	8.00 sqm

I. No.	Item in Brief	No.	Length	Breadth	Height	Contents	unit
22.00	Providing and laying cement concrete flooring 50 mm. thick with 1:2:3 cement concrete laid to proper level and slope in alternate bays, including compaction, filling joints, marking lines to give appearance of tiles of 30 cm. X 30 cm. or other size laid diagonally/ square etc. finishing smooth (with extra cement) in any colour as directed and curing. complete.						
	<u>Maintenance Shed =2 Nos.Internal</u> <u>size=16.40mx8.80m</u> add provisional qutty						2.00 sqm
						TOTAL	2.00 sqm
						SAY	2.00 sqm
23.00	Providing and laying Rough Shahabad Stone Flooring 25 mm. to 30 mm.-thick and of required width in plain/ diamond pattern on a bed of 1:6 cement mortar including cement float, striking joints,pointing in cement mortar 1:3 curing and cleaning etc. complete.						
	<u>Maintenance Shed =2 Nos.Internal</u> <u>size=16.40mx8.80m</u> All flooring add provisional qutty	2.00	16.40	8.80			288.64 sqm 10.00 sqm
						TOTAL	298.64 sqm
						SAY	299.00 sqm
24.00	Providing and laying Rough Shahabad Stone Flooring 50 mm. to 60 mm.-thick and of required width in plain/ diamond pattern on a bed of 1:6 cement mortar including cement float, striking joints,pointing in cement mortar 1:3 curing and cleaning etc. complete.						
	<u>Maintenance Shed =2 Nos.Internal</u> <u>size=16.40mx8.80m</u> 1.20m wide all round paving plinth add provisional qutty	2.00	58.00	1.20			139.20 sqm 10.00 sqm
						TOTAL	149.20 sqm
						SAY	149.00 sqm
25.00	Providing internal cement plaster 20 mm. thick in two coats in cement mortar 1:4 without neeru finish to concrete, brick surface, in all positions including scaffolding and curing complete.						
	<u>Maintenance Shed =2 Nos.Internal</u> <u>size=16.40mx8.80m</u> for brick walls Above plinth C/C =2*16.75+2*9.15 <u>Less for openings</u> <u>R1 =2*6 Nos</u> <u>V1 =2*8 Nos</u> add provisional qutty	4.00	51.80	3.00			621.60 sqm
		-24.00	2.40	2.40			-138.24 sqm
		-32.00	2.40	0.60			-46.08 sqm
							30.00 sqm
						TOTAL	467.28 sqm
						SAY	467.00 sqm

I. No.	Item in Brief	No.	Length	Breadth	Height	Contents	unit
26.00	Providing flush grooved pointing with cement mortar 1:3 for stone masonry work including scaffolding and curing complete. <u>Maintenance Shed =2 Nos.Internal</u> <u>size=16.40mx8.80m</u> add provisional qutty						10.00 sqm
						TOTAL	10.00 sqm
						SAY	10.00 sqm
27.00	Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to the plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days complete <u>Maintenance Shed =2 Nos.Internal</u> <u>size=16.40mx8.80m</u> for brick walls Above plinth C/C =2*16.75+2*9.15 <u>Less for openings</u> <u>R1 =2*6 Nos</u> <u>V1 =2*8 Nos</u> add provisional qutty	4.00	51.80	3.00		621.60 sqm	
		-24.00	2.40	3.00		-172.80 sqm	
		-32.00	2.40	0.60		-46.08 sqm	
						30.00 sqm	
						TOTAL	432.72 sqm
						SAY	433.00 sqm
28.00	Providing and applying three coat of synthetic enamel paint of approved colour to new structural steel work and wood work in buildings including scaffolding if necessary, cleaning and preparing the surface (excluding primer coat) complete. <u>Maintenance Shed =2 Nos.Internal</u> <u>size=16.40mx8.80m</u> trusses for sloping roofs =4*2sides*(7.70+19.10)/2 sloping roofs =0.5*4*2*6.15*(0+11.4)/2 for R/ shutter Window/ ventilator	4.00	13.40	6.15	2.60	857.06 sqm	
		4.00	5.70	6.15	2.60	364.57 sqm	
		12.00	2.40	3.00	2.60	224.64 sqm	
		16.00	2.40	0.60	1.00	23.04 sqm	
						TOTAL	1469.32 sqm
						SAY	1469.00 sqm
29.00	Providing and applying priming coat over new steel and other metal surfaces including preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign material and scoured with wire brushes, fine steel wool, scrappers, and sand paper, scaffolding etc.complete. <u>Maintenance Shed =2 Nos.Internal</u> <u>size=16.40mx8.80m</u> trusses for sloping roofs =4*2sides*(7.70+19.10)/2 sloping roofs =0.5*4*2*6.15*(0+11.4)/2 for R/ shutter Window/ ventilator	4.00	13.40	6.15	2.60	857.06 sqm	
		4.00	5.70	6.15	2.60	364.57 sqm	
		12.00	2.40	3.00	2.60	224.64 sqm	
		16.00	2.40	0.60	1.00	23.04 sqm	
						TOTAL	1469.32 sqm
						SAY	1469.00 sqm

ANALYSIS OF RATE - SH 12

NAME OF WORK :- DPR for Construction of Maintenance Shed at left side bank ZONE N-III, Nanded.

		29.01.2007	
ITEM	Description of Item	Rate	Unit
1.00	Excavation for foundation in earth, soils of all types, sand, Gravel and soft murum, including removing the excavated materiakigto a distance of 50 m. beyond the building area stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering (including shoring and strutting) etc. complete. (Lift upto 1.50 Metre).		
	Rate as per PWD DSR-2006-07, I.No-1 P.No-7	46.00	Per CUM
	Add 5% corporation Charges	2.30	Per CUM
	Total	48.30	Per CUM
2.00	Providing and filling in the foundation with sand of approved quality including compaction complete.		
	Rate as per PWD DSR-2006-07, I.No-18 P.No-10	140.00	Per CUM
	Add royalty charge	17.67	Per CUM
	Add 5% corporation Charges	7.00	Per CUM
	Total	164.67	Per CUM
	say	164.65	Per CUM
3.00	Providing dry trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm. to 20 cm. thick including hand packing and compacting complete		
	Rate as per PWD DSR-2006-07, I.No-17 P.No-10	129.00	Per CUM
	add Lead charges 13Km =(182.68-103.66)	79.02	Per CUM
	Total	208.02	Per CUM
	Add royalty charge	17.67	Per CUM
	Add 5% corporation Charges	10.40	Per CUM
	Total	236.09	Per CUM
	say	236.10	Per CUM
4.00	Providing selected hard murum filling including laying in layers of 15 cm. to 20 cm. thick layers including watering and compacting etc. complete as directed by Engineer in charge		
	Rate as per PWD DSR-2006-07, I.No-737 P.No-266	85.00	Per CUM
	add Lead charges 13Km =(149.32-84.73)	64.59	Per CUM
	Total	149.59	Per CUM
	Add royalty charge	17.67	Per CUM
	Add 5% corporation Charges	7.48	Per CUM
	Total	174.74	Per CUM
	say	174.75	Per CUM
5.00	Providing and laying in situ cement concrete M-10/ 1:3:6 of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including dewatering, formwork, compacting, roughening them if special finish is to be provided, finishing if required and curing etc. complete. (4.42 Bag/ Cum.)		
	Rate as per PWD DSR-2006-07, I.No-30 P.No-15	1634.00	Per CUM
	add Lead charges 13Km =(149.32-84.73)*0.9	58.13	Per CUM
	add Lead charges for sand 20Km =(204.08-84.73)*0.45	53.71	Per CUM
	Total	1745.84	Per CUM

Add royalty charge =17.67*(0.90+0.45)	23.85 Per CUM
Add 5% corporation Charges	87.29 Per CUM
Total	1856.98 Per CUM
say	1857.00 Per CUM

6.00 Filling in plinth and floors with contractor's soil, sand or murum in 15 cm. to 20 cm. layers including watering and compaction etc. complete.

Rate as per PWD DSR-2006-07, I.No-16 P.No-10	91.00 Per CUM
add Lead charges 13Km =(149.32-84.73)	64.59 Per CUM
Total	155.59 Per CUM
Add royalty charge	17.67 Per CUM
Add 5% corporation Charges	7.78 Per CUM
Total	181.04 Per CUM
say	181.05 Per CUM

7.00 Providing and laying in situ cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for reinforced cement concrete work in foundation like raft, grillages, strip foundation and footings of reinforced cement concrete columns and steel stanchion including bailing out water, form work, compaction and finishing, curing etc. complete. (Excluding steel reinforcement and structural steel) (7.60 Bag/ Cum.)

Rate as per PWD DSR-2006-07, I.No-46 P.No-19	2482.00 Per CUM
add Lead charges 13Km =(149.32-84.73)*0.9	58.13 Per CUM
add Lead charges for sand 20Km =(204.08-84.73)*0.45	53.71 Per CUM
Total	2593.84 Per CUM
Add royalty charge =17.67*(0.90+0.45)	23.85 Per CUM
Add 5% corporation Charges	129.69 Per CUM
Total	2747.38 Per CUM
say	2747.40 Per CUM

8.00 Providing and casting in situ cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for reinforced cement concrete columns as per detailed designs and drawing, or as directed including centering, formwork, compacting and finishing the form surfaces with cement mortar 1:3 of sufficient minimum thickness, to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete.

Rate as per PWD DSR-2006-07, I.No-49 P.No-20	3247.00 Per CUM
add Lead charges 13Km =(149.32-84.73)*0.9	58.13 Per CUM
add Lead charges for sand 20Km =(204.08-84.73)*0.45	53.71 Per CUM
Total	3358.84 Per CUM
Add royalty charge =17.67*(0.90+0.45)	23.85 Per CUM
Add 5% corporation Charges	167.94 Per CUM
Total	3550.63 Per CUM
say	3550.65 Per CUM

9.00 Providing and casting in situ cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for reinforced cement concrete beams and lintels as per detailed designs and drawings, or as directed including, centering, form work, compaction and roughening the surface if special finishing to be provided and curing etc. complete. (Excluding reinforcement) (7.60 Bag/ Cum.)

Rate as per PWD DSR-2006-07, I.No-52 P.No-21	3325.00 Per CUM
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add Lead charges 13Km $= (149.32 - 84.73) * 0.9$	58.13 Per CUM
add Lead charges for sand 20Km $= (204.08 - 84.73) * 0.45$	
	<u>53.71 Per CUM</u>
Total	3436.84 Per CUM
Add royalty charge $= 17.67 * (0.90 + 0.45)$	23.85 Per CUM
Add 5% corporation Charges	<u>171.84 Per CUM</u>
Total	3632.53 Per CUM
say	<u>3632.55 Per CUM</u>

10.00 Providing and casting in situ cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for reinforced cement concrete slabs and landings as per detailed designs and drawings, including, centering, form work, compacting and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement) (7.60 Bag/ Cum.)

Rate as per PWD DSR-2006-07, I.No-54 P.No-22	2929.00 Per CUM
add Lead charges 13Km $= (149.32 - 84.73) * 0.9$	58.13 Per CUM
add Lead charges for sand 20Km $= (204.08 - 84.73) * 0.45$	
	<u>53.71 Per CUM</u>
Total	3040.84 Per CUM
Add royalty charge $= 17.67 * (0.90 + 0.45)$	23.85 Per CUM
Add 5% corporation Charges	<u>152.04 Per CUM</u>
Total	3216.73 Per CUM
say	<u>3216.75 Per CUM</u>

11.00 Providing and laying HYSD bars with cement polymer composite coating (CPCC) anticorrosive epoxy treatment for reinforcement for structure including cutting, bending hooking by machine, trying in position including binding wire, spacers, chairs, cover blocks as per detailed drawing including all leads and lifts etc. complete.

With anti corrosive treatment either by CPCC or by FBEC.

Including addition of CPCC rate	5,000.00 Per M.T.
Rate as per PWD DSR-2006-07 I.No-803 P.No-283	<u>33,232.00 Per M.T.</u>
Total	38,232.00 Per M.T.
Add corporation charges @ 5%	<u>1,911.60 Per M.T.</u>
Total	40,143.60 Per M.T.
Say	<u>40,143.60 Per M.T.</u>

12.00 Providing uncoursed rubble masonry of trap/ granite/ quartzite/ gneiss stones in cement mortar 1:6 in foundation and plinth of inner walls / in plinth of external walls including bailing out water manually, striking joints on unexposed faces and watering complete

Rate as per PWD DSR-2006-07, I.No-99 P.No-57	788.00 Per CUM
add Lead charges 13Km $= (182.68 - 103.66)$	<u>79.02 Per CUM</u>
Total	867.02 Per CUM
Add royalty charge	17.67 Per CUM
Add 5% corporation Charges	<u>43.35 Per CUM</u>
Total	928.04 Per CUM
say	<u>928.05 Per CUM</u>

13.00 Providing coursed rubble masonry first sort of trap/ granite/ quartzite/ gneiss stones in cement mortar 1:6 in external wall of plinth including bailing out water manually, striking joints inside and watering.

Rate as per PWD DSR-2006-07, I.No-103 P.No-57	1083.00 Per CUM
add Lead charges 13Km $=(182.68-103.66)$	<u>79.02 Per CUM</u>
Total	1162.02 Per CUM
Add royalty charge	17.67 Per CUM
Add 5% corporation Charges	<u>58.10 Per CUM</u>
Total	1237.79 Per CUM
say	<u>1237.80 Per CUM</u>

14.00 Providing First class burnt Brick masonry with conventional / Indian Standard type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding complete.

Rate as per PWD DSR-2006-07, I.No-85 P.No- 51	1462.00 Per CUM
add Lead charges 8Km $=(641.11-487.19)*500/3500$	<u>21.99 Per CUM</u>
Total	1483.99 Per CUM
Add 5% corporation Charges	<u>74.20 Per CUM</u>
Total	1558.19 Per CUM
say	<u>1558.20 Per CUM</u>

15.00 Providing structural tubular steel works in trusses, other similar trussed purlins and members-with all bracing, gusset plates etc. as per detailed designs and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position, making riveted/ bolted/ welded connection and painting complete.

Rate as per PWD DSR-2006-07, I.No-23 P.No-11	<u>37,767.00 Per M.T.</u>
Total	37,767.00 Per M.T.
Add 5% corporation Charges	<u>1,888.35 Per M.T.</u>
Total	<u>39,655.35 Per M.T.</u>

16.00 Anchoring roof trusses by 16 mm. diameter steel bars in position including all fixtures and fastening etc. complete.

Rate as per PWD DSR-2006-07, I.No-24 P.No-11	64.00 Per Rg.M.
Add 5% corporation Charges	<u>3.20 Per Rg.M.</u>
Total	<u>67.20 Per Rg.M.</u>

17.00 Providing and fixing corrugated galvanised iron sheet of 0.63 mm. thickfess (24 B.W.G.) for roofing without wind tiles including fastening with galvanised iron -screw and bolts and lead and bitumen washers as per drawing complete.

Rate as per PWD DSR-2006-07, I.No-283 P.No-116	341.00 Per SQM
Add 5% corporation Charges	<u>17.05 Per SQM</u>
Total	<u>358.05 Per SQM</u>

18.00 Providing and fixing valley gutter of 22 B.W.G. (0.63 mm.) plain galvanised iron sheets 120cm. wide with country teak wood planking 20 mm. thick including two coats of coal-taring the upper surface of plank (excluding painting to under side of plank).

Rate as per PWD DSR-2006-07, I.No-284 P.No -116	1087.00 Per Rg.M.
Add 5% corporation Charges	<u>54.35 Per Rg.M.</u>
Total	<u>1141.35 Per Rg.M.</u>

19.00	Providing and laying in required positions on wall or flooring of broken China mosaic (broken pieces of china) of approved colour and pattern on a bedding of 20 mm. thick 1:4 cement mortar with water proofing compound including neat cement float, giving proper slopes, compacting, curing and finishing complete	Rate as per PWD DSR-2006-07, I.No-186 P.No-92	285.00 Per SQM
		Add 5% corporation Charges	14.25 Per SQM
		Total	<u>299.25 Per SQM</u>
20.00	Providing and fixing steel window of various sizes as per detailed drawings fabricated from I.S. standard sections without hot dip zinc coating without/ with ventilator including fabrication, glazing with non-acetic/ plain/ obscured glass panels of-approved type and quality, all fixtures and fastening without teak wood boxing, and architraves and finishing with one coat of primer complete with guard bars 12 mm. square bar 10 cm. centre to centre.	Rate as per PWD DSR-2006-07, I.No-366 P.No-142	1512.00 Per SQM
		Add 5% corporation Charges	75.60 Per SQM
		Total	<u>1587.60 Per SQM</u>
21.00	Providing and fixing rolling steel shutters fabricated from 18 gauge steel laths with side guides, bottom rail, brackets, door suspension shaft, including rolling springs, locking arrangements and housing box at the top including mechanical gear operation arrangement and one coat of red lead primer.	Rate as per PWD DSR-2006-07, I.No-371 P.No-143	1575.00 Per SQM
		Add 5% corporation Charges	78.75 Per SQM
		Total	<u>1653.75 Per SQM</u>
22.00	Providing and laying cement concrete flooring 50 mm. thick with 1:2:3 cement concrete laid to proper level and slope in alternate bays, including compaction, filling joints, marking lines to give appearance of tiles of 30 cm. X 30 cm. or other size laid diagonally/ square etc. finishing smooth (with extra cement) in any colour as directed and curing. complete.	Rate as per PWD DSR-2006-07, I.No-169 P.No-87	141.00 Per SQM
		Add 5% corporation Charges	7.05 Per SQM
		Total	<u>148.05 Per SQM</u>
23.00	Providing and laying polished Shahabad Stone Flooring 25 mm. to 30 mm thick and 45 cm wide in plain/ diamond pattern on a bed of 1:6 cement mortar including cement float, filling joints with cement slurry, cutting, polishing and cleaning complete.	Rate as per PWD DSR-2006-07, I.No-159 P.No-85	303.00 Per SQM
		Add 5% corporation Charges	15.15 Per SQM
		Total	<u>318.15 Per SQM</u>
24.00	Providing and laying Rough Shahabad Stone Flooring 50 mm. to 60 mm.-thick and of required width in plain/ diamond pattern on a bed of 1:6 cement mortar including cement float, striking joints, pointing in cement mortar 1:3 curing and cleaning etc. complete.	Rate as per PWD DSR-2006-07, I.No-158 P.No-85	201.00 Per sqm
		Add 5% corporation Charges	<u>10.05 Per sqm</u>

Total 211.05 Per sqm

25.00 Providing internal cement plaster 20 mm. thick in two coats in cement mortar 1:4 without neeru finish to concrete, brick surface, in all positions including scaffolding and curing complete.

Rate as per PWD DSR-2006-07, I.No-139 P.No-80 75.00 Per SQM
Add 5% corporation Charges 3.75 Per SQM
Total 78.75 Per SQM

26.00 Providing flush grooved pointing with cement mortar 1:3 for stone masonry work including scaffolding and curing complete.

Rate as per PWD DSR-2006-07, I.No-147 P.No-82 28.00 Per SQM
Add 5% corporation Charges 1.40 Per SQM
Total 29.40 Per SQM

27.00 Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to the plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days complete

Rate as per PWD DSR-2006-07, I.No-243 P.No-104 19.00 Per SQM
Add 5% corporation Charges 0.95 Per SQM
Total 19.95 Per SQM

28.00 Providing and applying three coats of synthetic enamel paint of approved colour to new structural steel work and wood work in buildings including scaffolding if necessary, cleaning and preparing the surface (excluding primer coat) complete.

Rate as per PWD DSR-2006-07, I.No-236 P.No-103 30.00 Per SQM
Add 5% corporation Charges 1.50 Per SQM
Total 31.50 Per SQM

29.00 Providing and applying priming coat over new steel and other metal surfaces including preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign material and scoured with wire brushes, fine steel wool, scrappers, and sand paper, scaffolding etc.complete.

Rate as per PWD DSR-2006-07, I.No-245 P.No-105 8.00 Per SQM
Add 5% corporation Charges 0.40 Per SQM
Total 8.40 Per SQM

LEAD CHART - SH 12

Reference :- Irrigation Division, Nanded.

S.No.	Name of Material	Total Lead in Km.
1	Cement/ Tiles/ Tandur /Tile/ Precast Tile	with in Initial lead of 5Km
2	Tor Steel / Mild steel	with in Initial lead of 5Km
3	All Type Paints etc.	with in Initial lead of 5Km
4	Rubble / stone	18 - 5 = 13Km
5	Metal (All Types)	18 - 5 = 13Km
6	Sand	26 - 5 = 21Km (say 20Km)
7	Murum	18 - 5 = 13Km