

ABSTRACT OF COST - SH 03

NAME OF WORK :- DPR for Construction of Amphitheater 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 including shoring and strutting as necessary and disposing off excavated stuff as directed In earth, soils of all type sand, gravel, soft murum etc. complete (excluding dewatering if separately provided etc. complete) as directed by Engineer in charge for depth-of-1.5m.	7,079.00 CUM	134.05	CUM	Rs 948,940.00	, Item no- 751, P-270
2.00	Providing and filling with approved Sand, shingle below raft including watering, compaction etc. complete as directed by Engineer in charge.	434.00 CUM	252.35	CUM	Rs 109,520.00	Item no- 759, P-271
3.00	Providing dry trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm. to 20 cm. thick including hand packing and compacting complete	333.00 CUM	236.10	CUM	Rs 78,621.00	Item 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	155.00 CUM	174.75	CUM	Rs 27,086.00	Item no-737 P.No-266
5.00	Providing and laying in situ cement concrete in 1:5:10 of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including bailing out water, form work, compacting, finishing if required and curing etc. complete.	155.00 CUM	1,241.65	CUM	Rs 192,456.00	I.No-32 P.No-16
6.00	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)	268.00 CUM	2,747.40	CUM	Rs 736,303.00	I.No-46 P.No-19
7.00	Providing and laying in situ controlled reinforced cement concrete of M-20 for cut off walls, Walls (of any thickness) including form work, scaffolding, compaction, by vibrating, finishing, curing etc. complete as directed by Engineer in charge. (7.60 bags/ Cum.)	307.00 CUM	3252.45	CUM	Rs 998,502.00	I.No-764 P.No-273

ITEM	Description of Item	Quantity	Rate	Unit	Amount	Reference
8.00	Providing and casting in situ cement concrete M-20/ 1: 1½ :3 of trap/ granite/ quartzite/ gneiss metal for coping to plinth or parapet, moulded or chamfered as per drawings or as directed including centering, formwork, compacting, roughening them if special finish is to be provided, finishing if required and curing etc. complete.(7.60 Bag/ Cum.)	26.00 CUM	2,751.60	CUM	Rs 71,542.00	I.No-36 P.No-17
9.00	Providing and casting in situ cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for steps including centering, form work, compacting, finishing the exposed faces with sufficient minimum thickness of 1:3 cement plaster to give a smooth and even surface or roughening them if special finish is to be provided and curing etc. complete.(7.60 Bag/Cum.)	4.00 CUM	2,626.65	CUM	Rs 10,507.00	I.No-33 P.No-16
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.)	5.00 CUM	3,216.75	CUM	Rs 16,084.00	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.	52.17 MT	40,143.60	MT	Rs 2,094,292.00	I.No-803 P.No-283
12.00	Providing earth work for embankment with approved materials obtained by excavation from departmental land or other sources including all lifts and leads upto 50 m, laying in layers of 20 cm. to 30 cm. thickness breaking clods, dressing to the required lines, curves, grade and section, watering and Compaction with power roller etc. complete as directed by Engineer in charge.	1,234.00 CUM	36.75	CUM	Rs 45,350.00	I.No-655 P.No-232
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.	397.00 CUM	928.05	CUM	Rs 368,436.00	I.No-99 P.No-57

ITEM	Description of Item	Quantity	Rate	Unit	Amount	Reference
14.00	Clearing and removing bushes, waste trees etc. on bank of river including stacking etc. complete as directed by Engineer in charge.	3,500.00 SQM	2.85	SQM	Rs 9,975.00	I.No-K-50 P.No-41
15.00	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.	288.00 SQM	211.05	SQM	Rs 60,782.00	I.No-158 P.No-85
16.00	Providing and fixing mudhugal granite Stone block, chisel dressed (two line chisel dressed) Flooring /paving with 70 mm. thick of sizes with hand cut edges and smooth chisel dressed on top (top surface undulation not exceeding more than 3mm) in required pattern, laid with the other stones, for paving, floors etc. laid over 20mm thick base mortar 1:4 (1 cement : 4 coarse sand) with joints 20mm (average) wide filled with same mortar and 4mm deep recessed pointing with cement mortar 1:2 (1 cement : 2 stone dust) including , cleaning, curing etc.all complete as per approved drawing and direction of Engineer in charge.	50.00 SQM	1,778.85	SQM	Rs 88,943.00	A.R. attached
17.00	Providing and laying chisel dressed (two line chisel dressed) granite Stone blocks in steps & risers with fine dressed edges of steps 70 mm. to 80 mm.-thick and of required width in plain/ diamond pattern on a bed of 1:4 cement mortar including cement float, striking joints,pointing in cement mortar 1:3 curing and cleaning etc. complete.	179.00 SQM	3,037.75	SQM	Rs 543,757.00	A.R. attached
GRAND TOTAL					Rs 6,401,096.00	

DETAILS OF MEASUREMENT - SH 03

29.01.2007

NAME OF WORK :- DPR for Construction of Amphitheater at left side bank ZONE N-III,

I. No.	Item in Brief	No.	Length	Total Length	Breadth	Contents	unit
			Meter	Meter	Meter	Area	
1:	Amphitheatre						
	add for stage area 1/2 of 24m dia	1.5715	12.00	12.00	12.00	226.30	
	Below the sitting steps avg length					437.75	
	51.5mtrs	17.00	51.50	875.50	0.50		
		1.00	67.20	67.20	0.25	16.80	
	below the back side steps	2.00	35.00	70.00	0.25	17.50	
	Total			1024.70		698.35 sqm	

I. No.	Item in Brief	No.	Length	Breadth	Height	Contents	unit
			Meter	Meter	Meter		
1.00	Excavation for foundation including shoring and strutting as necessary and disposing off excavated stuff as directed						
	<u>1: Amphitheatre</u>						
	<u>for bottom profile cutting of steps & landing portion.....</u>						
	...as per calculation sheet no-i below the Amphitheater					4032.38 cum	
	add for stage area 1/2 of 24m dia	1.5715	12.00	12.00	5.00	1131.48 cum	
	below the back side steps	1.00	25.00	3.50	3.00	262.50 cum	
	<u>For R.C.C. wall foundation.....Total depth =1.50+0.82m (for fillings below the foundation) =2.32m</u>						
	for long... end toe wall 0.30m thick at bank (2.32m depth for soil)... Detail F	1.00	26.00	1.70	1.63	72.05 cum	
	sides wall... Detail H	1.00	35.00	2.30	1.63	131.22 cum	
		1.00	28.00	2.30	1.63	104.97 cum	
	back wall	1.00	67.20	2.30	1.63	251.93 cum	
	stair steps wall... Detail F	1.00	31.00	1.70	1.63	85.90 cum	
	intermediate steps wall 0.20m thick (2.32m for soil depth) =(36+65.5)/2	17.00	51.50	0.80	0.63	441.25 cum	
	cross....intermediate middle steps wall 0.20m thick	2.00	40.00	1.30	1.63	169.52 cum	
	for change room.. Walls c/c =2*8.5+3*3.6	1.00	27.80	1.30	1.63	58.91 cum	
	Add for small portions ..L.S	6742.10 cum		5.00	%	337.11 cum	
						TOTAL	7079.21 cum
						SAY	7,079.00 cum

2.00 Providing and filling with approved Sand, shingle below raft including watering, compaction etc. ..

Under floor ...below the base slab
....0.30m thick sand filling over ground

I. No.	Item in Brief	No.	Length	Total Length	Breadth	Contents	unit
	<u>1: Amphitheatre</u>						
	<u>Under floor</u>						
	add for stage area 1/2 of 24m dia	1.5715	12.00	12.00	0.30	67.89 cum	
	Below the sitting steps	17.00	51.50	0.80	0.30	210.12 cum	
	below the back side steps	1.00	25.00	3.50	0.30	26.25 cum	
	<u>Below the foundation</u>					0.00	
	for long... end toe wall 0.30m thick at						
	bank (2.32m depth for soil)... Detail F	1.00	26.00	1.70	0.30	13.26 cum	
	sides wall... Detail H	1.00	35.00	2.30	0.30	24.15 cum	
		1.00	28.00	2.30	0.30	19.32 cum	
	back wall	1.00	67.20	2.30	0.30	46.37 cum	
	stair steps wall... Detail F	1.00	31.00	1.70	0.30	15.81 cum	
	for change room.. Walls c/c						
	=2*8.5+3*3.6	1.00	27.80	1.30	0.30	10.84 cum	
						TOTAL	434.01 cum
						SAY	434.00 cum
3.00	Providing dry trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm. to 20 cm. thick including hand packing and <u>Under floor ...below the base slab ...0.23m thick stone soling/ filling over sand</u>						
	<u>1: Amphitheatre</u>						
	<u>Under floor ...</u>						
	add for stage area 1/2 of 24m dia	1.5715	12.00	12.00	0.23	52.05 cum	
	Below the sitting steps	17.00	51.50	0.80	0.23	161.09 cum	
	below the back side steps	1.00	25.00	3.50	0.23	20.13 cum	
	<u>Below the foundation</u>				0.23	0.00	
	for long... end toe wall 0.30m thick at						
	bank (2.32m depth for soil)... Detail F	1.00	26.00	1.70	0.23	10.17 cum	
	sides wall... Detail H	1.00	35.00	2.30	0.23	18.52 cum	
		1.00	28.00	2.30	0.23	14.81 cum	
	back wall	1.00	67.20	2.30	0.23	35.55 cum	
	stair steps wall... Detail F	1.00	31.00	1.70	0.23	12.12 cum	
	for change room.. Walls c/c						
	=2*8.5+3*3.6	1.00	27.80	1.30	0.23	8.31 cum	
						TOTAL	332.74 cum
						SAY	333.00 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>Under floor ...below the base slab ...0.10m thick muram for grouting the stone soling/ filling over sand</u>						
	<u>1: Amphitheatre</u>						
	<u>Under floor ...</u>						

I. No.	Item in Brief	No.	Length	Total Length	Breadth	Contents	unit
	add for stage area 1/2 of 24m dia	1.5715	12.00	12.00	0.10	22.63 cum	
	Below the sitting steps	17.00	51.50	0.80	0.10	70.04 cum	
	below the back side steps	1.00	25.00	3.50	0.10	8.75 cum	
	<u>Below the foundation</u>				0.10	0.00	
	for long... end toe wall 0.30m thick at bank (2.32m depth for soil)... Detail F	1.00	26.00	1.70	0.10	4.42 cum	
	sides wall... Detail H	1.00	35.00	2.30	0.10	8.05 cum	
		1.00	28.00	2.30	0.10	6.44 cum	
	back wall	1.00	67.20	2.30	0.10	15.46 cum	
	stair steps wall... Detail F	1.00	31.00	1.70	0.10	5.27 cum	
	cross....intermediate middle steps wall 0.20m thick	2.00	40.00	1.30	0.10	10.40 cum	
	for change room.. Walls c/c =2*8.5+3*3.6	1.00	27.80	1.30	0.10	3.61 cum	
						TOTAL 155.07 cum	
						SAY 155.00 cum	

5.00 Providing and laying in situ cement concrete in 1:5:10 of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including bailing out water, form work, compacting,

1: Amphitheatre

	add for stage area 1/2 of 24m dia	1.5715	12.00	12.00	0.10	22.63 cum	
	Below the sitting steps	17.00	51.50	0.80	0.10	70.04 cum	
	below the back side steps	1.00	25.00	3.50	0.10	8.75 cum	
	<u>Below the foundation</u>				0.10	0.00	
	for long... end toe wall 0.30m thick at bank (2.32m depth for soil)... Detail F	1.00	26.00	1.70	0.10	4.42 cum	
	sides wall... Detail H	1.00	35.00	2.30	0.10	8.05 cum	
		1.00	28.00	2.30	0.10	6.44 cum	
	back wall	1.00	67.20	2.30	0.10	15.46 cum	
	stair steps wall... Detail F	1.00	31.00	1.70	0.10	5.27 cum	
	cross....intermediate middle steps wall 0.20m thick	2.00	40.00	1.30	0.10	10.40 cum	
	for change room.. Walls c/c =2*8.5+3*3.6	1.00	27.80	1.30	0.10	3.61 cum	
						TOTAL 155.07 cum	
						SAY 155.00 cum	

6.00 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

1: Amphitheatre

I. No.	Item in Brief	No.	Length	Total Length	Breadth	Contents	unit
	<u>Under floor</u> ...base slab0.20m thick RCC base over c.c						
	add for stage area 1/2 of 24m dia	1.5715	12.00	12.00	0.20	45.26 cum	
	Below the sitting steps	17.00	51.50	0.60	0.20	105.06 cum	
	below the back side steps	1.00	25.00	3.50	0.20	17.50 cum	
	<u>Below the foundation</u>				0.20	0.00	
	for long... end toe wall 0.30m thick at bank (2.32m depth for soil)... Detail F	1.00	26.00	1.50	0.20	7.80 cum	
	sides wall... Detail H	1.00	35.00	2.10	0.20	14.70 cum	
		1.00	28.00	2.10	0.20	11.76 cum	
	back wall	1.00	67.20	2.10	0.20	28.22 cum	
	stair steps wall... Detail F	1.00	31.00	1.50	0.20	9.30 cum	
	cross....intermediate middle steps wall 0.20m thick	2.00	40.00	1.30	0.20	20.80 cum	
	for change room.. Walls c/c =2*8.5+3*3.6	1.00	27.80	1.30	0.20	7.23 cum	
						TOTAL	267.63 sqm
						SAY	268.00 sqm

7.00 Providing and laying in situ controlled reinforced cement concrete of M-20 for **cut off walls, Walls** (of any thickness) including form work, scaffolding, compaction, by vibrating, finishing, curing etc. complete as directed by Engineer in charge. (7.60 bags/ Cum.)

1: Amphitheatre

					<u>Avg. Ht.</u>		
	<u>For wall</u>						
	for long... end toe wall 0.30m thick at bank (2.32m depth for soil)... Detail F	1.00	26.00	0.20	2.30	11.96 cum	
	sides wall... Detail H	1.00	35.00	0.35	5.00	61.25 cum	
		1.00	28.00	0.35	5.00	49.00 cum	
	back wall..	1.00	67.20	0.35	5.00	117.60 cum	
	stair steps wall... Detail F	1.00	31.00	0.20	2.30	14.26 cum	
	cross....intermediate middle steps wall 0.20m thick	2.00	40.00	0.20	2.30	36.80 cum	
	for change room.. Walls c/c =2*8.5+3*3.6	1.00	27.80	0.20	3.00	16.68 cum	
	less opening	-2.00	0.90	0.20	2.10	-0.76 cum	
						0.00 cum	
						TOTAL	306.79 cum
						SAY	307.00 cum

8.00 Providing and casting in situ cement concrete M-20/ 1: 1½ :3 of trap/ granite/ quartzite/ gneiss metal for coping to plinth or **parapet**, moulded or chamfered as per drawings

1: Amphitheatre

I. No.	Item in Brief	No.	Length	Total Length	Breadth	Contents	unit
	sides wall... Detail H	1.00	35.00	0.10	1.50	5.25 cum	
		1.00	28.00	0.10	1.50	4.20 cum	
	back wall..	1.00	67.20	0.10	1.50	10.08 cum	
	cross....intermediate middle steps wall 0.20m thick	2.00	40.00	0.10	0.75	6.00 cum	
					TOTAL	25.53 cum	
					SAY	26.00 cum	
9.00	Providing and casting in situ cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for steps including centering, form work, compacting, finishing the exposed faces with ...						
	1: Amphitheatre						
	Total steps =9*6nosx0.50	27.00	2.00	0.30	0.15	2.43 cum	
	at back side steps=2*12*0.5	12.00	3.00	0.30	0.15	1.62 cum	
					TOTAL	4.05 cum	
					SAY	4.00 cum	
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.)						
	1: Amphitheatre						
	for change room.. Walls c/c =2*8.5+3*3.6	1.00	8.70	3.80	0.15	4.96 cum	
					TOTAL	4.96 cum	
					SAY	5.00 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.... for portion of RCC as per i/no						
	I/no- 11 raft, strip foundation and footings	267.63		@	80.00 Kg/m	21410.50 Kg	
	I/no- 12 ... cut off walls, Walls	306.79		@	90.00 Kg/m	27611.46 Kg	
	I/no- 13 forcoping to plinth or parapet	26.00		@	90.00 Kg/m	2340.00 Kg	
	I/no- 14 for ... steps	4.00		@	90.00 Kg/m	360.00 Kg	
	I/no- 16 for ...slabs and landings	5.00		@	90.00 Kg/m	450.00 Kg	

I. No.	Item in Brief	No.	Length	Total Length	Breadth	Contents	unit
						0.00 Kg	
						TOTAL 52171.96 Kg	
						SAY 52.17 M.T	
12.00	Providing earth work for embankment with approved materials obtained by excavation from departmental land or other sources including all lifts and leads upto 50 m, laying in layers of 20 cm. to 30 cm. thickness breaking clods, dressing to the required lines, curves, grade and section, watering and Compaction with power roller etc. complete as directed by Engineer in charge.						
	1: Amphitheatre						
	for back filling in foundations of walls etc. taken as area for filling =67%						
	<u>For R.C.C. wall foundation.....Total depth =1.50+0.82m (for fillings below the foundation) =2.32m</u>						
	for long... end toe wall 0.30m thick at bank (2.32m depth for soil)... Detail F	0.67	26.00	1.70	1.63	48.27 cum	
	sides wall... Detail H	0.67	35.00	2.30	1.63	87.91 cum	
		0.67	28.00	2.30	1.63	70.33 cum	
	back wall	0.67	67.20	2.30	1.63	168.79 cum	
	stair steps wall... Detail F	0.67	31.00	1.70	1.63	57.55 cum	
	intermediate steps wall 0.20m thick (2.32m for soil depth) =(36+65.5)/2	6.03	50.75	1.30	1.63	648.46 cum	
	cross....intermediate middle steps wall 0.20m thick	1.34	40.00	1.30	1.63	113.58 cum	
	for change room.. Walls c/c =2*8.5+3*3.6	0.67	27.80	1.30	1.63	39.47 cum	
						TOTAL 1234.37 cum	
						SAY 1234.00 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.						
	1: Amphitheatre						
	Below the sitting steps	17.00	51.50	0.45	0.50	393.98 cum	
	for stage wall R.R. wall	1.00	20.00	0.30	0.45	2.70 cum	
						TOTAL 396.68 cum	
						SAY 397.00 cum	

I. No.	Item in Brief	No.	Length	Total Length	Breadth	Contents	unit
14.00	Clearing and removing bushes, waiste trees etc. on bank of river including						
	<u>1: Amphitheatre</u>						
	for total area	1.00	70.00	50.00		3500.00 sqm	
					TOTAL	3500.00 sqm	
					SAY	3500.00 sqm	
15.00	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						
	<u>1: Amphitheatre</u>						
	Below the sitting steps	17.00	51.50	0.50		437.75 sqm	
	below the back side steps	1.00	25.00	1.50		37.50 sqm	
	change room	2.00	3.30	3.60		23.76 sqm	
	stage	1.5715	12.00	12.00		226.30 sqm	
					TOTAL	287.56 sqm	
					SAY	288.00 sqm	
16.00	Providing and laying chisel dressed (two line chisel dressed) granite Stone block Flooring with 70 mm. to 80 mm.-thick stone and of required size laid 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>1: Amphitheatre</u>						
	for areas	5.00	2.00	5.00		50.00 sqm	
					TOTAL	50.00 sqm	
					SAY	50.00 sqm	
17.00	Providing and laying chisel dressed (two line chisel dressed) granite Stone blocks in steps & risers with fine dressed edges of steps 70 mm. to 80 mm.-thick and of required width in plain/ diamond pattern on a bed of 1:4 cement mortar including cement float, striking joints,pointing in cement mortar 1:3 curing and cleaning etc. complete.						
	<u>1: Amphitheatre</u>						
	for middle steps	63.00	2.00	0.30		37.80 sqm	
	riser	63.00	2.00	0.15		18.90 sqm	
	landings	9.00	1.50	2.00		27.00 sqm	
	back steps	48.00	3.00	0.30		43.20 sqm	
	riser	48.00	3.00	0.15		21.60 sqm	

I. No.	Item in Brief	No.	Length	Total Length	Breadth	Contents	unit
	landings	5.00	3.00	2.00			30.00 sqm
						TOTAL	178.50 sqm
						SAY	<u>179.00 sqm</u>

ANALYSIS OF RATE - SH 03**NAME OF WORK :- DPR for Construction of Amphitheater at left side bank ZONE N-III,**

ITEM	Description of Item	Rate	Unit
1.00	Excavation for foundation including shoring and strutting as necessary and disposing off excavated stuff as directed In earth, soils of all type sand, gravel, soft murum etc. complete (excluding dewatering if separately provided etc. complete) as directed by Engineer in charge for depth-of-1.5m.		
	Rate as per PWD DSR-2006-07, Item no- 751, P-270	61.00	Per CUM
	add conveying & shifting upto 3Km Lead	66.68	Per CUM
	Total	127.68	Per CUM
	Add 5% corporation Charges	6.38	Per CUM
	Total	134.06	Per CUM
	say	134.05	Per CUM
2.00	Providing and filling with approved Sand, shingle below raft including watering, compaction etc. complete as directed by Engineer in charge.		
	Rate as per PWD DSR-2006-07, Item no- 759, P-271	162.00	Per CUM
	add Lead charges 13Km =(149.32-84.73)	64.59	Per CUM
	Total	226.59	Per CUM
	Add royalty charge	17.67	Per CUM
	Add 5% corporation Charges	8.10	Per CUM
	Total	252.36	Per CUM
	say	252.35	
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	
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 in 1:5:10 of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including bailing out water, form work, compacting, finishing if required and curing etc. complete.		
	Rate as per PWD DSR-2006-07, I.No-32 P.No-16	1042.00	Per CUM
	add Lead charges for stone 13Km =(149.32-84.73)*0.94	60.71	Per CUM
	add Lead charges for sand 20Km =(204.08-84.73)*0.47	56.09	Per CUM
	Total	1158.81	Per CUM
	Add royalty charge =17.67*(0.94+0.47)	24.91	Per CUM
	Add 5% corporation Charges	57.94	Per CUM

	Total	1241.66 Per CUM
	say	<u>1241.65 Per CUM</u>
6.00 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	<u>2593.84 Per CUM</u>
	Add royalty charge $=17.67*(0.90+0.45)$	23.85 Per CUM
	Add 5% corporation Charges	129.69 Per CUM
	Total	<u>2747.38 Per CUM</u>
	say	<u>2747.40 Per CUM</u>
7.00 Providing and laying in situ controlled reinforced cement concrete of M-20 for cut off walls including form work, scaffolding, compaction, by vibrating, finishing, curing etc. complete as directed by Engineer in charge. (7.60 bags/ Cum.)		
	Rate as per PWD DSR-2006-07, I.No-764 P.No-273	2963.00 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	<u>3074.84 Per CUM</u>
	Add royalty charge $=17.67*(0.90+0.45)$	23.85 Per CUM
	Add 5% corporation Charges	153.74 Per CUM
	Total	<u>3252.43 Per CUM</u>
	say	<u>3252.45 Per CUM</u>
8.00 Providing and casting in situ cement concrete M-20/ 1: 1½ :3 of trap/ granite/ quartzite/ gneiss metal for coping to plinth or parapet, moulded or chamfered as per drawings or as directed including centering, formwork, compacting, roughening them if special finish is to be provided, finishing if required and curing etc. complete.(7.60 Bag/ Cum.)		
	Rate as per PWD DSR-2006-07, I.No-36 P.No-17	2486.00 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	<u>2597.84 Per CUM</u>
	Add royalty charge $=17.67*(0.90+0.45)$	23.85 Per CUM
	Add 5% corporation Charges	129.89 Per CUM
	Total	<u>2751.58 Per CUM</u>
	say	<u>2751.60 Per CUM</u>
9.00 Providing and casting in situ cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for steps including centering, form work, compacting, finishing the exposed faces with sufficient minimum thickness of 1:3 cement plaster to give a smooth and even surface or roughening them if special finish is to be provided and curing etc. complete.(7.60 Bag/Cum.)		
	Rate as per PWD DSR-2006-07, I.No-33 P.No-16	2367.00 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	<u>2478.84 Per CUM</u>
	Add royalty charge $=17.67*(0.90+0.45)$	23.85 Per CUM
	Add 5% corporation Charges	123.94 Per CUM
	Total	<u>2626.63 Per CUM</u>

say 2626.65 Per CUM

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 $=(204.08-84.73)*0.45$	53.71	Per CUM
Total	<u>3040.84</u>	Per CUM
Add royalty charge $=17.67*(0.90+0.45)$	23.85	Per CUM
Add 5% corporation Charges	152.04	Per CUM
Total	<u>3216.73</u>	Per CUM
say	<u>3216.75</u>	Per 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.

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	33,232.00	Per M.T.
Total	<u>38,232.00</u>	Per M.T.
Add corporation charges @ 5%	1,911.60	Per M.T.
Total	<u>40,143.60</u>	Per M.T.
Say	<u>40,143.60</u>	Per M.T.

12.00 Providing earth work for embankment with approved materials obtained by excavation from departmental land or other sources including all lifts and leads upto 50 m, laying in layers of 20 cm. to 30 cm. thickness breaking clods, dressing to the required lines, curves, grade and section, watering and Compaction with power roller etc. complete as directed by Engineer in charge.

Rate as per PWD DSR-2005-06, I.No-655 P.No-232	35.00	Per CUM
Add 5% corporation Charges	1.75	Per CUM
Total	<u>36.75</u>	Per CUM
say	<u>36.75</u>	Per CUM

13.00 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 $=(182.68-103.66)$	79.02	Per CUM
Total	<u>867.02</u>	Per CUM
Add royalty charge	17.67	Per CUM
Add 5% corporation Charges	43.35	Per CUM
Total	<u>928.04</u>	Per CUM
say	<u>928.05</u>	Per CUM

14.00 Clearing and removing bushes, waiste trees etc. on bank of river including stacking etc. complete as directed by Engineer in charge.

Rate as per PWD DSR-2005-06, K-50 P.No-41	2.70	Per sqm
Add 5% corporation Charges	0.14	Per sqm
Total	<u>2.84</u>	Per sqm
Say	<u>2.85</u>	Per sqm

15.00 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	10.05	Per sqm
Total	<u>211.05</u>	Per sqm

16.00 Providing and fixing mudhugal granite Stone block, chisel dressed (two line chisel dressed) Flooring /paving with 70 mm. thick of sizes with hand cut edges and smooth chisel dressed on top (top surface undulation not exceeding more than 3mm) in required pattern, laid with the other stones, for paving, floors etc. laid over 20mm thick base mortar 1:4 (1 cement : 4 coarse sand) with joints 20mm (average) wide filled with same mortar and 4mm deep recessed pointing with cement mortar 1:2 (1 cement : 2 stone dust) including , cleaning, curing etc.all complete as per approved drawing and direction of Engineer in charge.

as per a.r. attached	1694.15	Per sqm
Add 5% corporation Charges	84.71	Per sqm
Total	<u>1778.86</u>	Per sqm
Say	<u>1,778.85</u>	Per sqm

17.00 Providing and fixing mudhugal granite Stone block, chisel dressed (three line chisel dressed) in Tread & Riser paving with 70 mm. thick of sizes with hand cut edges with three line chisel dressed with half moulding and smooth chisel dressed on top (top surface undulation not exceeding more than 3mm) in required pattern, laid with the other stones, for paving, floors etc. laid over 20mm thick base mortar 1:4 (1 cement : 4 coarse sand) with joints 20mm (average) wide filled with same mortar and 4mm deep recessed pointing with cement mortar 1:2 (1 cement : 2 stone dust) including , cleaning, curing etc.all complete as per approved drawing and direction of Engineer in charge.

as per a.r. attached	2893.10	Per sqm
Add 5% corporation Charges	144.66	Per sqm
Total	<u>3037.76</u>	Per sqm
Say	<u>3,037.75</u>	Per sqm

SH-03**ANALYSIS OF RATE**

Item no-16 Providing and fixing mudhugal granite Stone block, chisel dressed (two line chisel dressed) Flooring /paving with 70 mm. thick of sizes with hand cut edges and smooth chisel dressed on top (top surface undulation not exceeding more than 3m

Details of cost for=10x0.60x0.90m = 5.40sqm

DESCRIPTION	UNIT	QTY	RATE	COST	REFERENCE
mudhugal granite Stone block, chisel dressed (two line chisel dressed) Flooring /paving with 70 mm. thick	sqm	5.94	970.00	5761.80	DSR-06-07 M.R.
add for cartage	M.T.	1.20	1400.00	1680.00	
labour for laying of stone --- Mason 1st	Nos.	1.00	220.00	220.00	
coolie	Nos.	1.50	65.00	97.50	0115 p-2
sundries				15.00	
TOTAL				7774.30	
Add For water charges @ 1%))))))))))))	Rs	77.74	
TOTAL))))))))))))	Rs	7852.04	
Add For contractor's profit & over head @10%))))))))))))	Rs	785.20	
TOTAL				8637.25	
20mm mortar 1:4 (1 cement : 4 coarse sand) for bed=5.40sqmx0.02m=0.11cum	sqm	5.94	75.00	445.50	139 p-80
20mm mortar 1:4 (1 cement : 4 coarse sand) for vertical joints=10x0.90x0.075x0.02=0.01cum	sqm	0.68	75.00	50.63	139 p-80
cement mortar 1:2 (1 cement : 3 stone dust) for pointing the joints=10*0.9*0.02	sqm	0.18	83.00	14.94	140 p-80
cost for 5.4sqm				9148.31	
Rate per sqm				1694.13	
SAY Rate per sqm				1694.15	

ANALYSIS OF RATE

Item no-17 Providing and fixing mudhugal granite Stone block, chisel dressed (three line chisel dressed) in Tread & Riser paving with 70 mm. thick of sizes with hand cut edges with three line chisel dressed with half moulding and smooth chisel dressed

Details of cost for=18*0.30m = 5.40sqm

DESCRIPTION	UNIT	QTY	RATE	COST	REFERENCE
mudhugal granite Stone block, chisel dressed (two line chisel dressed) Flooring /paving with 70 mm. thick	sqm	5.94	1345.00	7989.30	DSR-06-07 M.R.
add for Edge 3 line deressed half	Metre	18.00	200.00	3600.00	
add for cartage	M.T.	1.20	1400.00	1680.00	

labour for laying of stone --- Mason 1st	Nos.	1.00	220.00	220.00	
coolie	Nos.	1.50	65.00	97.50	0115 p-2
sundries				15.00	
TOTAL				13601.80	
Add For water charges @ 1%	*****	*****	Rs	136.02	
TOTAL	*****	*****	Rs	13737.82	
Add For contractor's profit & over head @10%	*****	*****	Rs	1373.78	
TOTAL				15111.60	
20mm mortar 1:4 (1 cement : 4 coarse sand) for bed=5.40sqm x 0.02m = 0.11 cum	sqm	5.94	75.00	445.50	139 p-80
20mm mortar 1:4 (1 cement : 4 coarse sand) for vertical joints=10x0.90x0.075x0.02=0.01 cum	sqm	0.68	75.00	50.63	139 p-80
cement mortar 1:2 (1 cement : 3 stone dust) for pointing the joints=10*0.9*0.02	sqm	0.18	83.00	14.94	140 p-80
cost for 5.4sqm				15622.66	
Rate per sqm				2893.09	
SAY Rate per sqm				2893.10	

LEAD CHART - SH 03

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