

**ABSTRACT OF COST - SH 04**

**NAME OF WORK :- DPR for Construction of Retaining walls & Development of Terrace at left side bank ZONE N-III,**

**29.01.2007**

ITEM	Description of Item	Quantity	Rate	Unit	Amount	Reference
					<b>PWD DSR-2006-07</b>	
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).	67,409.00	48.30	CUM	Rs 3,255,855.00	I.No-1 P.No-7
2.00	Providing and filling in the foundation with sand of approved quality including compaction complete.	2,290.00	164.65	CUM	Rs 377,049.00	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	1,758.00	236.10	CUM	Rs 415,064.00	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	1,150.00	174.75	CUM	Rs 200,963.00	Item no-737 P.No-266
5.00	Providing and laying in situ cement concrete 1:4:8 proportion with trap/ granite/ quartzite/ gneiss metal in foundation including necessary compacting and curing including formwork if required etc. complete as directed by Engineer in charge. (3.40 Bags/ Cum).	770.00	1,611.25	CUM	Rs 1,240,663.00	I.No-732 P.No-265
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.	22,255.00	181.05	CUM	Rs 4,029,268.00	I.No-16 P.No-10
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.)	698.00	2,747.40	CUM	Rs 1,917,685.00	I.No-46 P.No-19
8.00	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.)	740.00	3,252.45	CUM	Rs 2,406,813.00	I.No-764 P.No-273

ITEM	Description of Item	Quantity	Rate	Unit	Amount	Reference
9.00	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.)	18.00	3,216.75	CUM	Rs 57,902.00	I.No-54 P.No 22
10.00	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.)	5.00	2,626.65	CUM	Rs 13,133.00	I.No-33 P.No 16
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.	124.49	40,143.60	MT	Rs 4,997,477.00	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	1,224.00	928.05	CUM	Rs 1,135,933.00	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.	6336.00	1,237.80	CUM	Rs 7,842,701.00	I.No-103 P.No-57
14.00	Providing coursed rubble masonry first sort of trap/ granite/ quartzite/ gneiss stones in cement mortar 1:6 in superstructure including raking out joints on the inside when plastering is to be done, watering and scaffolding.	1,978.00	1,276.65	CUM	Rs 2,525,214.00	I.No-104 P.No-58
15.00	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.	97.00	163.80	SQM	Rs 15,889.00	I.No-152 P.No-85
16.00	Providing flush grooved pointing with cement mortar 1:3 for stone masonry work including scaffolding and curing complete.	4255.00	29.40	SQM	Rs 125,097.00	I.No-147 P.No-82

ITEM	Description of Item	Quantity	Rate	Unit	Amount	Reference
17.00	Providing & fixing Stainless steel hand rails , blusters, post, Pergolas, railings & similar works etc. using Brush finished Stainless steel members ( Stainless Steel Grade 304 and finish no-4 ) including hold fasts, screws, nut bolts, fasteners, etc. with cutting, hoisting, fixing & argon welding etc. in position as per approved drawing and direction of Engineer in charge. ( work shall be executed through specialized agency only )	360.00	581.05	MT	Rs 209,178.00	A.R. on Market Rate
<b>GRAND TOTAL</b>					<b>Rs 30,765,884.00</b>	

**ANALYSIS OF RATE - SH 04**

**NAME OF WORK :- DPR for Construction of Retaining walls & Development of Terrace 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	<u>48.30</u>	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	<u>164.67</u>	Per CUM
	say	<u>164.65</u>	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	<u>208.02</u>	Per CUM
	Add royalty charge	17.67	Per CUM
	Add 5% corporation Charges	10.40	Per CUM
	Total	<u>236.09</u>	Per CUM
	say	<u>236.10</u>	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	<u>149.59</u>	Per CUM
	Add royalty charge	17.67	Per CUM
	Add 5% corporation Charges	7.48	Per CUM
	Total	<u>174.74</u>	Per CUM
	say	<u>174.75</u>	Per CUM
5.00	Providing and laying in situ cement concrete 1:4:8 proportion with trap/ granite/ quartzite/ gneiss metal in foundation including necessary compacting and curing including formwork if required etc. complete as directed by Engineer in charge. (3.40 Bags/ Cum).		
	Rate as per PWD DSR-2006-07, I.No-732 P.No-265	1394.00	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	<u>1510.81</u>	Per CUM
	Add royalty charge $= 17.67 * (0.94 + 0.47)$	24.91	Per CUM
	Add 5% corporation Charges	75.54	Per CUM
	Total	<u>1611.26</u>	Per CUM

say 1611.25 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 $=(149.32-84.73)$	<u>64.59</u> Per CUM
Total	155.59 Per CUM
Add royalty charge	17.67 Per CUM
Add 5% corporation Charges	<u>7.78</u> Per CUM
Total	181.04 Per CUM
say	<u>181.05</u> 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 $=(204.08-84.73)*0.45$	<u>53.71</u> Per CUM
Total	2593.84 Per CUM
Add royalty charge $=17.67*(0.90+0.45)$	23.85 Per CUM
Add 5% corporation Charges	<u>129.69</u> Per CUM
Total	2747.38 Per CUM
say	<u>2747.40</u> Per CUM

8.00 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 $=(204.08-84.73)*0.45$	<u>53.71</u> Per CUM
Total	3074.84 Per CUM
Add royalty charge $=17.67*(0.90+0.45)$	23.85 Per CUM
Add 5% corporation Charges	<u>153.74</u> Per CUM
Total	3252.43 Per CUM
say	<u>3252.45</u> Per CUM

9.00 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</u> Per CUM
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</u> Per CUM
Total	3216.73 Per CUM
say	<u>3216.75</u> Per CUM

10.00 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	2478.84 Per CUM
Add royalty charge $=17.67*(0.90+0.45)$	23.85 Per CUM
Add 5% corporation Charges	123.94 Per CUM
Total	2626.63 Per CUM
say	2626.65 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	38,232.00 Per M.T.
Add corporation charges @ 5%	1,911.60 Per M.T.
Total	40,143.60 Per M.T.
<b>Say</b>	<b>40,143.60 Per M.T.</b>

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

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

14.00 Providing coursed rubble masonry first sort of trap/ granite/ quartzite/ gneiss stones in cement mortar 1:6 in superstructure including raking out joints on the inside when plastering is to be done, watering and scaffolding.

Rate as per PWD DSR-2006-07, I.No-104 P.No-58	1120.00 Per CUM
add Lead charges 13Km =(182.68-103.66)	<u>79.02 Per CUM</u>
Total	1199.02 Per CUM
Add royalty charge	17.67 Per CUM
Add 5% corporation Charges	<u>59.95 Per CUM</u>
Total	1276.64 Per CUM
say	<u>1276.65 Per CUM</u>

15.00 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.

Rate as per PWD DSR-2006-07, I.No-152 P.No-85	156.00 Per sqm
Add 5% corporation Charges	<u>7.80 Per sqm</u>
Total	<u>163.80 Per sqm</u>

16.00 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	<u>1.40 Per SQM</u>
Total	<u>29.40 Per SQM</u>

17.00 Providing & fixing Stainless steel hand rails , blusters, post, Pergolas, railings & similar works etc. using Brush finished Stainless steel members ( Stainless Steel Grade 304 and finish no-4 ) including hold fasts, screws, nut bolts, fasteners, etc. with cutting, hoisting, fixing & argon welding etc. in position as per approved drawing and direction of Engineer in charge. ( work shall be executed through specialized agency only )

Rate as per Market Rate Analysis	553.39 Per Kg.
Add 5% corporation Charges	<u>27.67 Per Kg.</u>
Total	581.06 Per Kg.
SAY	<u>581.05 Per Kg.</u>

**DETAILS OF MEASUREMENT - SH 04**

**NAME OF WORK :- DPR for Construction of Retaining walls & Development of Terrace at left side**

**29.01.2007**

<b>I. No.</b>	<b>Item in Brief</b>	<b>No.</b>	<b>Length</b>	<b>Breadth</b>	<b>Height</b>	<b>Contents</b>	<b>unit</b>
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>Taken as Av. Level for dressing the ground for terracing</u> <u>stone wall Foundation</u> <u>=0.75+0.10+0.23+0.30=1.38M</u>						
	<b>AREA</b>						
	<b>1) Section area at --S3-S6</b>						
	for Surface Excavation	1.00	4200.00	sqm	0.50	2100.00	cum
	Stone Wall foundation ..section D	1.00	70.00	1.50	1.38	144.90	cum
	Stone Wall foundation .. section E	1.00	70.00	2.60	1.38	251.16	cum
	<b>2) Section area at --S7-S9</b>					0.00	
	for Surface Excavation	1.00	1540.00	sqm	0.50	770.00	cum
	Stone Wall foundation ..section D	1.00	60.00	1.50	1.38	124.20	cum
	<b>3) Section area at --S11-S14</b>					0.00	
	for Surface Excavation	1.00	6037.00	sqm	1.00	6037.00	cum
	RCC Wall foundation .. section F =1.0+0.1+0.23+0.3 =1.63m	1.00	115.00	1.70	1.63	318.67	cum
	RCC Wall foundation .. section F	1.00	115.00	1.70	1.63	318.67	cum
	RCC Wall foundation .. section F	1.00	130.00	1.70	1.63	360.23	cum
	RCC Wall foundation .. section F	1.00	130.00	1.70	1.63	360.23	cum
	<b>4) Section area at --S18-S21</b>					0.00	
	for Surface Excavation	1.00	4954.00	sqm	1.50	7431.00	cum
	RCC Wall foundation .. section F	1.00	180.00	1.70	1.63	498.78	cum
	RCC Wall foundation .. section F	1.00	195.00	1.70	1.63	540.35	cum
	RCC Wall foundation .. section F	1.00	195.00	1.70	1.63	540.35	cum
	RCC Wall foundation .. section F	1.00	200.00	1.70	1.63	554.20	cum
	RCC Wall foundation .. section F	1.00	200.00	1.70	1.63	554.20	cum
	for stair steps	9.00	5.00	2.00	1.63	146.70	cum
	<b>5) Section area at --S25</b>						
	for Surface Excavation	1.00	110.00	sqm	1.00	110.00	cum
	RCC Wall foundation .. section F	3.00	21.00	1.70	1.63	174.57	cum
	RCC Wall foundation .. section F	3.00	33.00	1.70	1.63	274.33	cum
	<b>6) Section area at --S28-S29</b>					0.00	
	for Surface Excavation	1.00	1580.00	sqm	4.50	7110.00	cum
	RCC Wall foundation .. section G	2.00	60.00	2.30	1.63	449.88	cum
	RCC Wall foundation .. section G	3.00	62.00	2.30	1.63	697.31	cum
	<b>7) Section area at --S29-S32</b>					0.00	
	for Surface Excavation	1.00	3387.00	sqm	3.50	11854.50	cum
	Stone Wall foundation .. section E	1.00	100.00	2.60	1.38	358.80	cum
	Stone Wall foundation ..section D	5.00	100.00	1.70	1.38	1173.00	cum
	for stair steps	3.00	5.00	2.00	1.38	41.40	cum
	<b>8) Section area at --S33-S38</b>					0.00	
	for Surface Excavation	1.00	3720.00	sqm	2.50	9300.00	cum
	Stone Wall foundation .. section E	2.00	150.00	2.60	1.63	1271.40	cum
	Stone Wall foundation ..section D	3.00	150.00	1.50	1.63	1100.25	cum

I. No.	Item in Brief	No.	Length	Breadth	Height	Contents	unit
	<b>9) Section area at --S39-S41</b>						
	for Surface Excavation	1.00	2400.00	sqm	2.50	6000.00	cum
	Stone Wall foundation .. section E	1.00	70.00	2.60	1.38	251.16	cum
	Stone Wall foundation ..section D	1.00	70.00	1.50	1.38	144.90	cum
	<b>10) Section area at --S44-S45</b>					0.00	
	for Surface Excavation	1.00	870.00	sqm	0.50	435.00	cum
	Stone Wall foundation ..section D	1.00	60.00	1.50	1.38	124.20	cum
	Stone Wall foundation ..section D	1.00	50.00	1.50	1.38	103.50	cum
	<b>11) Section area at --S46-S50</b>					0.00	
	for Surface Excavation	1.00	2883.00	sqm	1.50	4324.50	cum
	Stone Wall foundation .. section E	1.00	110.00	2.60	1.38	394.68	cum
	Stone Wall foundation ..section D	1.00	110.00	1.50	1.38	227.70	cum
	Stone Wall foundation .. section E	1.00	42.00	2.60	1.38	150.70	cum
	Stone Wall foundation ..section D	1.00	42.00	1.50	1.38	86.94	cum
	add provisional qutty					200.00	cum
						<b>TOTAL</b>	67409.34 cum
						<b>SAY</b>	<b>67409.00</b> cum
2.00	Providing and filling in the foundation with sand of approved quality including compaction complete.						
	<b>1) Section area at --S3-S6</b>						
	Stone Wall foundation ..section D	1.00	70.00	1.50	0.30	31.50	cum
	Stone Wall foundation .. section E	1.00	70.00	2.60	0.30	54.60	cum
	<b>2) Section area at --S7-S9</b>						
	Stone Wall foundation ..section D	1.00	60.00	1.50	0.30	27.00	cum
	<b>3) Section area at --S11-S14</b>						
	RCC Wall foundation .. section F =1.0+0.1+0.23+0.3 =1.63m	1.00	115.00	1.70	0.30	58.65	cum
	RCC Wall foundation .. section F	1.00	115.00	1.70	0.30	58.65	cum
	RCC Wall foundation .. section F	1.00	130.00	1.70	0.30	66.30	cum
	RCC Wall foundation .. section F	1.00	130.00	1.70	0.30	66.30	cum
	<b>4) Section area at --S18-S21</b>						
	RCC Wall foundation .. section F	1.00	180.00	1.70	0.30	91.80	cum
	RCC Wall foundation .. section F	1.00	195.00	1.70	0.30	99.45	cum
	RCC Wall foundation .. section F	1.00	195.00	1.70	0.30	99.45	cum
	RCC Wall foundation .. section F	1.00	200.00	1.70	0.30	102.00	cum
	RCC Wall foundation .. section F	1.00	200.00	1.70	0.30	102.00	cum
	for stair steps	9.00	5.00	2.00	0.30	27.00	cum
	<b>5) Section area at --S25</b>						
	RCC Wall foundation .. section F	3.00	21.00	1.70	0.30	32.13	cum
	RCC Wall foundation .. section F	3.00	33.00	1.70	0.30	50.49	cum
	<b>6) Section area at --S28-S29</b>						
	RCC Wall foundation .. section G	2.00	60.00	2.30	0.30	82.80	cum
	RCC Wall foundation .. section G	3.00	62.00	2.30	0.30	128.34	cum
	<b>7) Section area at --S29-S32</b>						
	Stone Wall foundation .. section E	1.00	100.00	2.60	0.30	78.00	cum
	Stone Wall foundation ..section D	5.00	100.00	1.70	0.30	255.00	cum
	for stair steps	3.00	5.00	2.00	0.30	9.00	cum
	<b>8) Section area at --S33-S38</b>						
	Stone Wall foundation .. section E	2.00	150.00	2.60	0.30	234.00	cum
	Stone Wall foundation ..section D	3.00	150.00	1.50	0.30	202.50	cum
	<b>9) Section area at --S39-S41</b>						
	Stone Wall foundation .. section E	1.00	70.00	2.60	0.30	54.60	cum
	Stone Wall foundation ..section D	1.00	70.00	1.50	0.30	31.50	cum
	<b>10) Section area at --S44-S45</b>						
	Stone Wall foundation ..section D	1.00	60.00	1.50	0.30	27.00	cum
	Stone Wall foundation ..section D	1.00	50.00	1.50	0.30	22.50	cum
	<b>11) Section area at --S46-S50</b>						

I. No.	Item in Brief	No.	Length	Breadth	Height	Contents	unit
	Stone Wall foundation .. section E	1.00	110.00	2.60	0.30	85.80	cum
	Stone Wall foundation ..section D	1.00	110.00	1.50	0.30	49.50	cum
	Stone Wall foundation .. section E	1.00	42.00	2.60	0.30	32.76	cum
	Stone Wall foundation ..section D	1.00	42.00	1.50	0.30	18.90	cum
	add provisional qutty					10.00	cum
						<b>TOTAL</b>	<b>2289.52</b> cum
						<b>SAY</b>	<b>2290.00</b> cum

3.00 Providing dry trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm. to 20 cm. thick including hand packing and compacting complete

**1) Section area at --S3-S6**

	Stone Wall foundation ..section D	1.00	70.00	1.50	0.23	24.15	cum
	Stone Wall foundation .. section E	1.00	70.00	2.60	0.23	41.86	cum

**2) Section area at --S7-S9**

	Stone Wall foundation ..section D	1.00	60.00	1.50	0.23	20.70	cum
--	-----------------------------------	------	-------	------	------	-------	-----

**3) Section area at --S11-S14**

	RCC Wall foundation .. section F =1.0+0.1+0.23+0.3 =1.63m	1.00	115.00	1.70	0.23	44.97	cum
	RCC Wall foundation .. section F	1.00	115.00	1.70	0.23	44.97	cum
	RCC Wall foundation .. section F	1.00	130.00	1.70	0.23	50.83	cum
	RCC Wall foundation .. section F	1.00	130.00	1.70	0.23	50.83	cum

**4) Section area at --S18-S21**

	RCC Wall foundation .. section F	1.00	180.00	1.70	0.23	70.38	cum
	RCC Wall foundation .. section F	1.00	195.00	1.70	0.23	76.25	cum
	RCC Wall foundation .. section F	1.00	195.00	1.70	0.23	76.25	cum
	RCC Wall foundation .. section F	1.00	200.00	1.70	0.23	78.20	cum
	RCC Wall foundation .. section F	1.00	200.00	1.70	0.23	78.20	cum
	for stair steps	9.00	5.00	2.00	0.23	20.70	cum

**5) Section area at --S25**

	RCC Wall foundation .. section F	3.00	21.00	1.70	0.23	24.63	cum
	RCC Wall foundation .. section F	3.00	33.00	1.70	0.23	38.71	cum

**6) Section area at --S28-S29**

	RCC Wall foundation .. section G	2.00	60.00	2.30	0.23	63.48	cum
	RCC Wall foundation .. section G	3.00	62.00	2.30	0.23	98.39	cum

**7) Section area at --S29-S32**

	Stone Wall foundation .. section E	1.00	100.00	2.60	0.23	59.80	cum
	Stone Wall foundation ..section D	5.00	100.00	1.70	0.23	195.50	cum
	for stair steps	3.00	5.00	2.00	0.23	6.90	cum

**8) Section area at --S33-S38**

	Stone Wall foundation .. section E	2.00	150.00	2.60	0.23	179.40	cum
	Stone Wall foundation ..section D	3.00	150.00	1.50	0.23	155.25	cum

**9) Section area at --S39-S41**

	Stone Wall foundation .. section E	1.00	70.00	2.60	0.23	41.86	cum
	Stone Wall foundation ..section D	1.00	70.00	1.50	0.23	24.15	cum

**10) Section area at --S44-S45**

	Stone Wall foundation ..section D	1.00	60.00	1.50	0.23	20.70	cum
	Stone Wall foundation ..section D	1.00	50.00	1.50	0.23	17.25	cum

**11) Section area at --S46-S50**

	Stone Wall foundation .. section E	1.00	110.00	2.60	0.23	65.78	cum
	Stone Wall foundation ..section D	1.00	110.00	1.50	0.23	37.95	cum
	Stone Wall foundation .. section E	1.00	42.00	2.60	0.23	25.12	cum
	Stone Wall foundation ..section D	1.00	42.00	1.50	0.23	14.49	cum
	add provisional qutty					10.00	cum

**TOTAL** 1757.63 cum  
**SAY** **1758.00** cum

I. No.	Item in Brief	No.	Length	Breadth	Height	Contents	unit
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>1) Section area at --S3-S6</u>						
	Stone Wall foundation ..section D	1.00	70.00	1.50	0.15	15.75 cum	
	Stone Wall foundation .. section E	1.00	70.00	2.60	0.15	27.30 cum	
	<u>2) Section area at --S7-S9</u>						
	Stone Wall foundation ..section D	1.00	60.00	1.50	0.15	13.50 cum	
	<u>3) Section area at --S11-S14</u>						
	RCC Wall foundation .. section F =1.0+0.1+0.23+0.3 =1.63m	1.00	115.00	1.70	0.15	29.33 cum	
	RCC Wall foundation .. section F	1.00	115.00	1.70	0.15	29.33 cum	
	RCC Wall foundation .. section F	1.00	130.00	1.70	0.15	33.15 cum	
	RCC Wall foundation .. section F	1.00	130.00	1.70	0.15	33.15 cum	
	<u>4) Section area at --S18-S21</u>						
	RCC Wall foundation .. section F	1.00	180.00	1.70	0.15	45.90 cum	
	RCC Wall foundation .. section F	1.00	195.00	1.70	0.15	49.73 cum	
	RCC Wall foundation .. section F	1.00	195.00	1.70	0.15	49.73 cum	
	RCC Wall foundation .. section F	1.00	200.00	1.70	0.15	51.00 cum	
	RCC Wall foundation .. section F	1.00	200.00	1.70	0.15	51.00 cum	
	for stair steps	9.00	5.00	2.00	0.15	13.50 cum	
	<u>5) Section area at --S25</u>						
	RCC Wall foundation .. section F	3.00	21.00	1.70	0.15	16.07 cum	
	RCC Wall foundation .. section F	3.00	33.00	1.70	0.15	25.25 cum	
	<u>6) Section area at --S28-S29</u>						
	RCC Wall foundation .. section G	2.00	60.00	2.30	0.15	41.40 cum	
	RCC Wall foundation .. section G	3.00	62.00	2.30	0.15	64.17 cum	
	<u>7) Section area at --S29-S32</u>						
	Stone Wall foundation .. section E	1.00	100.00	2.60	0.15	39.00 cum	
	Stone Wall foundation ..section D	5.00	100.00	1.70	0.15	127.50 cum	
	for stair steps	3.00	5.00	2.00	0.15	4.50 cum	
	<u>8) Section area at --S33-S38</u>						
	Stone Wall foundation .. section E	2.00	150.00	2.60	0.15	117.00 cum	
	Stone Wall foundation ..section D	3.00	150.00	1.50	0.15	101.25 cum	
	<u>9) Section area at --S39-S41</u>						
	Stone Wall foundation .. section E	1.00	70.00	2.60	0.15	27.30 cum	
	Stone Wall foundation ..section D	1.00	70.00	1.50	0.15	15.75 cum	
	<u>10) Section area at --S44-S45</u>						
	Stone Wall foundation ..section D	1.00	60.00	1.50	0.15	13.50 cum	
	Stone Wall foundation ..section D	1.00	50.00	1.50	0.15	11.25 cum	
	<u>11) Section area at --S46-S50</u>						
	Stone Wall foundation .. section E	1.00	110.00	2.60	0.15	42.90 cum	
	Stone Wall foundation ..section D	1.00	110.00	1.50	0.15	24.75 cum	
	Stone Wall foundation .. section E	1.00	42.00	2.60	0.15	16.38 cum	
	Stone Wall foundation ..section D	1.00	42.00	1.50	0.15	9.45 cum	
	add provisional qutty					10.00 cum	
						<b>TOTAL</b>	<b>1149.76 cum</b>
						<b>SAY</b>	<b>1150.00 cum</b>

5.00 Providing and laying in situ cement concrete 1:5:10 proportion with trap/ granite/ quartzite/ gneiss metal in foundation including necessary compacting and curing including formwork if required etc. complete as directed by Engineer in charge. (3.40 Bags/ Cum).

1) Section area at --S3-S6

I. No.	Item in Brief	No.	Length	Breadth	Height	Contents	unit
	Stone Wall foundation ..section D	1.00	70.00	1.50	0.10	10.50	cum
	Stone Wall foundation .. section E	1.00	70.00	2.60	0.10	18.20	cum
	<b>2) Section area at --S7-S9</b>						
	Stone Wall foundation ..section D	1.00	60.00	1.50	0.10	9.00	cum
	<b>3) Section area at --S11-S14</b>						
	RCC Wall foundation .. section F =1.0+0.1+0.23+0.3 =1.63m	1.00	115.00	1.70	0.10	19.55	cum
	RCC Wall foundation .. section F	1.00	115.00	1.70	0.10	19.55	cum
	RCC Wall foundation .. section F	1.00	130.00	1.70	0.10	22.10	cum
	RCC Wall foundation .. section F	1.00	130.00	1.70	0.10	22.10	cum
	<b>4) Section area at --S18-S21</b>						
	RCC Wall foundation .. section F	1.00	180.00	1.70	0.10	30.60	cum
	RCC Wall foundation .. section F	1.00	195.00	1.70	0.10	33.15	cum
	RCC Wall foundation .. section F	1.00	195.00	1.70	0.10	33.15	cum
	RCC Wall foundation .. section F	1.00	200.00	1.70	0.10	34.00	cum
	RCC Wall foundation .. section F for stair steps	9.00	5.00	2.00	0.10	9.00	cum
	<b>5) Section area at --S25</b>						
	RCC Wall foundation .. section F	3.00	21.00	1.70	0.10	10.71	cum
	RCC Wall foundation .. section F	3.00	33.00	1.70	0.10	16.83	cum
	<b>6) Section area at --S28-S29</b>						
	RCC Wall foundation .. section G	2.00	60.00	2.30	0.10	27.60	cum
	RCC Wall foundation .. section G	3.00	62.00	2.30	0.10	42.78	cum
	<b>7) Section area at --S29-S32</b>						
	Stone Wall foundation .. section E	1.00	100.00	2.60	0.10	26.00	cum
	Stone Wall foundation ..section D for stair steps	5.00	100.00	1.70	0.10	85.00	cum
		3.00	5.00	2.00	0.10	3.00	cum
	<b>8) Section area at --S33-S38</b>						
	Stone Wall foundation .. section E	2.00	150.00	2.60	0.10	78.00	cum
	Stone Wall foundation ..section D	3.00	150.00	1.50	0.10	67.50	cum
	<b>9) Section area at --S39-S41</b>						
	Stone Wall foundation .. section E	1.00	70.00	2.60	0.10	18.20	cum
	Stone Wall foundation ..section D	1.00	70.00	1.50	0.10	10.50	cum
	<b>10) Section area at --S44-S45</b>						
	Stone Wall foundation ..section D	1.00	60.00	1.50	0.10	9.00	cum
	Stone Wall foundation ..section D	1.00	50.00	1.50	0.10	7.50	cum
	<b>11) Section area at --S46-S50</b>						
	Stone Wall foundation .. section E	1.00	110.00	2.60	0.10	28.60	cum
	Stone Wall foundation ..section D	1.00	110.00	1.50	0.10	16.50	cum
	Stone Wall foundation .. section E	1.00	42.00	2.60	0.10	10.92	cum
	Stone Wall foundation ..section D add provisional qutty	1.00	42.00	1.50	0.10	6.30	cum
						10.00	cum
						<b>TOTAL</b>	<b>769.84</b> cum
						<b>SAY</b>	<b>770.00</b> 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.

Total back filling in foundation 33% of item no-1  
add provisional qutty

0.33	67409.34	22245.08	cum
		10.00	cum
		<b>TOTAL</b>	<b>22255.08</b> cum
		<b>SAY</b>	<b>22255.00</b> cum

I. No.	Item in Brief	No.	Length	Breadth	Height	Contents	unit
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>For wall foundation</u>						
	<u>3) Section area at --S11-S14</u>						
	RCC Wall foundation .. section F =1.0+0.1+0.23+0.3 =1.63m	1.00	115.00	1.50	0.20	34.50	cum
	RCC Wall foundation .. section F	1.00	115.00	1.50	0.20	34.50	cum
	RCC Wall foundation .. section F	1.00	130.00	1.50	0.20	39.00	cum
	RCC Wall foundation .. section F	1.00	130.00	1.50	0.20	39.00	cum
	<u>4) Section area at --S18-S21</u>						
	RCC Wall foundation .. section F	1.00	180.00	1.50	0.20	54.00	cum
	RCC Wall foundation .. section F	1.00	195.00	1.50	0.20	58.50	cum
	RCC Wall foundation .. section F	1.00	195.00	1.50	0.20	58.50	cum
	RCC Wall foundation .. section F	1.00	200.00	1.50	0.20	60.00	cum
	RCC Wall foundation .. section F	1.00	200.00	1.50	0.20	60.00	cum
	for stair steps	9.00	5.00	2.00	0.10	9.00	cum
	<u>5) Section area at --S25</u>						
	RCC Wall foundation .. section F	3.00	21.00	1.50	0.20	18.90	cum
	RCC Wall foundation .. section F	3.00	33.00	1.50	0.20	29.70	cum
	<u>6) Section area at --S28-S29</u>						
	RCC Wall foundation .. section G	2.00	60.00	2.10	0.30	75.60	cum
	RCC Wall foundation .. section G	3.00	62.00	2.10	0.30	117.18	cum
	add provisional qutty					10.00	cum
						<b>TOTAL</b>	<b>698.38</b> cum
						<b>SAY</b>	<b>698.00</b> cum

8.00 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.)

	<u>For wall</u>						<u>Avg. Ht.</u>
	<u>3) Section area at --S11-S14</u>						
	RCC Wall foundation .. section F =1.0+0.1+0.23+0.3 =1.63m	1.00	115.00	0.20	1.50	34.50	cum
	RCC Wall foundation .. section F	1.00	115.00	0.20	1.50	34.50	cum
	RCC Wall foundation .. section F	1.00	130.00	0.20	1.50	39.00	cum
	RCC Wall foundation .. section F	1.00	130.00	0.20	1.50	39.00	cum
	<u>4) Section area at --S18-S21</u>						
	RCC Wall foundation .. section F	1.00	180.00	0.20	1.50	54.00	cum
	RCC Wall foundation .. section F	1.00	195.00	0.20	1.50	58.50	cum
	RCC Wall foundation .. section F	1.00	195.00	0.20	1.50	58.50	cum
	RCC Wall foundation .. section F	1.00	200.00	0.20	1.50	60.00	cum
	RCC Wall foundation .. section F	1.00	200.00	0.20	1.50	60.00	cum
	for stair steps	9.00	5.00	0.20	1.50	13.50	cum
	<u>5) Section area at --S25</u>						
	RCC Wall foundation .. section F	3.00	21.00	0.20	1.50	18.90	cum
	RCC Wall foundation .. section F	3.00	33.00	0.20	1.50	29.70	cum

I. No.	Item in Brief	No.	Length	Breadth	Height	Contents	unit
	<u>6) Section area at --S28-S29</u>						
	RCC Wall foundation .. section G	2.00	60.00	0.30	2.50	90.00	cum
	RCC Wall foundation .. section G	3.00	62.00	0.30	2.50	139.50	cum
	add provisional qutty					10.00	cum
						TOTAL	739.60 cum
						<b>SAY</b>	<b>740.00</b> cum
9.00	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.)						
	<u>4) Section area at --S18-S21</u>						
	for stair slab	9.00	5.00	2.00	0.20	18.00	cum
						TOTAL	18.00 cum
						<b>SAY</b>	<b>18.00</b> cum
10.00	Providing and casting in situ cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for <b>steps</b> including centering, form work, compacting, finishing the exposed faces with ...						
	<u>4) Section area at --S18-S21</u>						
	for stair steps =9*12*0.50	54.00	2.00	0.15	0.30	4.86	cum
						TOTAL	4.86 cum
						<b>SAY</b>	<b>5.00</b> 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- 7 foundation and footings	698.38	@	80.00 Kg/m		55870.40	Kg
	l/no- 8 walls	739.60	@	90.00 Kg/m		66564.00	Kg
	l/no- 9 slab	18.00	@	90.00 Kg/m		1620.00	Kg
	l/no- 10 steps	4.86	@	90.00 Kg/m		437.40	Kg
						TOTAL	124491.80 Kg
						<b>SAY</b>	<b>124.49</b> 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>for foundation &amp; Plinth</u>						
	<u>For bottom traingular portion</u>						
	<u>1) Section area at --S3-S6</u>						
	Stone Wall foundation ..section D=0.5*1	0.50	70.00	1.50	0.60	31.50	cum
	Stone Wall foundation .. section E=0.5*1	0.50	70.00	2.60	0.60	54.60	cum
	<u>2) Section area at --S7-S9</u>						
	Stone Wall foundation ..section D=0.5*1	0.50	60.00	1.50	0.60	27.00	cum

I. No.	Item in Brief	No.	Length	Breadth	Height	Contents	unit
	<b>7) Section area at --S29-S32</b>						
	Stone Wall foundation .. section E=0.5*1	0.50	100.00	2.60	0.60	78.00	cum
	Stone Wall foundation ..section D=0.5*1	2.50	100.00	1.70	0.60	255.00	cum
	<b>4) Section area at --S18-S21</b>						
	for stair steps	1.50	5.00	2.00	0.60	9.00	cum
	<b>8) Section area at --S33-S38</b>						
	Stone Wall foundation .. section E=0.5*2	1.00	150.00	2.60	0.60	234.00	cum
	Stone Wall foundation ..section D=0.5*3	1.50	150.00	1.50	0.60	202.50	cum
	<b>9) Section area at --S39-S41</b>						
	Stone Wall foundation .. section E=0.5*1	0.50	70.00	2.60	0.60	54.60	cum
	Stone Wall foundation ..section D=0.5*1	0.50	70.00	1.50	0.60	31.50	cum
	<b>10) Section area at --S44-S45</b>						
	Stone Wall foundation ..section D=0.5*1	0.50	60.00	1.50	0.60	27.00	cum
	Stone Wall foundation ..section D=0.5*1	0.50	50.00	1.50	0.60	22.50	cum
	<b>11) Section area at --S46-S50</b>						
	Stone Wall foundation .. section E=0.5*1	0.50	110.00	2.60	0.60	85.80	cum
	Stone Wall foundation ..section D=0.5*1	0.50	110.00	1.50	0.60	49.50	cum
	Stone Wall foundation .. section E=0.5*1	0.50	42.00	2.60	0.60	32.76	cum
	Stone Wall foundation ..section D=0.5*1	0.50	42.00	1.50	0.60	18.90	cum
	add provisional qutty					10.00	cum
						TOTAL	1224.16 cum
						<b>SAY</b>	<b>1224.00</b> 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.

From G.L. to 2.50m high

**1) Section area at --S3-S6**

Stone Wall foundation ..section  
D=(1.3+0.6)/2 1.00 70.00 0.95 2.50 166.25 cum

Stone Wall foundation .. section  
E=(2.6+1.675)/2 1.00 70.00 2.14 2.50 374.06 cum

**2) Section area at --S7-S9**

Stone Wall foundation ..section  
D=(1.3+0.6)/2 1.00 60.00 0.95 2.50 142.50 cum

**7) Section area at --S29-S32**

Stone Wall foundation .. section  
E=(2.6+1.675)/2 1.00 100.00 2.14 2.50 534.38 cum

Stone Wall foundation ..section  
D=(1.3+0.6)/2 1.00 100.00 0.95 2.50 237.50 cum

**4) Section area at --S18-S21**

for stair steps 9.00 5.00 2.00 2.50 225.00 cum

**8) Section area at --S33-S38**

Stone Wall foundation .. section  
E=(2.6+1.675)/2 2.00 150.00 2.14 2.50 1603.13 cum

Stone Wall foundation ..section  
D=(1.3+0.6)/2 3.00 150.00 0.95 2.50 1068.75 cum

**9) Section area at --S39-S41**

Stone Wall foundation .. section  
E=(2.6+1.675)/2 1.00 70.00 2.14 2.50 374.06 cum

Stone Wall foundation ..section  
D=(1.3+0.6)/2 1.00 70.00 0.95 2.50 166.25 cum

**10) Section area at --S44-S45**

Stone Wall foundation ..section  
D=(1.3+0.6)/2 1.00 60.00 0.95 2.50 142.50 cum

I. No.	Item in Brief	No.	Length	Breadth	Height	Contents	unit
	Stone Wall foundation ..section D=(1.3+0.6)/2	1.00	50.00	0.95	2.50	118.75	cum
	<u>11) Section area at --S46-S50</u>						
	Stone Wall foundation .. section E=(2.6+1.675)/2	1.00	110.00	2.14	2.50	587.81	cum
	Stone Wall foundation ..section D=(1.3+0.6)/2	1.00	110.00	0.95	2.50	261.25	cum
	Stone Wall foundation .. section E=(2.6+1.675)/2	1.00	42.00	2.14	2.50	224.44	cum
	Stone Wall foundation ..section D=(1.3+0.6)/2	1.00	42.00	0.95	2.50	99.75	cum
	add provisional qutty					10.00	cum
						TOTAL	6336.38 cum
						<b>SAY</b>	<b>6336.00</b> cum
14.00	Providing coursed rubble masonry first sort of trap/ granite/ quartzite/ gneiss stones in cement mortar 1:6 in superstructure including raking out joints on the inside when plastering is to be done, watering and scaffolding. <u>From 2.50m to 5.0m high</u>						
	<u>1) Section area at --S3-S6</u>						
	Stone Wall foundation .. section E=(0.6+1.675)/2	1.00	70.00	1.14	2.50	199.06	cum
	<u>7) Section area at --S29-S32</u>						
	Stone Wall foundation .. section E=(0.6+1.675)/2	1.00	100.00	1.14	2.50	284.38	cum
	<u>8) Section area at --S33-S38</u>						
	Stone Wall foundation .. section E=(0.6+1.675)/2	2.00	150.00	1.14	2.50	853.13	cum
	<u>9) Section area at --S39-S41</u>						
	Stone Wall foundation .. section E=(0.6+1.675)/2	1.00	70.00	1.14	2.50	199.06	cum
	<u>11) Section area at --S46-S50</u>						
	Stone Wall foundation .. section E=(0.6+1.675)/2	1.00	110.00	1.14	2.50	312.81	cum
	Stone Wall foundation .. section E=(0.6+1.675)/2	1.00	42.00	1.14	2.50	119.44	cum
	add provisional qutty					10.00	cum
						TOTAL	1977.88 cum
						<b>SAY</b>	<b>1978.00</b> cum
15.00	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>4) Section area at --S18-S21</u>						
	for stair steps =9*12	108.00	2.00	0.30		64.80	sqm
	riser	108.00	2.00	0.15		32.40	sqm
						TOTAL	97.20 sqm
						<b>SAY</b>	<b>97.00</b> sqm
16.00	Providing flush grooved pointing with cement mortar 1:3 for stone masonry work including scaffolding and curing complete.						
	<u>1) Section area at --S3-S6</u>						

I. No.	Item in Brief	No.	Length	Breadth	Height	Contents	unit
	Stone Wall foundation ..section D	1.00	70.00		2.00	140.00	sqm
	Stone Wall foundation .. section E	1.00	70.00		3.50	245.00	sqm
	<u>2) Section area at --S7-S9</u>					0.00	
	Stone Wall foundation ..section D	1.00	60.00		2.00	120.00	sqm
	<u>7) Section area at --S29-S32</u>					0.00	
	Stone Wall foundation .. section E	1.00	100.00		4.00	400.00	sqm
	Stone Wall foundation ..section D	1.00	100.00		2.00	200.00	sqm
	<u>8) Section area at --S33-S38</u>					0.00	
	Stone Wall foundation .. section E	2.00	150.00		3.00	900.00	sqm
	Stone Wall foundation ..section D	3.00	150.00		2.00	900.00	sqm
	<u>9) Section area at --S39-S41</u>					0.00	
	Stone Wall foundation .. section E	1.00	70.00		3.00	210.00	sqm
	Stone Wall foundation ..section D	1.00	70.00		2.00	140.00	sqm
	<u>10) Section area at --S44-S45</u>					0.00	
	Stone Wall foundation ..section D	1.00	60.00		2.00	120.00	sqm
	Stone Wall foundation ..section D	1.00	50.00		2.00	100.00	sqm
	<u>11) Section area at --S46-S50</u>					0.00	
	Stone Wall foundation .. section E	1.00	110.00		3.00	330.00	sqm
	Stone Wall foundation ..section D	1.00	110.00		2.00	220.00	sqm
	Stone Wall foundation .. section E	1.00	42.00		3.00	126.00	sqm
	Stone Wall foundation ..section D	1.00	42.00		2.00	84.00	sqm
	add provisional qutty					20.00	sqm
	<b>TOTAL</b>					<b>4255.00</b>	<b>sqm</b>
	<b>SAY</b>					<b>4255.00</b>	<b>sqm</b>

17.00 Providing & fixing Stainless steel hand rails , blusters, post, Pergolas, railings & similar works etc. using Brush finished Stainless steel members ( Stainless Steel Grade 304 and finish no-4 ) including hold fasts, screws, nut bolts, fasteners, etc. with cutting, hoisting, fixing & argon welding etc. in position as per approved drawing and direction of Engineer in charge. ( work shall be executed through specialized agency only )

<u>For both sides railing</u>							
<u>5-Section area at --S18-S21</u>				sides			
for stair railing	9.00	6.00	2.00		108.00	m	
<u>7-Section area at --S29-S32</u>							
for stair railing	3.00	6.00	2.00		36.00	m	
					144.00	m	
	@	2.50		Kg/m			360.00 Kg
							<b>TOTAL 360.00 Kg</b>
							<b>SAY 360.00 Kg</b>

**ANALYSIS OF RATE - SH 04**

**Item No- 17 -** Providing & fixing Stainless steel hand rails , blusters, post, Pergolas, railings & similar works etc. using Brush finished Stainless steel members ( Stainless Steel Grade 304 and finish no-4 ) including hold fasts, screws, nut bolts, fasteners, etc. with cutting, hoisting, fixing & argon welding etc. in position as per approved drawing and direction of Engineer in charge. ( work shall be executed through specialized agency only )

Analysis of Rate on Market  
Details of cost for 100 Kg.

DESCRIPTION	UNIT	QTY	RATE	COST	REFERENCE
Brush finished Stainless steel members ( Stainless Steel Grade 304 and finish no-4 )	Kg	100.00	430.00	43000.00	
add WAT. 12%				5160.00	
Fitter 1st class	EACH	5.00	200.00	1000.00	
beldar for hoisting, fixing etc.	EACH	5.00	120.00	600.00	
sundries for carriage etc.	L.S.			50.00	
TOTAL	*****	*****		49810.00	
Add For water charges @ 1%	49810.00	1.00	%	498.10	
TOTAL	*****	*****		50308.10	
Add For contractor's profit & over head @10%				5030.81	
Cost for 100 Kg -TOTAL	*****	*****		55338.91	
Rate per Kg	*****	*****	<b>Rs</b>	<b>553.39</b>	

### LEAD CHART - SH 04

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