

ଓଡିଶା ସରକାର
ପଞ୍ଚାୟତିରାଜ ଓ ପାନୀୟଜଳ ବିଭାଗ
Government of Odisha
Panchayati Raj & D.W Department

ଓଡିଶା ଲୋକସେବା ଭବନ
ସଚିବାଳୟ ମାର୍ଗ, ଭୁବନେଶ୍ୱର-୭୫୧୦୦୧
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No. 162-68 PR & DW
PR-SFC-SCHEME-0001-2023

Date 27.07.2023

RESOLUTION

Sub: Guidelines on "Construction of Buildings for Vana Surakshya Samiti (VSS)" by Panchayati Raj & Drinking Water Department .

With a view to provide the **Vana Surakshya Samiti (VSS)** a common facility centre for discharging their various activities, **Government have decided that approximately 10,000 VSS buildings** shall be constructed by Panchayati Raj & Drinking Water Department in a span of 4 years.

Basic Objectives

Forest, Environment & Climate Change Department have constituted Vana Surakshya Samiti (VSS), an independent formal democratic village based institution comprising adult inhabitants of the villages. The Vana Surakshya Samitis not only look after preservation and protection of forests, but also make their community development plan, livelihood improvement plan and income generating activities simultaneously. To achieve the real purpose, the VSS require a Common Facility Centre in the village and a building for them is utmost essential for conducting meetings, taking decisions, undertaking Income generating activities, organising health camps, etc.

With a view to have more participation of local people with guidance of the PRIs, the Government have decided that the construction activities of the VSS buildings is to be taken up by the PR&DW Deptt. instead of the present system of execution by Forest, Environment and Climate Change Department . For better and speedy execution, the Panchayat Samiti will have leading role and the execution of the VSS buildings shall be assigned to Panchayat Samiti .

Construction of VSS Building:

- Based on the information received from Forest, Environment and Climate Change Department, about 10,000 buildings are to be constructed by PR & DW Department within a span of 4 years. The numbers of projects to be taken up year-wise is as follows :

2023-24	2024-25	2025-26	2026-27
2941	2355	2352	2352

- Budget provision to the tune of Rs.250.00 crore has been placed with PR & DW Department for the FY 2023-24 for Construction of VSS Buildings.

Mode of Execution :

- The list of VSS buildings to be taken up by PR&DW Deptt. shall be shared by FE&CC Deptt. . These list shall be approved by the Govt. in PR&DW Deptt. and communicated to the Districts to be executed by the Blocks as per model plan and estimate (copy enclosed).
- Selection of site shall be done by the concerned Divisional Forest Officer in consultation with the local Tahasildar and intimated to the BDOs.
- As per model plan and estimate, the Unit cost of the VSS Buildings comes to Rs. 8.50 lakh.
- Construction of VSS buildings will be taken up by the Panchayat Samitis under their jurisdiction and accordingly, funds will be released to the P.L account of concerned Panchayat Samiti to take up the work and complete it within a scheduled time i.e. within six months from the date of issue of work order.
- The Panchayat Samiti shall execute the work Departmentally as per the guidelines issued vide Resolution No. 13220, Dtd. 13.07.2018 of PR & DW Dept. by observing due procedure .
- After construction of the VSS building, these are to be handed over to the concerned Divisional Forest Officer for use by the Vana Surakshya Samiti concerned.

- Future repair and maintenance of the buildings shall be taken up by the concerned VSS under the supervision of Forest, Environment & Climate Change Department.
- For Geo-tagging of VSS Buildings, the OPAMS portal of ORSAC used by the State Government for mapping and geo-tagging of the Govt. assets shall be used for the Scheme "Construction of Vana Surakshya Samiti Buildings".

Monitoring and Supervision

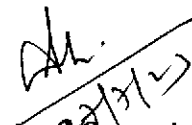
- The Block Development Officer shall supervise and monitor the progress of works taken up within the jurisdiction of Block and submit the status of monthly report to the CDO-cum-EO and also to the DFO concerned in the 1st week of every month.
- The CDO-cum-EO, ZillaParishad shall be in charge of overall monitoring and supervision of the progress of work in the District in their monthly review meeting and communicate the concerned DFO regarding the status of progress of work.

Utilisation Certificate

The Block Development Officer shall submit the Utilisation Certificate to the CDO-cum-EO, ZillaParishad . The CDO-cum-EO, ZillaParishad shall submit the consolidated UCs in Annexure-VI of OM No. 21241/dt.17.07.2014 of Finance Dept.,Govt. of Odisha , with the countersignature of Collector-cum-CEO, ZillaParishad to PR&DW Department .

Ordered that this Resolution be published in an extraordinary issue of the Odisha Gazette .

By Order of the Governor


Principal Secretary to Govt.

Memo No. 16269 / PR & DW,

Date: 27.07.2023

Copy forwarded to PS to Hon'ble Chief Minister Odisha for kind information of Hon'ble Chief Minister/ PS to Hon'ble Minister, Panchayati Raj & Drinking Water, Odisha for kind information of Hon'ble Minister, Panchayati Raj & Drinking Water / OSD to Chief Secretary, Odisha for kind information of Chief Secretary / PS to Development Commissioner-cum-ACS for kind information of Development Commissioner-cum-ACS/ PPS/PS to all Principal Secretaries /Commissioner-cum-Secretaries of all Departments / PS to all Directors, PR & DW Department/ Director, SIRD, Bhubaneswar/ All Officers of PR & DW Department/ A.G (A & E), Odisha/ All RDCs/PCCF, Odisha, Bhubaneswar/ All Collector-cum-CEOs/ All CDO-cum-EOs for kind information and necessary action.


27.07.2023
Joint Secretary to Government

Memo No. 16270 / PR & DW,

Date: 27.07.2023

Copy forwarded to the Gazette Cell, Commerce & Transport (Commerce) Department/ Director, Printing, Stationary and Publication, Odisha, Cuttack with a request to publish this resolution in the extra-ordinary issue of Odisha Gazette and supply 100 copies to this Department for official issue.


27.07.2023
Joint Secretary to Government

Memo No. 16271 / PR & DW,

Date: 27.07.2023

Copy of the Resolution forwarded to all BDOs/ all DPOs/ all Sections of PR & DW Departments/ Guard file for information and necessary action.


27.07.2023
Joint Secretary to Government

REPORT :

Name of the work : DETAILED MODEL ESTIMATE FOR CONSTRUCTION OF
VAN SURAKHYA SAMITI (VSS) BUILDING

Estimated Cost : Rs. 8,50,000/- (Rupees eight lakh fifty thousand) only.

The revise model estimate for construction of VSS Building has been prepared considering the lead of sand from 15 kms, granite product from 30 kms, flyash bricks from 25 kms, cement & rod from 5 kms distance.

The revise estimate for construction of VSS Building consists of one Meeting Hall having dimension of 18'5"x11'2", one Office Room of 12'0"x7'7" and one Toilet of 5'0"x7'7"

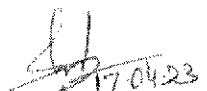
This is a framed structure building and the following provisions are made in the estimate.

1. Foundation excavation in hard soil including levelling and dressing the bed, etc.
2. Sand Filling in Plinth, etc.
3. P.C.C. (1:3:6) in foundation and flooring base, etc.
4. Fly Ash Brick masonry in C.M. (1:6) in Foundation & Plinth, etc.
5. Fly Ash Brick masonry in C.M. (1:6) in Superstructure, etc.
6. Fly Ash Brick masonry in C.M. (1:4) in Superstructure, etc.
7. R.C.C. M-20 in Column Beam, Lintel, Chaja & Roof Slab, etc.
8. Supplying, fitting and placing uncoated HYSD bar reinforcement, etc.
9. 25 mm thick grading concrete in C.C. (1:2:2) on roof slab, etc.
10. 6mm thick Cement plaster with (1:4) cement mortar in ceiling area, etc.
11. 16mm thick Cement plaster with (1:6) cement mortar in inside area, etc.
12. 12mm thick Cement plaster with (1:6) cement mortar in outside area, etc.
13. Providing and fixing MS Grill in window & door including cost, conveyance and all labour charges, etc.
14. 2.5cm artificial stone flooring with cement concrete (1:2:4) including punning using 12mm size hand broken granites chips, etc. complete.
15. 12mm thick cement plaster (1:4) over brick work with cement punning for skirting, etc. complete.
16. Water bound cement priming one coat with cost of all labour & materials, etc.
17. Two coats of distemper of approved shade including cost of paint to inside walls, etc.
18. Two coats of weather coat paint of approved shade including cost of paint to outside walls, etc.
19. Two coats of synthetic enamel paint over a coat of primer in doors & windows, etc.
20. Supplying, fitting and fixing of Stainless steel of 304 grade in hand railing using 50mm dia of 2mm thick

The estimate consists of Civil work usual Labour Cess @ 1 % and provision for work contingencies @ 1% , Electrical Installation work @ 5% and P.H. & Water Supply @ 10% have been included in the estimate.

The estimate has been provided basing on C.S.R.-2017 with of upto date rate of Cement, Steel and new labour rate 2023 have been taken in to consideration.

The detailed standard specification will be followed during execution of work.


17/04/23
Assistant Engineer
PR & DW Deptt.


17/04/23
Superintending Engineer
PR & DW Deptt.

DETAILED MODEL ESTIMATE FOR VAN SURAKHYA SAMITI (VSS) BUILDING

Estimated Cost = Rs. 8,50,000.00

Sl.No.	Items	No.	L	B	H	Quantity	Amount in Rs.
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1. Foundation excavation in hard soil including levelling and dressing the bed and sides depositing earth within initial lead and lift etc. complete.

Column	9 x	4' - 00" x	4' - 00" x	4' - 00" =	576.00 cft.
Walls	1 x	88' - 09" x	2' - 06" x	2' - 06" =	554.69 cft.
Steps	1 x	10' - 00" x	3' - 09" x	1' - 00" =	37.50 cft.
Deduction for Column	-9 x	1' - 06" x	1' - 06" x	2' - 06" =	-50.63 cft.

Total = 1117.56 cft.

or say 31.63 cum.@ 179.80 /cum. = Rs. 5,687.00

2. Filling foundation and plinth with sand well watered and rammed including cost, conveyance and royalty of sand etc. complete.

Column	9 x	4' - 00" x	4' - 00" x	0' - 06" =	72.00 cft.
Walls	1 x	88' - 09" x	2' - 06" x	0' - 06" =	110.94 cft.
Plinth(Meeting Hall) -	1 x	18' - 05" x	11' - 02" x	2' - 00" =	411.33 cft.
Plinth(Office) -	1 x	13' - 00" x	7' - 07" x	2' - 00" =	197.16 cft.
Plinth(Toilet) -	1 x	5' - 00" x	7' - 07" x	2' - 00" =	75.83 cft.
Steps	1 x	10' - 00" x	3' - 09" x	0' - 06" =	18.75 cft.
Deduction for Column	-9 x	1' - 06" x	1' - 06" x	0' - 06" =	-10.13 cft.

Total = 875.88 cft.

or say 24.79 cum.@ 361.21 /cum. = Rs. 8,953.00

3. Cement concrete 1:3:6 using 4cm. size HBG (hand broken metal) including cost, conveyance and royalty of materials curing etc. complete.

Column	9 x	4' - 00" x	4' - 00" x	0' - 06" =	72.00 cft.
Walls	1 x	88' - 09" x	2' - 06" x	0' - 06" =	110.94 cft.
Plinth(Meeting Hall) -	1 x	18' - 05" x	11' - 02" x	0' - 04" =	68.49 cft.
Plinth(Office) -	1 x	13' - 00" x	7' - 07" x	0' - 04" =	32.83 cft.
Plinth(Toilet) -	1 x	5' - 00" x	7' - 07" x	0' - 04" =	12.63 cft.
Steps	1 x	10' - 00" x	3' - 09" x	0' - 04" =	12.49 cft.
Deduction for Column	-9 x	1' - 06" x	1' - 06" x	0' - 06" =	-10.13 cft.

Total = 299.25 cft.

or say 8.47 cum.@ 4497.59 /cum. = Rs. 38,090.00

4. First Class Flyash Brick masonry in C.M. (1:6) in foundation & plinth including cost, conveyance and royalty of materials curing etc. complete.

1st Footing	1 x	88' - 09" x	1' - 08" x	0' - 07" =	86.25 cft.
2nd Footing	1 x	88' - 09" x	1' - 03" x	0' - 07" =	64.68 cft.
Plinth	1 x	88' - 09" x	0' - 10" x	1' - 00" =	73.93 cft.
Steps	1 x	10' - 00" x	3' - 06" x	0' - 09" =	26.25 cft.
	1 x	10' - 00" x	2' - 06" x	0' - 06" =	12.50 cft.
	1 x	10' - 00" x	1' - 03" x	0' - 06" =	6.25 cft.

Total = 263.61 cft.

or say 7.46 cum.@ 3962.11 /cum. = Rs. 29,557.00

5. R.C.C. work M-20 grade using 20mm. and down grade HBG (crusher broken chips) including hoisting, laying, cost, conveyance and royalty of materials curing etc. complete.

a) Column Base -	9 x	4' - 00" x	4' - 00" x	1' - 00" =	144.00 cft.
	9 x	2' - 00" x	2' - 00" x	0' - 08" =	24.01 cft.

Total = 168.01 cft.

Sl.No.	Items	No.	L	B	H	Quantity	Amount in Rs.
5.					or say 4.755 cum.@`	4981.15 /cum. = Rs.	23,685.00
	b) Plinth Beam -	1 x	96' - 04" x	0' - 10" x	0' - 10" =	66.84 cft. Total = 66.84 cft.	
					or say 1.892 cum.@`	5297.16 /cum. = Rs.	10,022.00
	c) Column / Beam-	9 x	0' - 10" x	1' - 00" x	13' - 04" =	99.96 cft.	
		1 x	96' - 04" x	0' - 10" x	0' - 08" =	53.52 cft. Total = 153.48 cft.	
					or say 4.343 cum.@`	10236.43 /cum. = Rs.	44,457.00
	d) Lintel Bend -	1 x	88' - 09" x	0' - 10" x	0' - 06" =	36.96 cft.	
		1 x	7' - 07" x	0' - 05" x	0' - 06" =	1.58 cft. Total = 38.54 cft.	
					or say 1.091 cum.@`	8143.83 /cum. = Rs.	8,885.00
	e) Chajja -						
	Meeting Hall	2 x	24' - 01" x	2' - 00" =		96.33 sft.	
		1 x	12' - 06" x	2' - 00" =		25.00 sft.	
	W	1 x	4' - 06" x	2' - 00" =		9.00 sft.	
	V	1 x	3' - 00" x	1' - 06" =		4.50 sft. 0.764 cum. 134.83 sft.	
					or say 12.526 sqm.@`	712.48 /sqm. = Rs.	8,924.00
	f) Staircase -						
	Steps	22 x	4' - 03" x	1' - 04" x	0' - 03" =	31.16 cft.	
	Riser	3 x	4' - 03" x	0' - 06" x	0' - 03" =	1.59 cft.	
	Landing	3 x	4' - 03" x	3' - 05" x	0' - 03" =	10.89 cft. 43.64 cft.	
					or say 1.235 cum.@`	9802.91 /sqm. = Rs.	12,107.00
	g) Roof Slab -	1 x	21' - 01" x	22' - 03" x	0' - 05" =	195.61 cft. Total = 195.61 cft.	
					or say 5.536 cum.@`	8569.51 /cum. = Rs.	47,441.00
6.	Supplying,fitting and placing uncoated HYSD bar reinforcement as per drawing and technical specification including cost,conveyance and all taxes of steel and binding wire etc.complete.						
	Quantity of Item No.5	19.62 Cum	@	1.00 Qntl/Cum	=	23.54 qntl.	
			or say	23.54 Qntl	8939.50 /cum. = Rs.		2,10,424.00
7.	First Class Flyash Brick masonry in C.M. (1:6) in superstructre including cost,conveyance and royalty of materials curing etc. complete.						
	Walls	1 x	88' - 09" x	0' - 10" x	8' - 09" =	646.88 cft.	
	Parapet wall	1 x	75' - 11" x	0' - 10" x	3' - 00" =	189.72 cft.	
	D	1 x	3' - 06" x	0' - 10" x	7' - 00" =	-20.41 cft.	
	D-1	1 x	2' - 09" x	0' - 10" x	7' - 00" =	-16.04 cft.	
	GD	1 x	4' - 00" x	0' - 10" x	7' - 00" =	-23.32 cft.	
	W	3 x	5' - 00" x	0' - 10" x	4' - 06" =	-56.23 cft.	
	W-1	1 x	3' - 06" x	0' - 10" x	4' - 06" =	-13.12 cft.	
	V	1 x	2' - 00" x	0' - 10" x	2' - 00" =	-3.33 cft. Total = 704.15 cft.	
			or say	19.927 cum.@`	3995.11 /cum. = Rs.		79,611.00

Sl.No.	Items	No.	L	B	H	Quantity	Amount in Rs.
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8. First Class Flyash Brick masonry in C.M. (1:4) in superstructure including cost, conveyance and royalty of materials curing etc. complete.

Walls of 5" 1 x 7' - 07" x 0' - 05" x 9' - 07" = 30.30 cft.
Total = 30.30 cft.

or say 0.857 cum. @ 4243.63 /cum. = Rs. 3,637.00

9. 25 mm thick grading concrete in C.C. (1:2:2) on roof slab with 4.7 mm size H.G. chips including cost conveyance and royalty of materials curing etc. complete.

Slab 1 x 21' - 01" x 22' - 03" = 469.10 sft.
Steps 22 x 3' - 05" x 1' - 04" = 100.21 sft.
Riser 3 x 3' - 05" x 0' - 06" = 5.13 sft.
Landing 3 x 3' - 05" x 3' - 05" = 35.03 sft.
Steps 1 x 10' - 00" x 3' - 06" = 35.00 sft.
1 x 10' - 00" x 2' - 06" = 25.00 sft.
1 x 10' - 00" x 1' - 03" = 12.50 sft.
Total = 681.97 sft.

or say 63.355 sqm. @ 291.84 /sqm. = Rs. 18,489.00

10. 6mm. thick cement plaster in c.m. (1:4) over R.C.C. with close deep chipping including cost conveyance and royalty of materials curing etc. complete.

Meeting Hall 1 x 18' - 05" x 11' - 02" = 205.66 sft.
Office 1 x 13' - 00" x 7' - 07" = 98.58 sft.
Toilet 1 x 5' - 00" x 7' - 07" = 37.92 sft.
Steps 22 x 3' - 05" x 1' - 04" = 100.21 sft.
Riser 3 x 3' - 05" x 0' - 06" = 5.13 sft.
Landing 3 x 3' - 05" x 3' - 05" = 35.03 sft.
Total = 482.53 sft.

or say 44.827 sqm. @ 128.85 /sqm. = Rs. 5,776.00

11. 16 mm. thick cement plaster in c.m. (1:6) over Brick masonry including cost conveyance and royalty of materials curing etc. complete.

Meeting Hall 2 x (18' - 05" + 11' - 02") x 10' - 01" = 596.59 sft.
Office 2 x (13' - 00" + 7' - 07") x 10' - 01" = 415.08 sft.
Toilet 2 x (5' - 00" + 7' - 07") x 10' - 01" = 253.75 sft.
D 1 x 3' - 06" x 7' - 00" = -24.50 sft.
D-1 1 x 2' - 09" x 7' - 00" = -19.25 sft.
GD 1 x 4' - 00" x 7' - 00" = -28.00 sft.
W 3 x 5' - 00" x 4' - 06" = -67.50 sft.
W-1 1 x 3' - 06" x 4' - 06" = -15.75 sft.
V 1 x 2' - 00" x 2' - 00" = -4.00 sft.
Total = 1106.42 sft.

or say 102.786 sqm. @ 192.31 /sqm. = Rs. 19,767.00

12. 12 mm. thick cement plaster in c.m. (1:6) over Brick masonry including cost conveyance and royalty of materials curing etc. complete.

Out Side 2 x (20' - 01" + 21' - 03") x 16' - 04" = 1350.18 sft.
Total = 1350.18 sft.

or say 125.432 sqm. @ 135.29 /sqm. = Rs. 16,969.00

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Sl.No.	Items	No.	L	B	H	Quantity	Amount in Rs.
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19. or say 36.347 sqm.@ 153.74 /sqm. = Rs. 5,588.00

20. Supplying, fitting and fixing of Stainless steel of 304 grade in hand railing using 50mm dia of 2mm thick circular pipe with Balustrade of size 32mm x 32mm x 2mm @ 0.90mtr. C/C and stainless square pipe bracing of size 32mm x 32mm x 2mm in 3 rows in staircase as per approved design and specification, buffing, polishing etc with cost, conveyance, taxes of all materials, labour, T&P etc. required for the complete in all respect.

Staircase railing 1 x 35' - 08" = 35.67 ft.
35.67 ft.

or say 10.872 rmt.@ 3061.74 /sqm. = Rs. 33,288.00

21. Add any unforeseen items to be paid as per actual, etc. -

LS = Rs. 11,098.00

Sub Total = Rs. 7,31,812.00

22. Provision for electrical installation, etc. @ 5 % -

Rs. 36,591.00

23. Provision for P.H. & Water supply work, etc. @ 10 % -

Rs. 73,181.00

8,41,584.00

24. Add work contingencies @ 1 % -

Rs. 8,416.00

Total = Rs. 8,50,000.00

N.B.:-

(Rupees Eight Lakh Fifty Thousand) only.

- This is a model estimate. The estimate may be varied according to site condition & as per the requirement.
- Suitable locally available materials may be substituted if the materials adopted in the model estimate are not available.
- Rates adopted are tentative. Hence, during execution actual cost may be calculated basing on SoR.


17/04/23
Assistant Engineer
PR & DW Deptt.


13/04/23
Superintending Engineer
Panchayati Raj & Drinking Water Deptt.

Labour Statement MODEL ESTIMATE FOR VAN SURAKHYA SAMITI (VSS) BUILDING									
Sr.	Item	Quantity	Unit	Unskilled Rs345/-		Semiskilled Rs385/-		Skilled Rs435/- High Skilled Rs495/-	
No.				Qty/ unit	Total Qty	Qty/ unit	Total Qty	Qty/ unit	Total Qty
1	Excn of Foundation in hard soil	31.627	cum	0.43	14.00				
2	Sand filling in F&P	24.787	cum	0.12	3.00				
3	Cement concrete (1:3:6)	8.469	cum	3.90	33.00				
4	Flyash Brick Masonry in C.M.(1:6)	27.387	cum	2.96	81.00			0.18	2.00
5	Flyash Brick Masonry in C.M.(1:4)	0.857	cum	2.96	3.00			1.05	29.00
6	R.C.C-M-20 in R.C.C work	0.000	cum	1.33	0.00	0.06	0.00	1.05	1.00
	(Casting with Shuttering & Centring)							0.10	0.00
i)	Column base	4.755	cum	1.33	6.00				
ii)	Pilinth band	1.892	cum	1.33	3.00	0.13	1.00	0.18	1.00
iii)	Column & Beam	4.343	cum	1.33	6.00	0.31	1.00	0.35	1.00
iv)	Lintel	1.091	cum	1.33	1.00	5.26	23.00	5.30	23.00
v)	Chajja	0.764	cum	1.33	1.00	2.30	3.00	2.34	3.00
vi)	Staircase	1.235	cum	1.33	1.00	3.16	2.00	3.20	2.00
vii)	Roof slab	5.536	cum	1.33	2.00	1.50	2.00	1.54	2.00
7	Rod Cutting Bending and Binding	23.54	qtl	0.80	7.00	3.16	17.00	3.20	18.00
8	25 mm thick grading concrete in C.C. (1:2:2)	63.355	sqm	0.36	19.00	0.04	1.00		
9	6 mm C.P. in C.M. 1:4	44.827	sqm	0.17	8.00				
10	16 mm C.P. in C.M. 1:6	102.786	sqm	0.24	25.00			0.14	6.00
11	12 mm C.P. in C.M. 1:6	125.432	sqm	0.12	15.00			0.16	16.00
12	2.5cm artificial stone flooring with cement	31.787	sqm	0.36	11.00			0.14	18.00
13	12 mm C.P. in C.M. 1:4 including punning,etc.	27.343	sqm	0.11	3.00				
14	Water bound cement priming one coat, etc.	245.702	sqm	0.054	13.00			0.15	4.00
15	Two coats of distemper, etc.	120.270	sqm	0.062	7.00				
16	Two coats of weather coat paint, etc.	125.432	sqm	0.032	4.00				
17	Enamel Painting over a coat of primer, etc.	36.347	sqm	0.172	6.00				
18	Supplying, fitting and fixing of Stainless steel	10.872	rmt						
19	Miscellaneous Labour								
	Total Qty				20.00				
	Rate per Man day				314.00		50.00		126.00
	Total Amount				345.00		385.00		435.00
					108330.00		19250.00		54810.00
					Total Labour = Rs. 210110.00				27720.00

[illegible]

MATERIAL STATEMENT MODEL ESTIMATE FOR VAN SURAKHYA SAMITI (VSS) BUILDING													
Sl. No.	Item	Quantity	Unit	Sand		Cement		Metal		Chips		Flyash Bricks	
				Qty / unit	Total Qty	Qty / unit	Total Qty	Qty / unit	Total Qty	Qty / unit	Total Qty	Qty / unit	Total Qty
1	Sand filling in F&P	24.79	cum	1.00	24.79								
2	C.C. 1:3:6 with 40 mm C.B.G. Metal	8.47	cum	0.48	4.07	1.72	14.57	0.96	8.13				
3	Flyash Brick Masonry in C.M. 1:6 in Sup	27.39	cum	0.28	7.67	0.672	18.40					1.00	27.39
4	Flyash Brick Masonry in C.M. 1:4 in Sup	0.86	cum	0.28	0.24	1.00	0.86					1.00	0.86
5	RCC work in M20 with 20 mm & down graded C.B.G. Chips	0.00	cum	0.45	0.00	3.47	0.00			0.90	0.00		
	i) Column base	4.76	cum	0.45	2.14	3.47	16.52			0.90	4.28		
	ii) Plinth band	1.89	cum	0.45	0.85	3.47	6.57			0.90	1.70		
	iii) Column & Beam	4.34	cum	0.45	1.95	3.47	15.08			0.90	3.91		
	iv) Stair case	1.24	cum	0.45	0.56	3.47	4.29			0.90	1.11		
	v) Lintel	1.09	cum	0.45	0.49	3.47	3.79			0.90	0.98		
	vi) Chajja	0.76	cum	0.45	0.34	3.47	2.65			0.90	0.69		
	vii) Roof slab	5.54	cum	0.45	2.49	3.47	19.23			0.90	4.98		
6	25 mm thick grading concrete in C.C. (1:2:2) on roof slab with 4.7 mm size H.G. chips, etc.	63.36	sqm	0.0169	1.07	0.1208	7.65			0.0169	1.07		
7	6 mm C.P. in C.M. 1:4	44.83	sqm	0.0075	0.34	0.0372	1.67						
8	16 mm C.P. in C.M. 1:6	102.79	sqm	0.018	1.85	0.043	4.42						
9	12 mm C.P. in C.M. 1:6	125.43	sqm	0.015	1.88	0.0358	4.49						
10	2.5 cm thick A.S. flooring in C.C. (1:2:4) with 12 mm size HG chips	31.79	sqm	0.012	0.38	0.0858	2.73			0.023	0.73		
11	12 mm C.P. in C.M. 1:4 incl punning	27.34	sqm	0.015	0.41	0.0644	1.76						
	Total Qty				51.52		124.68		8.13		19.46		28.24
	Royalty in Rupees per Unit				35.00				130.00		130.00		bag 249
	Total Royalty				1803.12				1056.93		2529.26		0.00
													Rs 5389.31

MATERIAL SUMMARY			
Sand	51.52	cum	
Cement	249	Bags	
Metal	8.130	cum	
Chips	19.456	cum	
Flyash Bricks	9885	cum	
Rod	23.54	Qntl	

LEAD STATEMENT

(As per SR - 2017 w.e.f.01.07.2017, Vide Letter No.13827, Dt.16.09.2017 of Works Deptt. & Enhanced Labour Rate From 01.04.23 add VDA @ Rs.12.00 vide Ltr.No.2500/LC, dt.05.04.2023) (Central Zone- Puri, Khordha & Navagarh)

NAME OF THE WORK: MODEL ESTIMATE FOR CONSTRUCTION OF VAN SURAKHYA SAMITI (VSS) BUILDING

Sl. No	Name of the Materials	Location of Quarry	Unit	Lead in KM	Cost As per SR - 2014 (Post GST)	Cost of Transportation for 1st 5km	Cost of Transportation for next 45km.	Cost of Transportation for beyond 50km.	Total Cost of Transportation	Royalty w.e.f. 15.12.2016	Total (With Royalty)
1	Sand (screened and washed)	Kunda band	Cum	15	48.67	149.67	0	0	0	0	0
2	Sand for Filling from local	do	Cum	15	41.90	149.67	0	0	0	0	0
7	40 mm size Crusher B.G. Metal	Tilagarh	Cum	30	706.67	149.67	0	0	0	0	0
8	40 mm size Hand B.G. Metal	Adhamun	Cum	30	584.76	149.67	0	0	0	0	0
11	20 mm size CBG chips	Tilagarh	Cum	30	1007.62	149.67	0	0	0	0	0
12	12 mm size CBG chips	do	Cum	30	1047.62	149.67	0	0	0	0	0
13	10 mm size CBG chips	do	Cum	30	1056.67	149.67	0	0	0	0	0
14	6.7 mm size CBG chips	do	Cum	30	704.76	149.67	0	0	0	0	0
15	4.7 mm size CBG chips	do	Cum	30	638.10	149.67	0	0	0	0	0
27	Cement-43 grade	Kesinga	Qlt	5	734.00	16.17	0	0	0	0	0
28	Steel HYSD (FE-415)	do	Qlt	5	2943.00	16.17	0	0	0	0	0
33	Fly Ash Bricks 25x12x8 cm	Hansapal	1000 nos	25	3914.99	483.64	0	0	0	0	0
34	Fly Ash Bricks 23x11x8 cm	Hansapal	1000 nos	25	3787.23	386.91	0	0	0	0	0
39	Carriage of wood	Locally	1.25 cum.	5	129.38	129.38	0	0	0	0	0
41	Sal bulluhs 75mm. mean dia	do	Rmt	5	82.99	0.21	0	0	0	0	0
42	Non-sal bulluhs 75mm. mean dia of any len	do	Rmt	5	39.83	0.47	0	0	0	0	0
43	Non-sal bulluhs 100mm. mean dia of any	do	Rmt	5	51.45	0.32	0	0	0	0	0
44	Non-sal bulluhs 125mm. mean dia of any len	do	Rmt	5	58.03	0.51	0	0	0	0	0
49	Non Sal wood scantling & plants (Tender)	do	Cum	5	16298.76	129.38	0	0	0	0	0
50	Binding Wire	do	Kg	5	65.53	16.17	0	0	0	0	0
64	Red oxide Primer	do	Litre	5	96.06	0.97	0	0	0	0	0
68	Enamel paint	do	Litre	5	149.61	0.97	0	0	0	0	0
70	Cement paint	do	Kg	5	34.65	0.37	0	0	0	0	0

LABOUR STATEMENT

1.	Marmulla	345.00	/day
2.	Womannulla	345.00	/day
3.	Stone Packer	385.00	/day
4.	Semiskilled Mulla	385.00	/day
5.	Male	385.00	/day
6.	Mason 1 st	495.00	/day
7.	Mason 2 nd	435.00	/day
8.	Carp 1 st	495.00	/day

9.	Carp 2 nd	435.00	/day
10.	Painter (1 st)	495.00	/day
11.	Stone dresser	495.00	/day
12.	Helper	345.00	/day
13.	Blacksmith	495.00	/day
14.	Painter (1 st)	495.00	/day
15.	Painter (2nd)	435.00	/day
16.	Boring Mistry (Special)	495.00	/day
17.	Winch operator	495.00	/day

HIRE CHARGES OF PLANTS AND MACHINERIES

1.	Smooth wheeled Roller 8-10 ton	294.78	/hour
2.	Concrete mixer	153.91	/hour
3.	Vibrator (3HP diesel)	92.17	/hour
4.	Generator 33 KVA	208.70	/hour

Letter No. 2562, dt. 23.12.22 Office of the Z.P., Khordha including GST

Cement with GST 734.00

Cement without GST 573.44

Rod with GST 7943

Rod without GST 6731.36

17.04.23
Asst Engineer
PR & DW Deptt.

(As per SR - 2017 w.e.f.01.07.2017,Vide Letter No.13827,Dt.16.09.2017of Works Deptt. & Enhanced Labour Rate From 01.04.23 add VDA @ Rs.12.00 vide Vide Ltr.No.2500/LC,dtd.05.04.2023)(Central Zone-Puri,Khordha & Nayagarh)

NAME OF THE WORK :MODEL ESTIMATE FOR CONSTRUCTION OF VAN SURAKHYA SAMITI (VSS) BUILDING

SL.No.	Particulars	Qty./	Unit	Rate /	Unit	Amount /	Unit
1.	Foundation excavation in hard soil including levelling and dressing the bed and sides depositing muck within initial lead and lift etc. complete.						
	a)Labour -						
	Man mulia	21.50 Nos.	@ Rs.	345.00 /each =	Rs.	7,417.50	
	Woman man mulia	21.50 Nos.	@ Rs.	345.00 /each =	Rs.	7,417.50	
						Rs. 14,835.00	
	b)Add 20 % for Foundation					Rs. 2,967.00	
	c) Add Labour Cess @ 1%					Total rate/%Cum = Rs. 17,802.00 /100 Cum	
						Rs. 178.02	
						Rs. 17,980.02 /100 Cum	
						or say Rate/cum. = Rs. 179.80 /Cum	
2.	Cement concrete 1:3:6 using 4cm. size HBG metal including cost,conveyance and royalty of materials curing etc. complete.						
	A <u>Crusher broken metal (CBG)</u>						
	a)Materials -						
	CBG Metal 4cm.size	0.96 Cum	@ Rs.	706.67 /cum. =	Rs.	678.40	
	Sand(screened and washed)	0.48 Cum	@ Rs.	46.67 /cum. =	Rs.	22.40	
	Cement	2.29 Qntl.	@ Rs.	734.00 /qntl. =	Rs.	1,680.86	
						Rs. 2,381.66	
	b)Labour -						
	Mason 2 nd class	0.18 Nos.	@ Rs.	435.00 /each =	Rs.	78.30	
	Man mulia	2.50 Nos.	@ Rs.	345.00 /each =	Rs.	862.50	
	Woman man mulia	1.40 Nos.	@ Rs.	345.00 /each =	Rs.	483.00	
						Rs. 1,423.80	
	c)Transportation & Royalty -						
	CBG Metal	0.96 Cum	@ Rs.	499.67 /cum. =	Rs.	479.68	
	Sand(screened and washed)	0.48 Cum	@ Rs.	272.67 /cum. =	Rs.	130.88	
	Cement	2.29 Qntl.	@ Rs.	16.17 /qntl. =	Rs.	37.03	
						Rs. 647.60	
						Total Rate/Cum = Rs. 4,453.06	
	d) Add Labour Cess @ 1%					Rs. 44.53	
						or say Rate/cum. = Rs. 4,497.59 /Cum	
3.	Masonry work with Flyash Bricks having crushing strength between 75kg/sq.cm twith dimensional tolerance ± 8 percent in c.m. 1:6 in F & P including cost conveyance and royalty of materials curing etc. complete.						
	A <u>Foundation</u>						
	a)Materials -						
	Brick	350 Nos.	@ Rs.	3914.89 /1000 nos	Rs.	1,370.21	
	Sand(screened and washed)	0.28 Cum	@ Rs.	46.67 /cum. =	Rs.	13.07	
	Cement	0.672 Qntl.	@ Rs.	734.00 /qntl. =	Rs.	493.25	
						Rs. 1,876.53	
	b)Labour -						
	Mason 1st class @	0.35 Nos.	@ Rs.	495.00 /each =	Rs.	173.25	
	Mason 2 nd class @	1.05 Nos.	@ Rs.	435.00 /each =	Rs.	456.75	
	Man mulia @	1.55 Nos.	@ Rs.	345.00 /each =	Rs.	534.75	
	Man mulia prep. mortar	1.41 Nos.	@ Rs.	345.00 /each =	Rs.	486.45	
						Rs. 1,651.20	
	c)Transportation & Royalty -						
	Brick	350 Nos.	@ Rs.	879.84 /1000 nos	Rs.	307.94	
	Sand(screened and wasned)	0.28 Cum	@ Rs.	272.67 /cum. =	Rs.	76.35	

Cement	0.672 Qntl. @ Rs.	16.17 /qntl. =	Rs. 10.87
			Rs. 395.16

d) Add Labour Cess @ 1%

Total Rate/Cum = Rs. 3,922.88

Rs. 39.23

Rs. 3,962.11

or say Rate/cum. = Rs. 3,962.11 /Cum

B Superstructure

Rate as per F & P in Item No : 3

Add for S/S

Rs. 3,962.11

Rs. 33.00

RATE FOR

(i) Ground Floor -

Total Rate/Cum = Rs. 3,995.11

or say Rate/cum. = Rs. 3,995.11 /Cum

4. Masonry work with Flyash Bricks having crushing strength between 75kg/sq.cm twith dimensional tolerance ± 8 percent in c.m. 1:4 in F & P including cost conveyance and royalty of materials curing etc. complete.

A Foundation

a) Materials -

Brick	350 Nos. @ Rs.	3914.89 /1000 nos	Rs. 1,370.21
Sand(screened and washed)	0.28 Cum @ Rs.	46.67 /cum. =	Rs. 13.07
Cement	1.000 Qntl. @ Rs.	734.00 /qntl. =	Rs. 734.00
			Rs. 2,117.28

b) Labour -

Mason 1st class @	0.35 Nos. @ Rs.	495.00 /each =	Rs. 173.25
Mason 2 nd class @	1.05 Nos. @ Rs.	435.00 /each =	Rs. 456.75
Man mulia @	1.55 Nos. @ Rs.	345.00 /each =	Rs. 534.75
Man mulia prep. mortar	1.41 Nos. @ Rs.	345.00 /each =	Rs. 486.45
			Rs. 1,651.20

c) Transportation & Royalty -

Brick	350 Nos. @ Rs.	879.84 /1000 nos	Rs. 307.94
Sand(screened and washed)	0.28 Cum @ Rs.	272.67 /cum. =	Rs. 76.35
Cement	1.000 Qntl. @ Rs.	16.17 /qntl. =	Rs. 16.17
			Rs. 400.46

d) Add Labour Cess @ 1%

Total Rate/Cum = Rs. 4,168.94

Rs. 41.69

Rs. 4,210.63

or say Rate/cum. = Rs. 4,210.63 /Cum

B Superstructure

Rate as per F & P in Item No : 4

Add for S/S

Rs. 4,210.63

Rs. 33.00

RATE FOR

(i) Ground Floor -

Total Rate/Cum = Rs. 4,243.63

or say Rate/cum. = Rs. 4,243.63 /Cum

5. Filling foundation and plinth with sand well watered and rammed including cost, conveyance and royalty of sand etc. complete.

a) Labour -

W. man mulia	12.36 Nos. @ Rs.	345.00 /each =	Rs. 4,264.20
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b) Material -

Sand	100.00 Cum @ Rs.	41.90 /cum. =	Rs. 4,190.00
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c) Transportation & Royalty -

Sand	100.00 Cum @ Rs.	272.67 /cum. =	Rs. 27,267.00
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For 100 Cum Rs. 35,721.20

or say Rate/cum. = Rs. 357.21 /cum

Rs. 4.00

Rs. 361.21

or say Rate/sqm. = Rs. 361.21 /cum

d) Add Labour Cess @ 1%

6. R.C.C. work M-20 grade using 20mm. and down grade HBG crusher broken chips including hoisting, laying, cost, conveyance and royalty of materials curing etc. complete.
Data for 15cum.

a) Materials -

20mm.size chips	8.10 Cum @ Rs.	1007.62 /cum. =	Rs. 8,161.72
10mm.size chips	5.40 Cum @ Rs.	1066.67 /cum. =	Rs. 5,760.02
Sand(screened and washed)	6.75 Cum @ Rs.	46.67 /cum. =	Rs. 315.02
Cement	5.21 MT @ Rs.	7340.00 /MT =	Rs. 38,241.40
			Rs. 52,478.16

b) Labour -

Mate	0.86 Nos. @ Rs.	385.00 /each =	Rs. 331.10
Mason (2nd Class)	1.50 Nos. @ Rs.	435.00 /each =	Rs. 652.50
Man mulia	20.00 Nos. @ Rs.	345.00 /each =	Rs. 6,900.00
			Rs. 7,883.60

c) Machinery -

Concrete mixer(cap.0.40/0.28 cum.)	6.00 hours @ Rs.	153.91 /hour =	Rs. 923.46
Generator 33 KVA	6.00 hours @ Rs.	208.70 /hour =	Rs. 1,252.20
			Rs. 2,175.66

c) Transportation & Royalty -

20mm. & 10mm.size chips	13.50 Cum @ Rs.	499.67 /cum. =	Rs. 6,745.55
Sand(screened and washed)	6.75 Qntl. @ Rs.	272.67 /qntl. =	Rs. 1,840.52
Cement	5.21 MT @ Rs.	16.17 /Qt =	Rs. 842.56
			Rs. 9,428.63

RATE FOR

(i) Ground Floor -

e) Add Labour Cess @ 1%

Rate / cum = Rs.

Total Rate/15Cum =	Rs. 71,966.05
71,966.05 /15	Rs. 4,797.74 /cum
	Rs. 47.98
	Rs. 4,845.71
or say Rate/cum. =	Rs. 4,845.71 /Cum

7. Rigid and smooth centering and shuttering for R.C.C. works including false works and dismantling then after casting including cost of materials etc. complete.

(a) For R.C.C foundation, footing bases of column, mass concrete pre-cast slabs, plinth band etc.

Data for 10.00 Sqm

a) Materials -

25mm.thick non sal plank	0.267 Cum @ Rs.	16298.76 /cum. =	Rs. 4,351.77
80mm non sal bullah	12.6 Rmtr @ Rs.	39.83 /mtr. =	Rs. 501.86
Carriage of wood	0.3284 Cum @ Rs.	103.50 /cum. =	Rs. 33.99
Total for 10 times use		=	Rs. 4,887.62
For single use		=	Rs. 488.76

b) Labour -

Carpenter (2nd Class)	0.50 Nos. @ Rs.	435.00 /each =	Rs. 217.50
Sangi Mulia	0.50 Nos. @ Rs.	385.00 /each =	Rs. 192.50
			Rs. 410.00
			Rs. 4.10

c) Add Labour cess @ 1% on (a+b)

Total for 10.00 Sqm

Total for 10.00 Sqm =	Rs. 902.86
or say Rate/Sqm. =	Rs. 90.29 /Sqm

(b) For R.C.C plinth band etc.

Data for 10.00 Sqm

a) Materials -

25mm.thick non sal plank	0.267 Cum @ Rs.	16298.76 /cum. =	Rs. 4,351.77
80mm non sal bullah	12.6 Rmtr @ Rs.	39.83 /mtr. =	Rs. 501.86
Carriage of wood	0.3284 Cum @ Rs.	103.50 /cum. =	Rs. 33.99

Total for 10 times use		=	Rs. 4,887.62
For single use		=	Rs. 488.76
b) Labour -			
Carpenter (2nd Class)	0.50 Nos. @ Rs.	435.00 /each =	Rs. 217.50
Sangi Mulia	0.50 Nos. @ Rs.	385.00 /each =	Rs. 192.50
			Rs. 410.00
c) Add Labour cess @ 1% on (a+b)			Rs. 4.10
Total for 10.00 Sqm		Total for 10.00 Sqm =	Rs. 902.86
		or say Rate/Sqm. =	Rs. 90.29 /Sqm
(c) For RCC beams, column, girder and bresser etc.			
<u>Data for 4.20 Sqm</u>			
a) Materials -			
38mm.thick non sal plank	0.218 Cum @ Rs.	16298.76 /cum. =	Rs. 3,553.13
80 mm dia sal bullah	8.00 Rmtr @ Rs.	82.99 /mtr. =	Rs. 663.92
120 mm dia Sal bullah	15.20 Rmtr @ Rs.	82.99 /mtr. =	Rs. 1,261.45
Carriage of wood	0.456 Cum @ Rs.	103.50 /cum. =	Rs. 47.20
Total for 10 times use		=	Rs. 5,525.69
For single use		=	Rs. 552.57
b) Labour -			
Carpenter (2nd Class)	2.75 Nos. @ Rs.	435.00 /each =	Rs. 1,196.25
Semiskilled Mulia	2.75 Nos. @ Rs.	385.00 /each =	Rs. 1,058.75
			Rs. 2,255.00
c) Add Labour cess @ 1% on (a+b)			Rs. 22.55
RATE FOR		Total for 4.20 Sqm =	Rs. 2,830.12
(i) Ground Floor -		or say Rate/Sqm. =	Rs. 673.84 /Sqm
(e) For R.C.C lintels :			
<u>Data for 7.8 Sqm</u>			
a) Materials -			
38mm.thick non sal plank	0.413 Cum @ Rs.	16298.76 /cum. =	Rs. 6,731.39
120 mm non sal bullah	21.00 Rmtr @ Rs.	58.09 /mtr. =	Rs. 1,219.89
Carriage of wood	0.689 Cum @ Rs.	103.50	Rs. 71.31
Total for 10 times use		=	Rs. 8,022.59
For single use		=	Rs. 802.26
b) Labour -			
Carpenter (2 nd Class)	1.25 Nos. @ Rs.	435.00 /each =	Rs. 543.75
Semiskilled Mulia	1.25 Nos. @ Rs.	385.00 /each =	Rs. 481.25
			Rs. 1,025.00
c) Add Labour cess @ 1% on (a+b)			Rs. 10.25
RATE FOR		Total for 7.80 Sqm =	Rs. 1,837.51
(i) Ground Floor -		or say Rate/Sqm. =	Rs. 235.58 /Sqm
(f) RCC stairs excluding landing			
<u>but including railing. -</u>			
<u>Data for 5.00 Sqm</u>			
a) Materials -			
Non sal wood scantling-	0.039 Cum @ Rs.	16298.76 /cum. =	Rs. 635.65
Non sal wood 38mm.thick plank	0.228 Cum @ Rs.	16298.76 /cum. =	Rs. 3,716.12
120 mm non sal bullah-	6.5 Rmtr @ Rs.	58.09 /mtr. =	Rs. 377.59
Carriage of wood	0.35 Cum @ Rs.	103.50 /cum. =	Rs. 36.23
Total for 10 times use		=	Rs. 4,765.58
For single use		=	Rs. 476.56
b) Labour -			
Carpenter (2 ndClass)	2.75 Nos. @ Rs.	435.00 /each =	Rs. 1,196.25
Semiskilled Mulia	2.75 Nos. @ Rs.	385.00 /each =	Rs. 1,058.75
			Rs. 2,255.00
c) Add Labour cess @ 1% on (a+b)			Rs. 22.55
RATE FOR		Total for 5.00 Sqm =	Rs. 2,754.11

or say Rate/Sqm. = Rs. 550.80 /Sqm

(i)Ground Floor -
(g) Roof slab, Landing,
Balcony, Sunshades
Data for 9.00 Sqm

a) Materials -

Non sal wood scantling-	0.112 Cum @ Rs.	16298.76 /cum. =	Rs. 1,825.46
Planks 38mm.-	0.34 Cum @ Rs.	16298.76 /cum. =	Rs. 5,541.58
120 mm sal bullah-	56 Rmtr @ Rs.	58.09 /mtr. =	Rs. 3,253.04
Carriage of wood	1.142 Cum @ Rs.	103.50 /cum. =	Rs. 118.20
Total for 10 times use		=	Rs. 10,738.28
For single use		=	Rs. 1,073.83

b) Labour -

Carpenter (2nd Class)	2.75 Nos. @ Rs.	435.00 /each =	Rs. 1,196.25
Semiskilled Mulia	2.75 Nos. @ Rs.	385.00 /each =	Rs. 1,058.75
			Rs. 2,255.00
			Rs. 22.55

c) Add Labour cess @ 1% on (a+b)

RATE FOR

(i) Ground Floor -

8. R.C.C. work M-20 grade using 20mm. and down grade HBG crusher broken chips including hoisting, laying, cost, conveyance and royalty of materials curing including centering and shuttering etc. complete.

(a) For R.C.C foundation, footing bases of column,
mass concrete, pre-cast slabs, plinth band etc.

Cost of C.C		Rs.	4,845.71
Centring & shuttering	1.50 Sqm @ Rs.	90.29 Rs.	135.44
		Rs.	4,981.15 /Cum

(b) For R.C.C plinth band etc.

Cost of C.C		Rs.	4,845.71
Centring & shuttering.	5.00 Sqm @ Rs.	90.29 Rs.	451.45
		Rs.	5,297.16 /Cum

(c) R.C.C Beam & Column

(i) Ground Floor

Cost of C.C		Rs.	4,845.71
Centring & shuttering.	8.00 Sqm @ Rs.	673.84 Rs.	5,390.72
		Rs.	10,236.43 /Cum

(e) Lintel

(i) Ground Floor

Cost of C.C		Rs.	4,845.71
Centring & shuttering. 10.00 Sqm	14.00 Sqm @ Rs.	235.58 Rs.	3,298.12
		Rs.	8,143.83 /Cum

(f) R.C.C Stair

(i) Ground Floor

Cost of C.C	1.00 cum @ Rs.	4845.71 Rs.	4,845.71
Centring & shuttering	9.00 Sqm @ Rs.	550.80 Rs.	4,957.20
		Rs.	9,802.91 /Cum

(g) Chaja

(i) Ground Floor

Cost of C.C	0.0625 Sqm @ Rs.	4845.71 Rs.	302.86
Centring & shuttering	1.100 Sqm @ Rs.	372.38 Rs.	409.62
		Rs.	712.48 /Sqm

(h) Roof slab, Landing, Balcony.

(i) Ground Floor

Cost of C.C		Rs.	4,845.71
Centring & shuttering. 10.00 Sqm	10.00 Sqm @ Rs.	372.38 Rs.	3,723.80

Rs. 8,569.51 /Cum

9. Supplying, fitting and placing uncoated HYSD bar reinforcement as per drawing and technical specification including cost, conveyance and all taxes of steel and binding wire etc. complete.
Unit - 1 MT and Taking Output = 1 MT

a) Materials -

HYSD bars including 5% overlaps and wastage	1.05 MT @ Rs.	7943.00 /MT =	Rs. 83,401.50
Binding wire	8.00 kg. @ Rs.	65.53 /kg. =	Rs. 524.24
			<u>Rs. 83,925.74</u>

b) Labour -

Mate	0.44 Nos. @ Rs.	385.00 /each =	Rs. 169.40
Blacksmith(special)	3.00 Nos. @ Rs.	495.00 /each =	Rs. 1,485.00
Man Mulia	8.00 Nos. @ Rs.	345.00 /each =	Rs. 2,760.00
			<u>Rs. 4,414.40</u>

**c) Carriage of Rod
RATE FOR**

1.05 MT @ Rs.	161.72 /MT =	Rs. 169.81
	Total Rate/1 MT =	Rs. 88,509.95
	Total Rate/qntl. =	Rs. 8,850.99 /Qtl
		<u>Rs. 88.51</u>

d) Add Labour Cess @ 1%

(i) Ground Floor -

	<u>Rs. 8,939.50</u>
or say Rate/cum. =	Rs. 8,939.50 /Qtl

10. 6mm. thick cement plaster (1:4) to R.C.C. surfaces finished smooth including closed deep chipping and slurry treatment, cost, conveyance and royalty of materials curing etc. complete.

a) Materials -

Sand(screened and washed)	0.0075 Cum @ Rs.	46.67 /cum. =	Rs. 0.35
Cement	0.0075 Qntl. @ Rs.	734.00 /qntl. =	Rs. 5.51
			<u>Rs. 5.86</u>

b) Labour -

Mason (2nd Class)	0.14 Nos. @ Rs.	435.00 /each =	Rs. 60.90
Man mulia	0.12 Nos. @ Rs.	345.00 /each =	Rs. 41.40
Woman mulia	0.05 Nos. @ Rs.	345.00 /each =	Rs. 17.25
			<u>Rs. 119.55</u>

c) Transportation & Royalty -

Sand(screened and washed)	0.0075 Cum @ Rs.	272.67 /cum. =	Rs. 2.05
Cement	0.0075 Qntl. @ Rs.	16.17 /qntl. =	Rs. 0.12
			<u>Rs. 2.17</u>
		Total Rate/Sqm =	Rs. 127.57
			<u>Rs. 1.28</u>

d) Add Labour Cess @ 1%

RATE FOR

(i) Ground Floor

	<u>Rs. 128.85</u>
or say Rate/Sqm. =	Rs. 128.85 /sqm

11. 12mm. thick cement plaster in c.m. 1:6 over brick masonry including cost conveyance and royalty of materials curing etc. complete.

a) Materials -

Sand(screened and washed)	0.015 Cum @ Rs.	46.67 /cum. =	Rs. 0.70
Cement	0.0358 Qntl. @ Rs.	734.00 /qntl. =	Rs. 26.28
			<u>Rs. 26.98</u>

b) Labour -

Mason (2nd Class)	0.14 Nos. @ Rs.	435.00 /each =	Rs. 60.90
Man mulia	0.07 Nos. @ Rs.	345.00 /each =	Rs. 24.15
Woman mulia	0.05 Nos. @ Rs.	345.00 /each =	Rs. 17.25
			<u>Rs. 102.30</u>

c) Transportation & Royalty -

Sand(screened and washed)	0.015 Cum @ Rs.	272.67 /cum. =	Rs. 4.09
Cement	0.0358 Qntl. @ Rs.	16.17 /qntl. =	Rs. 0.58

d) Add Labour Cess @ 1%

RATE FOR

(i)Ground Floor

12. 16mm. thick cement plaster in c.m. 1:6 including cost conveyance and royalty of materials curing etc. complete.

a)Materials -

Sand(screened and washed)	0.018 Cum @ Rs.
Cement	0.043 Qntl. @ Rs.

Rs.	4.67
Total Rate/Sqm =	Rs. 133.95
Rs.	1.34
Rs.	135.29

or say Rate/Sqm. = Rs. 135.29 /sqm

b)Labour -

Mason (2ndClass)	0.16 Nos. @ Rs.
Man mulia	0.13 Nos. @ Rs.
Woman mulia	0.11 Nos. @ Rs.

46.67 /cum. =	Rs. 0.84
734.00 /qntl. =	Rs. 31.56
Rs.	32.40

435.00 /each =	Rs. 69.60
345.00 /each =	Rs. 44.85
345.00 /each =	Rs. 37.95
Rs.	152.40

c)Transportation & Royalty -

Sand(screened and washed)	0.018 Cum @ Rs.
Cement	0.0430 Qntl. @ Rs.

272.67 /cum. =	Rs. 4.91
16.17 /qntl. =	Rs. 0.70
Rs.	5.60

Total Rate/Sqm = Rs. 190.41

Rs. 1.90

Rs. 192.31

or say Rate/Sqm. = Rs. 192.31 /sqm

d) Add Labour Cess @ 1%

RATE FOR

(i)Ground Floor

13. 12mm thick cement plaster (1 : 4) over brick work with cement punning for skirting per 1 Sqm.

a)Materials -

Sand(Screened and washed)	0.015 Cum @ Rs.
Cement 0.0045 cum	0.0644 Qntl. @ Rs.
Total	

46.67 /cum. =	Rs. 0.70
734.00 /qntl. =	Rs. 47.27
Rs.	47.97

b)Labour -

Manson 2nd Class	0.15 Nos. @ Rs.
Man Mulia	0.04 Nos. @ Rs.
Women Mulia	0.05 Nos. @ Rs.
Man Mulia for mixing Sand & Cement	0.02 Nos. @ Rs.
Total	

435.00 /each =	Rs. 65.25
345.00 /each =	Rs. 13.80
345.00 /each =	Rs. 17.25
345.00 /each =	Rs. 6.90
Rs.	103.20

c)Transportation -

Sand(screened and washed)	0.015 Cum @ Rs.
Cement	0.0644 Qntl. @ Rs.

272.67 /cum. =	Rs. 4.09
16.17 /qntl. =	Rs. 1.04
Rs.	5.13

Total Rate/Sqm = Rs. 156.30

Rs. 1.56

Rs. 157.86

or say Rate/Sqm. = Rs. 157.86 /sqm

d) Add Labour Cess @ 1%

RATE FOR

(i)Ground Floor

14. 25 mm thick grading concrete in C.C. (1:2:2) on roof slab with 4.7 mm size including cost conveyance and royalty of materials curing etc. complete.

a)Materials -

C.B H.G. chips 4.7mm.size	0.0169 Cum @ Rs.
Sand(screened and washed)	0.0169 Cum @ Rs.
Cement	0.1208 Qntl. @ Rs.

638.10 /cum. =	Rs. 10.78
46.67 /cum. =	Rs. 0.79
734.00 /qntl. =	Rs. 88.67
Rs.	100.24

b)Labour -

Mason 1 st class	0.10 Nos. @ Rs.
Man mulia	0.36 Nos. @ Rs.

495.00 /each =	Rs. 49.50
345.00 /each =	Rs. 124.20

c)Transportation & Royalty -

C.B H.G. chips 4.7mm.size	0.0169 Cum @ Rs.	499.67 /cum. =	Rs.	8.44
Sand(screened and washed)	0.0169 Cum @ Rs.	272.67 /cum. =	Rs.	4.61
Cement	0.1208 Qntl. @ Rs.	16.17 /qntl. =	Rs.	1.95
			Rs.	15.01

Total Rate/Sqm = Rs. 288.95
Rs. 2.89

Rs. 291.84

or say Rate/Sqm. = **Rs. 291.84 /sqm**

d) Add Labour Cess @ 1%

RATE FOR

(i)Ground Floor

15. 2.5cm artificial stone flooring with cement concrete (1:2:4) including punning using 12mm size hand broken granites chips.

a)Materials -

Crusher broken granite Chips (12mm, screened)	0.023	Cum @ Rs.	1047.62 /cum. =	Rs.	24.10
sand (Screened and washed)	0.012	Cum @ Rs.	46.67 /cum. =	Rs.	0.56
Cement (0.006 cum)	0.0858	Qntl. @ Rs.	734.00 /qntl. =	Rs.	62.98
Total				Rs.	87.63

b)Labour -

Man mulia for mixing chips cement and sand in small quantity and watering	0.03	Nos. @ Rs.	345.00 /each =	Rs.	10.35
Mason special	0.13	Nos. @ Rs.	495.00 /each =	Rs.	64.35
Women mulia	0.22	Nos. @ Rs.	345.00 /each =	Rs.	75.90
Man mulia	0.11	Nos. @ Rs.	345.00 /each =	Rs.	37.95
Total				Rs.	188.55

c)Transportation & Royalty -

Crusher broken granite Chips (12mm, screened)	0.023	Cum @ Rs.	499.67 /cum. =	Rs.	11.49
sand (Screened and washed)	0.012	Cum @ Rs.	272.67 /cum. =	Rs.	3.27
Cement (0.006 cum)	0.0858	Qntl. @ Rs.	16.17 /qntl. =	Rs.	1.39
				Rs.	16.15

Total Rate/Sqm = Rs. 292.33
Rs. 2.92

Rs. 295.26

or say Rate/Sqm. = **Rs. 295.26 /sqm**

d) Add Labour Cess @ 1%

RATE FOR

(i)Ground Floor

16. Supplying, fitting,fixing of M.S. grill in windows including screws with cost of conveyance, taxes of all materials,labour,T&P etc complete etc as per direction of Engineer-in-charge.

Data for 2'-7"x 4'-1"=10.54 Sft or Say 0.98 Sqm.

a)Labour -

As per S/R page-111/5= 0.98 Sqm @ 12.10 /Sqm= Rs. 11.86

b) Add overhead charges with C.P.@ 15%

Rs. -

c)Considering the weight of grill @2.50 Kg/Sqft

10.54x2.50 Kg 26.35 Kg @ 88.51 /Kg= Rs. 2,332.24
Rs. 2,344.09

Rateper 1 Kg =1787.79/26.35 Rs. 88.96 /Kg

Add 1 % for Labour Cess

Rs. 0.89

Rs. 89.85

or say Rate/Sqm. = **Rs. 89.85 /Kg**

17. Priming one coat with primer of approved quality over iron work .

Data for 9.30Sqm.

(A) a)Labour -

Painter (1st class)	0.50 Nos. @ Rs.	495.00 /each =	Rs.	247.50
Man mulia	0.50 Nos. @ Rs.	345.00 /each =	Rs.	172.50
			Rs.	420.00

b) Add overhead charges with C.P.@ 15% on (a)

Rs. -

Total = Rs. 420.00

/Sqm Rs. 45.16

c)Material -

Cost of Primer 0.54 litre/10 sqm 0.054 Ltr. @ Rs.

0.97 /litre Rs. 0.05

Total Rs. 45.21

c)Add Labour cess @ 1%

Rs. 0.45

Rs. 45.67

or say Rate/sqm. = Rs. 45.67 /Sqm

(i)Ground Floor -

18. Painting two coats with enamel paint of approved quality .

Data for 9.30Sqm.

(B) a)Labour -

Painter (1st class)

1.25 Nos. @ Rs.

495.00 /each = Rs. 618.75

Man mulia

1.00 Nos. @ Rs.

345.00 /each = Rs. 345.00

Man mulia(for prep. surface)

0.10 Nos. @ Rs.

345.00 /each = Rs. 34.50

Total = Rs. 998.25

/Sqm Rs. 107.34

b)Material with Transportation -

Cost of Paint 1.25 ltr/10 sqm

0.125 Ltr @ Rs.

0.97 /litre = Rs. 0.12

Rs. 107.46

c)Add Labour cess @ 1%

Rs. 1.07

Rs. 108.53

or say Rate/sqm. = Rs. 108.53 /Sqm

(i)Ground Floor -

19. Painting two coats with enamel paint of approved quality over one coat of primer .

a Iron Work

a)For Ground floor

i) Primer one coat

Rs. 45.21 /Sqm

ii) Painting two coat

Rs. 108.53 /Sqm

Rs. 153.74 /Sqm

or say Rate/sqm. = Rs. 153.74 /Sqm

20. Water bound cement priming one coat with primer of approved quality over
Data for 9.3Sqm.

a)Labour -

Painter (1st class)

0.50 Nos. @ Rs.

495.00 /each = Rs. 247.50

Man mulia

0.50 Nos. @ Rs.

345.00 /each = Rs. 172.50

Rs. 420.00

b)Transportation -

Water bound cement primer

0.084 Qntl. @ Rs.

0.00 /qntl. = Rs. -

Total Rs. 420.00 /9.3 sqm

Rs. 45.16

c)Cost of paint -

Cost Water bound cement primer 0.84 litre/10 sq

0.084 Ltr. @ Rs.

119.69 /qntl. = Rs. 10.05

Total Rate/Sqm = Rs. 55.22

Rs. 0.55

d)Add Labour cess @ 1%

Rs. 55.77

or say Rate/sqm. = Rs. 55.77 /Sqm

(i)Ground Floor -

21. Distempering two coats with any approved shade over the interior surface of wall

Data for 10 Sgm

a Labour

Painter Special

0.52 Nos. @ Rs.

495.00 /each = Rs. 257.40

Mulia

0.52 Nos. @ Rs.

345.00 /each = Rs. 179.40

Mulia for preparation of surface

0.10 Nos. @ Rs.

345.00 /each = Rs. 34.50

Per 10Sqm Rs. 471.30

Rate for one sqm =

or say Rate/sqm. = Rs. 47.13

b Material with Transportation -

Cost of distemper

0.25 Ltr. @ Rs.

0.97 /Kg= Rs. 0.24

					Total =	Rs.	47.37	/Sqm
c Add 1 % for Labour Cess						Rs.	0.47	
a)For Ground floor						Rs.	47.85	
22. Wall painting with two coats weather coat paint of approved shade on new wrk to give an even shade excluding cost of paint.					or say Rate/Sqm. =	Rs.	47.85	/Sqm
Data for 10 Sqm								
a Labour								
Painter or polisher (special)	0.54	Nos. @ Rs.	495.00 /each =	Rs.	267.30			
Man Mulia	0.54	Nos. @ Rs.	345.00 /each =	Rs.	186.30			
Man Mulia for preparation of surface.	0.10	Nos. @ Rs.	345.00 /each =	Rs.	34.50			
Rate for one sqm =					Per 10Sqm	Rs.	488.10	
c Material with Transportation Cost of weather					or say Rate/sqm. =	Rs.	48.81	
	0.125	Ltr. @ Rs.	0.97 /Ltr=	Rs.	0.12			
d Add 1 % for Labour Cess					Total =	Rs.	48.93	/Sqm
a)For Ground floor						Rs.	0.49	
23. Supplying, fitting and fixing of Stainless steel of 304 grade in hand railing using 50mm dia of 2mm thick circular pipe with Balustrade of size 32mm x 32mm x 2mm @ 0.90mtr. C/C and stainless square pipe bracing of size 32mm x 32mm x 2mm in 3 rows in staircase as per approved design and specification, buffing, polishing etc with cost, conveyance, taxes of all materials, labour, T&P etc. required for the complete in all respect.					or say Rate/Sqm. =	Rs.	49.42	/Sqm
Data for 3.26 Rmt.								
					(Vide Analysis of Rates-2012, Ltr.No.-6025/W, Dt. 12.06.2012)			
a) Materials								
Railing- 50mm outer dia of 2mm thick 3.26 rmt. @ 3.50kg/mtr.	11.41	Kg	240.24	2741.14				
Balustrade of size 32mmx32mmx2mm (4x0.90m = 3.60mtr. @	6.12	Kg	256.62	1570.51				
Stainless steel square pipe bracing of size 32mm x32mmx2mm in 3 rows (3x3.26m =9.78mtr. @ 1.70kg/mtr.	16.63	Kg	256.62	4267.59				
Fabrication	34.16	Kg	10.00	341.60				
				8920.84				
Buffing, polishing etc. 2%	8920.84	2%		178.42				
				9099.26				
b) Labour								
High skilled labour	0.89	Each	495.00	440.55				
Semi skilled labour	0.89	Each	385.00	342.65				
				783.20				
				9882.46				
d) Add Labour Cess on (a+b)							98.82	
Total (a+b+c)							9981.28	
Rate per 1 Rmt.							3061.74	
					Or Say Rs	3061.74	/Rmt	


 17.04.28
 Assistant Engineer
 PR & DW Deptt.

Handwritten text, mostly illegible due to fading and bleed-through. Some words like "The" and "and" are visible.