

**OFFICE OF THE**  
**DIVISIONAL FOREST OFFICER, MANGROVE FOREST DIVISION (WILDLIFE), RAJNAGAR**

**AT / P.O: Rajnagar, Dist; Kendrapara-754225, Phone-06729-242460,**

**Control Room: 06729-242463, E-mail ID: dfo.rajnagarwl@odisha.gov.in**

**Letter No. 7844 / IF-Acct-497/2025**

**Dated, Rajnagar, the 12<sup>th</sup> December, 2025**

To

The Director,  
Information & Public Relation Department  
Government of Odisha, Bhubaneswar

**Sub: Short Tender Call Notice for Construction of Civil Works for Malkhana at Sansarphal of Rajnagar Wildlife Range under Mangrove Forest Division (Wildlife) Rajnagar during Fy 2025-26.**

Sir,

Please, find enclosed herewith a Short Tender Call Notice for **Construction of Civil Works for Malkhana at Sansarphal of Rajnagar Wildlife Range under Mangrove Forest Division (Wildlife) Rajnagar during Fy 2025-26**. The same may be published in two leading local daily Odia Newspapers and one English Newspaper for wide circulation.

**Enclose: As above**

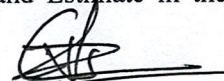
Yours faithfully



Divisional Forest Officer  
Mangrove Forest Division (Wildlife)  
Rajnagar

**Memo No. 7845 / Dated.12/12/2025**

Copy submitted to the Principal Chief Conservator of Forests (Wildlife) & Chief Conservator of Wildlife Warden, Odisha, Bhubaneswar for favour of kind information and necessary action. It is requested to kindly upload the above Short Call Tender Notice and Estimate in the website of <https://wildlife.odisha.gov.in> as early as possible.



Divisional Forest Officer  
Mangrove Forest Division (Wildlife)  
Rajnagar

**Memo No. 7846 / Dated.12/12/2025**

Copy submitted to the Regional Chief Conservator of Forests, Bhubaneswar Circle, Bhubaneswar for favour of kind information and necessary action.



Divisional Forest Officer  
Mangrove Forest Division (Wildlife)  
Rajnagar



**OFFICE OF THE**  
**DIVISIONAL FOREST OFFICER, MANGROVE FOREST DIVISION (WL), RAJNAGAR**  
**AT/P.O: Rajnagar, Dist: Kendrapara-754225, Phone: 06729-242460,**  
**Control Room: 06729-242463, E-mail ID: [dfo.rajnagarwl@odisha.gov.in](mailto:dfo.rajnagarwl@odisha.gov.in)**


**BID IDENTIFICATION NO- DFO MFD-Construction/01/1F(Accts.)/Tender/497/ Dated.12/12/2025**

**Dated, Rajnagar the 12<sup>th</sup> December, 2025**

**Tender Call Notice**

Name of work:	Construction of Civil Works for Malkhana at Sansarpal of Rajnagar WL Range under Mangrove Forest Division (WL) Rajnagar during the FY-2025-26
Total No. of Works	<b>01no.</b>
<b>Estimated Cost</b>	Rs. 12.41532 Lakh excluding GSTs
Period of completion	Three Calendar Months
Date of availability of bid Documents in portal and Office:	Tender Document will be available in the O/o the Divisional Forest Officer, Mangrove Forest Division (WL) Rajnagar on payment of cost of Tender Document in shape of non-refundable Bank Draft in favour of Divisional Forest Officer, Mangrove Forest Division (WL) Rajnagar payable at Rajnagar from 11.00 AM of 15.12.2025 to 5.00 PM of 29.12.2025 or download from the <a href="https://odishaforest.in">https://odishaforest.in</a> or <a href="https://forest.odisha.gov.in">https://forest.odisha.gov.in</a> & <a href="https://wildlife.disha.gov.in">https://wildlife.disha.gov.in</a>
Last date/time for receipt of bids	Up to 05.00 PM of 29.12.2025
Receipt of bid documents:	Through direct deposit by hand / registered post / speed post to the Divisional Forest Officer, Mangrove Forest Division (WL) Rajnagar, Kendrapara, PIN-754225 on or before 29.12.2025 by 5.00 PM
Class of Contractor:	" C " & " D " Class Contractor
Receipt of EMD :	Earnest Money Deposit (EMD) @1% of the value of the work shall be submitted along with Tender, EMD will be in the shape of Demand Draft in favour of Divisional Forest Officer, Mangrove Forest Division (WL) Rajnagar, Kendrapara. The EMD will be refunded to the unsuccessful bidder. The EMD for the successful bidder will be released only after completion and handover the work.
Date & Time of opening of Bid documents	At 11.30 PM of 30.12.2025
Name and address of officer inviting bid:	Divisional Forest Officer, Mangrove Forest Division (Wildlife) Rajnagar

- Further, details can be seen from the portal <https://forest.odisha.gov.in> or <https://odishaforest.in>
- The addendum / Corrigendum if any will be hosted in the website only.
- The undersigned reserves the right to accept / reject any or all Tender without assigning any reason thereof.

  
**Divisional Forest Officer**  
**Mangrove Forest Division (Wildlife)**  
**Rajnagar**



**OFFICE OF THE  
DIVISIONAL FOREST OFFICER, MANGROVE FOREST DIVISION (WL), RAJNAGAR**  
AT/P.O: Rajnagar, Dist: Kendrapara-754225, Phone: 06729-242460,  
Control Room: 06729-242463, E-mail ID: [dfo.rajnagarwl@odisha.gov.in](mailto:dfo.rajnagarwl@odisha.gov.in)

**BID IDENTIFICATION NO- DFO MFD-Construction/01/1F(Accts.)/Tender/497/ Dated.12/12/2025**

**Dated, Rajnagar the 12<sup>th</sup> December, 2025**

**Tender Call Notice**

1. The Divisional Forest Officer, Mangrove Forest Division (Wildlife) Rajnagar on behalf of Governor of Odisha invites **Offline** mode system as detailed in the table from the class of eligible contractors as mentioned in **Coloumn-05 (Five)** registered with the State Govt. and contractors of equivalent Grade/ Class registered with Central Govt. / MES/ Railways for execution of Civil Works. The proof of registration from the appropriate authority shall be enclosed along with the bid. The successful bidder who has not registered under State Government has to register under the State PWD in appropriate class of eligibility before signing of the agreement.

Sl. No.	Name of Works	Estimated Cost put of tender excluding GST (Rs in Lakh)	EMD required (1% of the Bid Amount)	Class of Contract	Period of Completion	Cost of Tender paper (in Rs.)
1	2	3	4	5	6	7
01	Construction of Malkhana at Sansarpal of Rajnagar Wildlife Range under Mangrove Forest Division (Wildlife) Rajnagar during the FY 2025-26	1241532.00	12500.00	"C" & "D" Class	3 (Three) Calendar Months	6000.00

2. Bid documents consisting of plans, specifications, the schedule of quantities and the set of terms and conditions of contract and other necessary documents can be seen in the official website: portal <https://forest.odisha.gov.in> or <https://odishaforest.in> & <https://wildlife.odisha.gov.in>
3. The bidder shall deposit non-refundable Bank Draft in favour of **DIVISIONAL FOREST OFFICER, MANGROVE FOREST DIVISION (WILDLIFE), RAJNAGAR** towards cost of bid documents.
4. The Bidders shall produce DD in favour of **DIVISIONAL FOREST OFFICER, MANGROVE FOREST DIVISION (WILDLIFE), RAJNAGAR** the Earnest Money Deposit/ Bid Security of the amount.
5. The Bid documents will be available in the website portal <https://forest.odisha.gov.in> or <https://odishaforest.in> from 15.12.2025 to 29.12.2025 for offline bidding.
6. Bids shall be received only offline from **15.12.2025 at 10.00 AM to 29.12.2025 at 5.00 PM.**
7. Bids received offline shall be opened 11.30 AM on dated. 29.12.2025 in the Office of the Divisional Forest Officer, Mangrove Forst Division (Wildlife), Rajnagar in the presence of bidders who wish to attend. Bidders who participated in the bid can witness the opening of bids.
8. Please submit the required documents which are clear and visible, otherwise your application will be rejected. If you are unable to furnish visible documents you may also furnish the hard copies of the required document.



9. Rate quoted by the contractor shall be including of GST. The GST as applicable for the work. The estimated cost is inclusive of GST and 12% profit of the contractor and all cesses and Taxes to be paid as per Government Rule from time to time for executing this category of work.
10. The cost of labour cess is @1% over and above the work value.
11. The successful bidder who has quoted less bid price/ rate less than estimated cost put to tender as per **Works Dept. Govt. of Odisha Office Memorandum No. 4559 dated. 05.04.2021** (details attached in Detailed Tender Call Notice) shall have to furnish i.e. as Additional Performance security (APS) in shape of DD/TDR Pledged in favour of Divisional Forest officer, mangrove Forst Division (Wildlife), Rajnagar within 7 days from date of intimation otherwise the bid shall be cancelled & security deposit shall be forfeited further proceeding of blacklisting shall be intimated against the bidder. Rate quoted by the contractor shall be including of GST. The GST as applicable for the work. The estimated cost is inclusive of GST and 12% profit of the contractor and all cesses and Taxes to be paid as per Government Rule from time to time for executing this category of work.
12. Engineering contractors who are desirous to avail the facility of exemption of EMD/ISD are required to submit the scan copy of affidavit along with bid document to the effect that he / she had not yet availed the facility during current financial year as per codal provision.
13. The SC/ST contractors willing to avail the facilities as fixed by Govt. will submit scan copy of the affidavit for the same along with tender document; otherwise, they will not be entitled to avail such facilities.
14. Other details can be seen in the bidding documents.
15. Detailed information as contained in Detailed Tender Call Notice, shall have to be strictly adhered to while submitting the tender papers.
16. Any tenderer desirous to avail any facility as per certain circular/order of Government have to apply for the same in writing along with the tender paper. Claim at the time of opening of tender or later will not be entertained.
17. If any of the intending bidders wish to withdraw from participation in the bid. He/ She can freely withdraw from the participation before scheduled date and time of closure, failing which action as deemed fit as per relevant Codal practice will be taken against him/her.
18. The authority will not be held responsible for any technical problem/ failure of Network and deposit of documents.
19. **Contractor has to submit CDMS registration failing which tender will summarily be rejected as per E.I.C (Civil) Letter No. 30613 (12) dated. 22.07.2019.**
20. **The Agency has to submit Bid Declaration as per Finance Dept. Letter No. 8943 dated. 18.03.2021 (Schedule-K).**
21. The Addendum/ Corrigendum if any will be hosted in the website only.
22. The authority reserves all the rights to cancel any or all bids without assigning any reason.

**DOCUMENTS AND CHECK LIST TO BE FILED UP BY THE BIDDER**

Sl. No	Items of Works	Details to be filed	Remarks
1	<b>Name of Contractor with address [Block Letter]</b>		
2	<b>Name of the proprietor/ Partner/ Director</b>		
3	<b>Full Address of Registered Office Proof of Address to be furnished</b>		
4	<b>Address far correspondence (If other than in 3)</b>		




5	Contact No. and E-Mail ID of Authorized Officer/Person		
6	PAN No. (please furnish document)		
7	GST details (please furnish document)		
8	Works Department License:		
9	Contractor Registration No. (please furnish document)		
10	Joint venture / (MOU) for composite building works.		
11	Experience as a contractor (Proof of experience to be enclosed work orders and Completion certificates)		
12	Company Profile:		
13	Income tax returns of the Company/ Firms for the last years (Copies)		
14	Balance sheet last three years (Copies)		
15	Aadhar Card No. (Xerox copy)		
	Tendering Cost:		

Certified that the information as above is true to be beat of my knowledge & I will be held responsible if anything to the Contrary / Adverse will be observed in future.

Full Signature of Applicant/Authorized Person

Date:

  
 Divisional Forest Officer  
 Mangrove Forest Division (Wildlife)  
 Rajnagar

P.T.O



Memo No. 7847 /1F(Accts.)/Tender/497/ Dated.12/12/2025

Copy submitted to the Chief Conservator of Forests (IT & GIS), O/o the Principal Chief Conservator of Forests, Odisha, Bhubaneswar for favour of kind information and necessary action. He is requested to upload the above Short Tender Call Notice and Estimate in the website of in the website of Principal Chief Conservator of Forests & HoFF, Odisha <https://forest.odisha.gov.in> or <https://odishaforest.in> as early as possible.

Divisional Forest Officer  
Mangrove Forest Division (Wildlife)  
Rajnagar

Memo No. 7848 /1F(Accts.)/Tender/497/ Dated.12/12/2025

Copy submitted to the Principal Chief Conservator of Forests (Wildlife) & Chief Conservator of Wildlife Warden, Odisha, Bhubaneswar for favour of kind information and necessary action. It is requested to kindly upload the above Short Call Tender Notice and Estimate in the website of <https://wildlife.odisha.gov.in> as early as possible.

Divisional Forest Officer  
Mangrove Forest Division (Wildlife)  
Rajnagar

Memo No. 7849 /1F(Accts.)/Tender/497/ Dated.12/12/2025

Copy submitted to the Regional Chief Conservator of Forests, Bhubaneswar Circle, Bhubaneswar for favour of kind information and necessary action.

Divisional Forest Officer  
Mangrove Forest Division (Wildlife)  
Rajnagar

Memo No. 7850 /1F(Accts.)/Tender/497/ Dated.12/12/2025

Copy submitted to the Collector & District Magistrate, Kendrapara for favour of kind information and necessary action.

Divisional Forest Officer  
Mangrove Forest Division (Wildlife)  
Rajnagar

Memo No. 7851 /1F(Accts.)/Tender/497/ Dated.12/12/2025

Copy forwarded to all Divisional Forest Officers (T & NT), Odisha for information and necessary action. It is requested to display the above said short Tender Notice in their office Notice Board.

Divisional Forest Officer  
Mangrove Forest Division (Wildlife)  
Rajnagar

Memo No. 7852 /1F(Accts.)/Tender/497/ Dated.12/12/2025

Copy forwarded to the Assistant Conservator of Forests / Head Clerk of Mangrove Forest Division (Wildlife) Rajnagar for their information and necessary action.

Divisional Forest Officer  
Mangrove Forest Division (Wildlife)  
Rajnagar

P.T.O



**Memo No.** 7853 /1F(Accts.)/Tender/497/ Dated.12/12/2025

Copy forwarded to the Assistant Conservator of Forests, I/c- Kanika Wildlife Range & all Range Officers, Mangrove Forest Division (Wildlife) Rajnagar for information and necessary action. They are instructed to display the said short Tender Notice in their Office Notice Board.

**Divisional Forest Officer**  
**Mangrove Forest Division (Wildlife)**  
Rajnagar

**Copy to Notice Board & Website.**



**GOVT. OF ODISHA  
FOREST , ENVERONMENT & CLIMATE CHANGE  
DEPARTMENT**



**MANGROVE FOREST DIVISION( W L)  
RAJNAGAR  
DIST - KENDRAPADA**

**Name of the work :-** Details estimate for Construction of Malkhana  
at Sansaraphal under Rajnagar W L Range ,  
Dist- Kendrapada

**Estimated Cost :** Rs. 15 ,00 ,000.00

**Rupees (Fifteen Lakhs )Only**

**Agency :** Forest Range Officer, Rajnagar WL Range

**Year :** 2025-26  
22-2406-Forestry & WL-programme-Expenditure -state sector  
scheme -02-Enviromental Forestry % WL preservation -3128-  
wildlife protection & Conservation measure -20002--other

**Scheme :** charges



## REPORT :

Name of the work : Details estimate for Construction of Malkhana at Sansariphal under Rajnagar W L Range , Dist- Kendrapada

Estimated Cost : Rs. 15 ,00 ,000.00

Rupees (Fifteen Lakhs )Only

Year : 2024-25

In this estimate, necessary RCC frame structure has been adopted for the buildings using standard specifications, following provisions has been provided in this estimate.

- 1 RCC frame structure has been adopted
- 2 RCC M20 grade concrete as per IS 456 2000
- 3 Fly ash Bricks massory work in C.M(1:6) for Foundation and Plinth
- 4 Fly ash Bricks in C.M(1:6) for superstructure
- 5 MS reinforcement of grade Fe415
- 6 12mm CP in cm (1:6) for outside , 16mm cp in cm(1:6) for inside and 6mm CP in cm(1:4) with close deep chipping for RCC work
- 7 inside wall finished with 2 coat plastic paint over Arcelic wall putty, where as outside wall finished with weather coat paint.
- 8 MS grill finished with 2 coat enamel paint over 1 coat red oxide primer

This estimate is prepared basing upon Analysis of Rates 2006, Schedule of Rates 2022 and prevailing labour rates of Vide Lr. No. - 6202/ LC, /30.04.2025 of Labour Department. Overhead charges and Contractor's profit have been added as per Works Department OM No 7317, dt 05.07.2013. There is a provision of 1% Labour cess of the total project cost and 1.50% for preparation of Plan ,Structural Design Drawing & Prepairation of estimate has to be paid to M/S Madhusmita Design & Engineers Studio,Nageswar Tangi, Bhubaneswar towards the consultancy fees.. Contingency (L.S) also has been provided in this estimate to meet expenditure of the unforeseen items that may be required during execution of the work. In the estimate the lead of the minour minerals i. e stone product,Sand has been provided as per the qurry site mentioned by the Collector and District Magistrate, Kendrapada vide his office letter No. - 2464 Dated -05.09.2023 . also there is 18%(9% CGST & 9% SGST) of the project cost has been provided towards GST component of the work. The work will be executed through e- tender process and as per the OPWD codal procedures along with guidelines issued by higher authorities from time to time.

*prepared by*

*BMJ*

Er.PREM PRAKASH SAHU C Eng(I)  
M. Tech. (Structural Engg.)  
143, Nageswartangi,Bhubaneswar-2  
Membership No.- AM1917156  
The Institution of Engineers (I)

*On request*  
*Sale*  
*29/5/25*

Asst.Executive Engineer  
R.W.Sub.Dvn.Rajnagar



**General Abstract of cost for Construction of Malkhana at Sansarpahal under Rajnagar W L Range , Dist- Kendrapada**

Sl.	DESCRIPTION				AMOUNT
					(Rs.)
1	PART-A ( Civil work )			Rs.	11 ,76 ,134.54
2	PART(B) - Internal electrification			Rs.	65,397.03
3	Sub Total (A)			Rs.	12 ,41 ,532.00
4	Sub Total (A)			Rs.	12 ,41 ,532.00
5	Add CGST	9.00%		Rs.	1 ,11 ,738.00
6	Add SGST	9.00%		Rs.	1 ,11 ,738.00
7	Sub Total (B)			Rs.	14 ,65 ,008.00
8	Consultancy fees 1.50%			Rs.	21,975.00
9	Add Works Contingency			Rs.	13,017.00
10	Grand Total (C)			Rs.	15 ,00 ,000.00

Rupees (Fifteen Lakhs )Only

*prepared by*

*P.M.*

Er.PREM PRAKASH SAHU C Eng(I)  
M. Tech. (Structural Engg.)  
143, Nageswartangi, Bhubaneswar-2  
Membership No.- AM1917156  
The Institution of Engineers (I)

*29.5.25*

Asst. Executive Engineer  
R.W. Sub. Dm. Rajnagar

*Countersigned*

*25/6/25*

Asst. Conservator of Forests  
Mangrove Forest Division (W.L.)  
RAJNAGAR

*Sanctioned*

*25/6/25*  
Divisional Forest Officer  
Mangrove Forest Division (Wildlife)  
Rajnagar

Abstract of cost for Construction of Malkhana at Sansapal under Rajnagar W L Range , Dist- Kendrapada					
Sl.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (Rs.)
<b>PART-A ( Civil work )</b>					
1	Foundation excavation in Earth work in hard soil within 50m. Initial lead and 1.5m initial lift including rough dressing and breaking clods to maximum 5cm to 7cm and laying in layer not exceeding 0.3m in depth and as per specification approved by the department etc. complete.etc. complete as per direction of Engg-in-Charge .	33.840	Cum.	276.89	9,369.96
2	Filling foundation and plinth with sand and well watered and rammed including cost, conveyance and royalty etc complete as per direction of Engg.-in-Charge.	49.550	Cum.	1,121.45	55,567.85
3	Cement concrete (1:3:6)with 40mm size CBHG metal including cost, conveyance and royalty etc. complete as per direction of Engg.-in-Charge.	14.690	Cum.	6,903.69	1,01,415.21
4	Cement Concrete (1:2:4) with 12 mm size broken hard granite chips for R.C.C. works including hoisting and laying etc. complete as per direction of Engg-in-Charge .	4.980	Cum.	9,221.02	45,920.68
5	Fly Ash Brick masonry in c.m. 1:6 in F & P including cost,conveyance and royalty of materials curing etc. complete. as per the direction of the Engineer-in-charge.	7.820	Cum.	5,613.72	43,899.29
6	1st class Fly Ash brick masonry work in superstructure thoroughly soaked in water, with cement mortar (1:6) including scaffoldings ,racking out joints, curing etc complete as per specification/drawing and as per the direction of the Engineer-in-charge.				
	(i) Ground Floor	14.260	Cum.	5,647.05	80,526.93
7	Providing and Laying reinforcement Cement concrete (M-20) with 20 mm and down graded chips including cost all materials,labours,T & P,curing etc complete (excluding the cost of reinforcement & Centering, shuttering) as per direction of Engineer-in-charge.				
	(a) Column Base				




Sl.	DESCRIPTION		QTY	UNIT	RATE	AMOUNT
						(Rs.)
	(i)	Ground Floor	6.260	Cum.	7,372.93	46,154.54
	(b)	Plinth Beam				
	(i)	Ground	3.400	Cum.	8,247.83	28,042.62
	(c)	Beam & Column				
	(i)	Ground Floor	3.080	Cum.	16,625.82	51,207.53
	(d)	65mm avg. Chajja				
	(i)	Ground Floor	9.000	Sqm.	1,275.61	11,480.49
	(e)	Roof Slab				
	(i)	Ground Floor	8.610	Cum.	14,459.38	1,24,495.26
	(f)	Lintel				
	(i)	Ground Floor	1.160	Cum.	15,027.12	17,431.46
8	Supplying, fitting and placing uncoated HYSD bar reinforcement complete in proper position including cost of binding wire 18 to 20 gauge as per direction of Engg.-in-Charge.					
	(i)	Ground Floor	24.150	Qtl	9,065.07	2,18,921.44
9	12mm cement plaster in cement mortar (1:6) including necessary scaffolding curing etc. as per direction of Engg.-in-Charge.					
	(i)	Ground Floor	146.010	Sqm	195.30	28,515.75
10	16mm thick cement plaster in cement mortar (1:6) including necessary scaffolding curing etc. as per direction of Engg.-in-Charge.					
	(i)	Ground Floor	79.020	Sqm	280.68	22,179.33
11	6mm.thick cement plaster with C.M(1:4) to RCC surface including closed deep chipping and slury treatment etc. complete as per direction of Engg.-in-Charge.					
	(i)	Ground Floor	79.240	Sqm	215.08	17,042.94
12	Fixing colour Vitrified tiles in floors (Printed Series) of size 600mm x600 mm of approved make conforming IS:13755 laid on 20 mm thick cement mortar (1:4) and filling joints with white cement of approved quality including cost of all materials, labour T&P etc rrequired for the work all completeas per direction of Engineer-in-charge.					



Sl.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (Rs.)
	(i) Ground Floor	50.000	Sqm	1,191.36	59,568.00
13	Fixing Vitrified tiles in dados (Printed Series) skirting and risers of stepson 12 mm thick cement plaster(1:3) jointed with neat cement slurry mixed with pigments to matche shade of the tiles including rubbing and polishing complete as per direction of Engineer-in-charge.				
	(i) Ground Floor	4.500	Sqm	1,801.27	8,105.72
14	Supply ,Fixing Vitrified industrial Tile of premium grade having thickness 8mm to 10mm conforming to IS 4457 of size 300mmx300mm in floors,treads or steps and landings on 25 mm thick CM (1:1) jointed with neat cement slurry mixed with pigments to match the shades includind cost for rubbing, polishing & cost of marbel tiles etc. complete as per direction of Engg-in-Charge .				
	(i) Ground Floor	6.200	Sqm	1,314.92	8,152.50
15.	Wall Priming one coats on new work with wall water bound primer of approved shade as per direction of Engg-in-Charge .				
	(i) Ground Floor	299.770	Sqm	77.91	23,355.08
16.	Wall painting two coats on new work with Distemper of approved shade etc. complete as per direction of Engg-in-Charge .				
	(i) Ground Floor	138.520	Sqm	90.65	12,556.84
17.	Wall painting two coats on new work with Weather coat paint of approved shade as per direction of Engg.-in-Charge.				
	(i) Ground Floor	161.250	Sqm	98.05	15,811.05
18.	Supplying and fixing of steel M.S. grill with all fitting and fixtures including cost of cutting holes in the brick masonry and R.C.C. columns and making good to damage etc, as per direction of Engineer -in -charge.				
	(i) Ground	549.000	Kg.	175.12	96,140.88
19	Eamel Painting two coats with enamel paint over one coat of primer of approved quality etc. complete as per direction of Engg-in-Charge .				
	(i) Ground Floor	25.380	Sqm	269.05	6,828.49
20	20mm. thick grading plaster in c.m. 1:4 over roof slab and chujja including cost conveyance and royalty of materials curing etc. complete as per direction of Engg-in-Charge .				



Sl.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (Rs.)
	(i) Ground Floor	68.910	Sqm	304.60	20,989.66
21	Supplying , fitting and fixing of two Track UPVC sliding window of approved make with 6mm thick glass of approved quality complete with frame, shutters and all fitting and fixtures etc. complete as per direction of Engg-in-Charge . as per SR-2022, Page No.-235, Sl. No.-12				
	(i) All Floors	2.990	Sqm.	4,960.97	14,833.30
22	Supplying, fitting and fixing of 5.5 mm thick hexagonal Aluminum jally in windows as single groove, double groove and tapered clip as horizontal and vertical members for fixing of aluminum jally and jointing angle conforming to standard Aluminium sections etc. complete etc. complete as per direction of Engg-in-Charge . as per SR-2022, Page No.-234, Sl. No.-10				
	(i) All Floors	4.140	Sqm.	1,841.00	7,621.74
<b>Subtotal (A)</b>					<b>Rs. 11,76,134.54</b>

  
**Er. PREM PRAKASH SAHU C Eng(I)**  
 M. Tech. (Structural Engg.)  
 143, Nageswartangi, Bhubaneswar-2  
 Membership No.- AM1917156  
 The Institution of Engineers (I)

  
**Asst. Executive Engineer**  
 R.W.Sub.Dvn.Rajnagar

Sl.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (Rs.)
	<b>PART(B) - Internal electrification</b>				
23	Recessed wiring to light point / fan point / exhaust fan point / call bell point with 1.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked with 20 mm dia non-metalic PVC flexible conduit with 5 Amp, 250 V modular type switch ISI marked and ceiling rose ISI marked mounted on MS box having front modular cover of suitable size , MS modular box with 1.0 sq.mm FR PVC insulated single core multistrand copper conductor as earth wire including all accesories and connection as per direction of Engineer in Charge. ( Make of wire Finolex / L&T / Anchor / Havels / V Guard )				
	i Group-A	5.000	Point	553.08	2,765.40
	ii Group-B	5.000	Point	851.27	4,256.35
	iii Group-C	5.000	Point	1,230.25	6,151.25
24	Supplying and fixing of following MODULAR type Bell push on the existing switch box / cover including connections etc as required. as per direction of Engineer in Charge. ( Make of wire Finolex / L&T / Anchor / Havels / V Guard )				
	all floor	1.000	Point	137.86	137.86
25	Recessed wiring to submain in 2 x 2.5 sq.mm FR PVC insulated single core multistrand copper conductor o f ISI marked confirming to IS-694/1990 in 20 mm dia non-metalic heavy duty flexible conduit 1.6 mm thick along with 1 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor as earth wire as equired.(Make of wire Finolex/L&T/Anchor/Havels/V Guard)				
	all floor	25.000	mt	173.23	4,330.75



Sl.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
					(Rs.)
26	Recessed wiring to submain in 2 x 4 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked confirming to IS-694/1990 in 20 mm dia non-metallic heavy duty flexible conduit 1.6 mm thick along with 1 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor as earth wire as required.(Make of wire Finolex/L&T/Anchor/Havels/V Guard)				
	Ground Floor + 1st Floor+ 2nd Floor	30.000	mt	190.60	5,718.00
27	Recessed wiring to submain in 2 x 6 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked confirming to IS-694/1990 in 20 mm dia non-metallic heavy duty flexible conduit 1.6 mm thick along with 1 x 2.5 sq.mm FR PVC insulated single core multistrand copper conductor as earth wire as required.(Make of wire Finolex/L&T/Anchor/Havels/V Guard)				
	all floor	6.000	mt	221.68	1,330.08
28	Supply and fixing of 3 no.sof 3pin 5/6 amp modular socket and S.P. 5/6 amp one way modular switch, 1 no. of 5 pin 15/16 socket out let and S.P. 15/16 A one way modular switch on Modular G.I. Box with Modular Base and cover (Make of wire Finolex/L&T/Anchor/Havels/V Guard)				
	all floor	2.000	Point	1,619.35	3,238.70
29	Supply and fixing of 3 pin 6Amp plug with 6Amp switch on existing board (Modular type ).(Make of wire Finolex/L&T/Anchor/Havels/V Guard)				
	all floor	10.000	Point	244.00	2,440.00
30	Supply and fixing of following way single pole and neutral, sheet steel, MCB distribution board consumer unit, 240 V on surface / recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, hinged front acrylic covr for the MCB knobs detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required ( But with out MCB / RCCB / Isolator) - 12 Way				
	all floor	1.000	No	1,153.79	1,153.79



Sl.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
					(Rs.)
31	Supply and fixing of 5Amp to 32A rating 240V "B/C" series MCB suitable for lighting and other loads of the following poles in the exiting MCB DB ISI marked complete with connections testing and commissioning etc. as required.(make-HPL/ Havells/ Legrand /L&T/C&S)				
	all floor	12.000	No	144.47	1,733.64
32	Earthing with G.I earth pipe 3 meter long 40 mm dia ISI marked including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc with charcoal and salt as required.(make-HPL/ Havells/ Legrand /L&T/C&S)				
	all floor	1.000	No	2,809.54	2,809.54
33	S/F of 1200mm High Speed Ceiling fan Alluminium Body, Copper winding, High speed ceiling fan (Make-Crompton Model-Riviera High Speed, Polycab Model-Vital, Polar Model-Winpro) etc.				
	all floor	3.000	No	2,622.04	7,866.12
34	Supplying and fixing of Stepped type modular fan regulator on existing switch box / cover including connections etc as required.(make-Anchor/cona/Havells/Polycab etc.)				
	all floor	3.000	No	305.43	916.29
35	S/F of 8" PLASTIC VENTILLATING FAN exhaust fan (Make-Crompton Model-Jura, Polycab Model-Vital, Polar Model-Winpro) etc.				
	all floor	2.000	No	2,424.14	4,848.28
36	S/F of 1x18 Watt LED T-5 fitting(Make-Crompton/Philips/Havells/Bajaj)				
	all floor	8.000	No	900.00	7,200.00
37	MV cable laying up to 10 sq.mm 2core on surface Laying and fixing of one number of PVC insulated and PVC seathed / XLPE power cable of 1.1 KV grade of size not exceeding 20 sq.mm on surface as required.				
	all floor	12.000	mt.	215.48	2,585.80



Sl.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
					(Rs.)
38	S/F of 18 Watt LED Square surface mount fitting (Make-Havells/Philips/C&S/Crompton) as required.	4.000	Each	1,244.51	4,978.04
39	Supply, Installation, Testing, and Commissioning of 63 Amp TPN Main switches of following capacity (IS 13940 Part 3/1993 ) on existing surface / wall mounting and complete with HRC Fuse links, interconnections, earthing, etc. as required as per direction of Engineer in Charge. Make SEIMENS/HPL/ ANCHOR/L&T/ HAVELS/C & S/ RK	1.000	each	937.14	937.14
	<b>Subtotal (B)</b>			<b>Rs.</b>	<b>65,397.03</b>



**Er. PREM PRAKASH SAHU C Eng(I)**  
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## Details Estimate for Construction of Malkhana at Sansariphal under Rajnagar W L Range , Dist- Kendrapada

### PART-A ( Civil work )

(Center line Method)

**a** Ground Floor

horizontal line	4 x	5.250m	=	21.000m
Vertical line	2 x	10.250m	=	20.500m
			=	41.500m
Outside Wall	2 x	5.250m	=	10.500m
	2 x	10.250m	=	20.500m
			=	31.000m

- 1 Foundation excavation in Earth work in hard soil within 50m. Initial lead and 1.5m initial lift including rough dressing and breaking clods to maximum 5cm to 7cm and laying in layer not exceeding 0.3m in depth and as per specification approved by the department etc. complete.etc. complete as per direction of Engg-in-Charge .

outside F &P	1 x	31.000 m. x	0.600 m. x	0.600m =	11.160 Cum.
Footing F1	8 x	1.500 m. x	1.500 m. x	1.500m =	27.000 Cum.

Total Nos. 8

Deduction

Footing F1	8 x	1.500 m. x	0.600 m. x	0.600m =	-4.320 Cum.
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Total = 33.840 Cum.

= 33.840 Cum.

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

complete as per direction of Engg.-in-Charge.

outside F &P	1 x	31.000 m. x	0.600 m. x	0.150m =	2.790 Cum.
Footing F1	8 x	1.500 m. x	1.500 m. x	0.150m =	2.700 Cum.
Add for Plinth					
Godown	1 x	5.000 m. x	10.000 m. x	0.750m =	37.500 Cum.
Entry	1 x	3.300 m. x	1.750 m. x	0.750m =	4.330 Cum.



CC Road	1 x	9.200 m. x	3.600 m. x	0.100m =	3.310 Cum.
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**Deduction**

Footing F1	8 x	1.500 m. x	0.600 m. x	0.150m =	-1.080 Cum.
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Total =	49.550 Cum.
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= 49.550 Cum.

- 3 Cement concrete (1:3:6) with 40mm size CBHG metal including cost, conveyance and royalty etc. complete as per direction of Engg.-in-Charge.**

outside F & P	1 x	31.000 m. x	0.600 m. x	0.150m =	2.790 Cum.
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Footing F1	8 x	1.500 m. x	1.500 m. x	0.150m =	2.700 Cum.
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Add for flooring

Godown	1 x	5.000 m. x	10.000 m. x	0.125m =	6.250 Cum.
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Entry	1 x	3.300 m. x	1.750 m. x	0.125m =	0.720 Cum.
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CC Road	1 x	9.200 m. x	3.600 m. x	0.100m =	3.310 Cum.
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**Deduction**

Footing F1	8 x	1.500 m. x	0.600 m. x	0.150m =	-1.080 Cum.
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Total =	14.690 Cum.
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= 14.690 Cum.

- 4 Cement Concrete (1:2:4) with 12 mm size broken hard granite chips for R.C.C. works including hoisting and laying etc. complete as per direction of Engg.-in-Charge**

Floor	1 x	5.000 m. x	10.000 m. x	0.050m =	2.500 Cum.
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CC Road	1 x	9.200 m. x	3.600 m. x	0.075m =	2.480 Cum.
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Total =	4.980 Cum.
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= 4.980 Cum.

- 5 Fly Ash Brick masonry in c.m. 1:6 in F & P including cost, conveyance and royalty of materials curing etc. complete, as per the direction of the Engineer-in-charge.**

1st Footing-out side	1 x	31.000 m. x	0.375 m. x	0.250m =	2.900 Cum.
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2nd Footing-out side	1 x	31.000 m. x	0.250 m. x	0.250m =	1.930 Cum.
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GL to PL all	1 x	41.500 m. x	0.250 m. x	0.250m =	2.590 Cum.
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**Step**

1st Footing	1 x	3.000 m. x	1.200 m. x	0.150m =	0.540 Cum.
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2nd Footing	1 x	3.000 m. x	0.900 m. x	0.150m =	0.400 Cum.
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3rd Footing	1 x	3.000 m. x	0.600 m. x	0.150m =	0.270 Cum.
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**Deduction :-**

at column                      8 x                      0.450 m. x                      0.300 m. x                      0.750m =                      -0.810 Cum.

Total = 7.820 Cum.

7.820 Cum.

- 6 1st class Fly Ash brick masonry work in superstructure thoroughly soaked in water, with cement mortar (1:6) including scaffoldings ,racking out joints, curing etc complete as per specification/drawing and as per the direction of the Engineer-in-charge.**

**a Ground Floor**

**250mm wall**

<b>horizontal line</b>	2 x	5.250m	=	10.500m
<b>Vertical line</b>	2 x	10.250m	=	20.500m

$$= 31.000 \text{ m}$$

250mm wall	1 x	31.000 m. x	0.250 m. x	2.750m =	21.310 Cum.
windows box	2 x	1.350 m. x	0.075 m. x	1.350m =	0.270 Cum.

Deduction (-)

Columns C1      8 x      0.300 m. x      0.375 m. x      2.750m =      -2.470 Cum.

## Deduction (-)

Shutter 1 x 3.000 m. x 0.250 m. x 2.400m = -1.800 Cum.

W1                      2 x      1.200 m. x    0.250 m. x    1.350m =                      -0.810 Cum.

$$V = 8 \times 1.200 \text{ m.} \times 0.250 \text{ m.} \times 0.450 \text{ m} = -1.080 \text{ Cum.}$$

Lintel = -1.160 Cum.

Net	<u>14.260</u>	Cum.
	=	

14.260 Cum.

- 7 Providing and Laying reinforcement Cement concrete (M-20) with 20 mm and down graded chips including cost all materials,labours,T & P,curing etc complete (excluding the cost of reinforcement & Centering, shuttering) as per direction of Engineer-in-charge.

a Ground floor

(i) Column Base

Footings F1	8 x	1.500 m. x	1.500 m. x	0.300m =	5.400 Cum.
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**Pedestal**

Footing F1      8 x      0.600 m. x      0.600 m. x      0.300m =      0.860 Cum.

Total= 6.260 Cum.

6.260 Cum.

(ii) Plinth Beam / Tie Beam at GL

X axis      4 x      6.250 m. x      0.250 m. x      0.300m =      1.870 Cum.



Y-axis 2 x 10.250 m. x 0.250 m. x 0.300m = 1.530 Cum.

3.400 Cum. 3.400 Cum.

(iii) Column & Beam

a Ground floor  
upto plinth

C1 8 x 0.300 m. x 0.375 m. x 1.650m = 1.480 Cum.

plinth to roof

C1 8 x 0.300 m. x 0.375 m. x 2.750m = 2.470 Cum.

Total Nos. 8 x

Roof Beam

x axis 4 x 6.250 m. x 0.250 m. x 0.300m = 1.870 Cum.

Y axis 2 x 10.250 m. x 0.250 m. x 0.250m = 1.280 Cum.

Deduction :-

common at lintel 8 x 0.250 m. x 0.250 m. x 0.150m = -0.070 Cum.

Total = 3.080 Cum.  
=

3.080 Cum.

(iv) 65mm avg. Chajja / Windows seal

a Ground Floor

Chajja

W1 2 x 1 x 1.500 m. x 0.300m = 0.900 Sqm.

V 8 x 1 x 1.500 m. x 0.300m = 3.600 Sqm.

Windows seal

W1 2 x 1 x 1.500 m. x 0.300m = 0.900 Sqm.

V 8 x 1 x 1.500 m. x 0.300m = 3.600 Sqm.

9.000 Sqm.  
=

9.000 Sqm.

(v) Roof Slab

a Ground floor

Roof Slab 1 5.800 m. x 10.800 m. x 0.125m = 7.830 Cum.

Entry 1 3.300 m. x 1.900 m. x 0.125m = 0.780 Cum.

Net Total= 8.610 Cum.

= 8.610 Cum.

(vi) Lintel

a Ground Floor

Lintel-250mm wall 1 x 31.000 m. x 0.250 m. x 0.150m = 1.160 Cum.

Total = 1.160 Cum.  
= **1.160 Cum.**

- 8 Supplying, fitting and placing uncoated HYSD bar reinforcement complete in proper position including cost of binding wire 18 to 20 gauge as per direction of Engg.-in-Charge.**

**a Ground floor**

(i) Column Base	6.26Cum.x	#0.80 Qtl/ Cum	5.000 qtl	
(ii) Tie Beam	3.40Cum.x	# 1.20 Qtl/Cum	4.080 qtl	
(iii) Column & Beam	3.08Cum.x	# 1.76 Qtl/Cum	5.420 qtl	
(iv) Chajja	0.58Cum.x	#0.90 Qtl/Cum	0.520 qtl	
(v) Roof Slab	8.61Cum.x	#0.90 Qtl/Cum	7.740 qtl	
(vi) Lintel	1.16Cum.x	#1.20 Qtl/Cum	1.390 qtl	
	1.05 %	<u>23.09Cum.x</u> Cum.	<u>24.150 qtl</u>	<b>24.150 Qtl.</b>

- 9 12mm cement plaster in cement mortar (1:6) including necessary scaffolding curing etc. as per direction of Engg.-in-Charge.**

**a Ground floor**

Out side wall

	2 x	1 x	5.500 m. x	3.925m =	43.170 Sqm.
	2 x	1 x	10.500 m. x	3.925m =	82.420 Sqm.
Entry	2 x	2 x	2.000 m. x	3.925m =	31.400 Sqm.
<u>Deduction</u>					
Shutter	1 x	1.00 x	3.000 m. x	2.400m =	-7.200 Sqm.
W1	2 x	0.50 x	1.200 m. x	1.350m =	-1.620 Sqm.
V	8 x	0.50 x	1.200 m. x	0.450m =	-2.160 Sqm.

146.010 Sqm.  
= **146.010 Sqm.**

- 10 16mm thick cement plaster in cement mortar (1:6) including necessary scaffolding curing etc. as per direction of Engg.-in-Charge.**

**a Ground floor**



Inside					
Godown	1 x	2 x	5.000 m. x	3.000m =	30.000 Sqm.
"	1 x	2 x	10.000 m. x	3.000m =	60.000 Sqm.
<u>Deduction</u>					
Shutter	1 x	1.00 x	3.000 m. x	2.400m =	-7.200 Sqm.
W1	2 x	0.50 x	1.200 m. x	1.350m =	-1.620 Sqm.
V	8 x	0.50 x	1.200 m. x	0.450m =	-2.160 Sqm.
					<hr/> 79.020 Sqm.

= 79.020 Sqm.

**11 6mm.thick cement plaster with C.M(1:4) to RCC surface**

including closed deep chipping and slury treatment etc.

complete as per direction of Engg.-in-Charge.

**a Ground floor****Ceiling & RCC work****Inside work**

Godown	1 x	1 x	5.000 m. x	10.000m =	50.000 Sqm.
Beam side	2 x	2 x	5.000 m. x	0.450m =	9.000 Sqm.
Beam side	1 x	2 x	10.000 m. x	0.250m =	5.000 Sqm.

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64.000 Sqm.**Outside work**

Chajja , Projections &amp; Portico

Entty slab	1 x	1 x	3.300 m. x	2.000m =	6.600 Sqm.
W1	2 x	2 x	1.200 m. x	0.600m =	2.880 Sqm.
V	8 x	2 x	1.200 m. x	0.300m =	5.760 Sqm.

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15.240 Sqm.

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79.240 Sqm.

= 79.240 Sqm.

**12 Fixing colour Vitrified tiles in floors (Printed Series) of size 600mm x600 mm of approved make conforming IS:13755 laid on 20 mm thick cement mortar (1:4)and filling joints with white cement of approved quality including cost of all materials, labour T&P etc rrequired for the work all completeas per direction of Engineer-in-charge.****a Ground floor**

Godown	1 x	1 x	5.000 m. x	10.000m =	50.000 Sqm.
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 50.000 Sqm.

= 50.000 Sqm.

- 13 Fixing Vitrified tiles in dados (Printed Series) skirting and risers of stepson 12 mm thick cement plaster(1:3) jointed with neat cement slurry mixed with pigments to matche shade of the tiles including rubbing and polishing complete as per direction of Engineer-in-charge.

a Ground floor

Godown 1 x 1 x 30.000 m. x 0.150m = 4.500 Sqm.

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 4.500 Sqm.

= 4.500 Sqm.

- 14 Supply ,Fixing Vitrified industrial Tile of premium grade having thickness 8mm to 10mm conforming to IS 4457 of size 300mmx300mm in floors,treads or steps and landings on 25 mm thick CM (1:1) jointed with neat cement slurry mixed with pigments to match the shades includind cost for rubbing, polishing & cost of marbel tiles etc. complete as per direction of Engg-in-Charge .

a Ground floor

Entry 1 x 1 x 3.100 m. x 2.000m = 6.200 Sqm.

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 6.200 Sqm.

= 6.200 Sqm.

- 15 Wall Priming one coats on new work with wall water bound primer of approved shade as per direction of Engg-in-Charge .

a Ground floor

Same as 12 mm cement plaster = 146.010 Sqm.

Same as 16 mm cement plaster = 79.020 Sqm.

Same as 6 mm cement plaster = 79.240 Sqm.

Deduction:-

Same as dados of vitrified = -4.500 Sqm.

Total = 

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 299.770 Sqm. 299.770 Sqm.



- 16 Wall painting two coats on new work with Distemper of approved shade etc. complete as per direction of Engg-in-Charge .**

**a Ground floor**

Same as 16 mm inside cement plaster = 79.020 Sqm.

Same as 6 mm inside cement plaster = 64.000 Sqm.

**Deduction:-**

Same as dados of vitrified item -4.500 Sqm.

Total = 138.520 Sqm.

= 138.520 Sqm.

- 17 Wall painting two coats on new work with Weather coat paint of approved shade as per direction of Engg-in-Charge.**

**a Ground floor**

Same as 12 mm outside cement plaster = 146.010 Sqm.

Same as 6 mm cement plaster out side = 15.240 Sqm.

Total = 161.250 Sqm.

= 161.250 Sqm.

- 18 Supplying and fixing of steel M.S. grill with all fitting and fixtures including cost of cutting holes in the brick masonry and R.C.C. columns and making good to damage etc, as per direction of Engineer -in -charge.**

**a Ground floor**

Shutter 1 x 3.000 m. x 2.400m = 7.200 Sqm.

Total = 7.200 Sqm.

50.00 Kg/Sqm = 360.000 Kg.

W1 2 x 1.200 m. x 1.350m = 3.240 Sqm.

V1 8 x 1.200 m. x 0.450m = 4.320 Sqm.

Total = 7.560 Sqm.

25.00 Kg/Sqm = 189.000 Kg.

549.000 Kg.

- 19 Eamel Painting two coats with enamel paint over one coat of primer of approved quality etc. complete as per direction of Engg-in-Charge .**

**a** Ground floor

Shutter	1 x	3.00 x	3.000 m. x	2.400m =	21.600 Sqm.
W1	2 x	0.50 x	1.200 m. x	1.350m =	1.620 Sqm.
V1	8 x	0.50 x	1.200 m. x	0.450m =	2.160 Sqm.

Total = 25.380 Sqm.  
= 25.380 Sqm.

- 20 20mm. thick grading plaster in c.m. 1:4 over roof slab and chujja including cost conveyance and royalty of materials curing etc. complete as per direction of Engg-in-Charge .

**a** Ground floor

roof	1 x	5.800 m. x	10.800m =	62.640 Sqm.
entry	1 x	3.300 m. x	1.900m =	6.270 Sqm.

Total = 68.910 Sqm. 68.910 Sqm.

- 21 Supplying , fitting and fixing of two Track UPVC sliding window of approved make with 6mm thick glass of approved quality complete with frame. shutters and all fitting and fixtures etc. complete as per direction of Engg-in-Charge .

as per SR-2022, Page No.-235, Sl. No.-12

**a** all floors

W1	2 x	1 x	1.150 m. x	1.300m =	2.990 Sqm.
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Total = 2.990 Sqm.  
= 2.990 Sqm.

- 22 Supplying, fitting and fixing of 5.5 mm thick hexagoanal Aluminum jally in windows as single groove, double groove and tapered clip as horizontal and vertical members for fixing of aluminum jally and jointing angle conforming to standard Aluminium sections etc. complete etc. complete as per direction of Engg-in-Charge .

as per SR-2022. Page No.-234. Sl. No.-10

**a** all floors

V	8 x	1 x	1.150 m. x	0.450m =	4.140 Sqm.
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Total = 4.140 Sqm.



Page 10

= 4.140 Sqm.

**PART(B) - Internal electrification**

- 23 Recessed wiring to light point / fan point / exhaust fan point / call bell point with 1.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked with 20 mm dia non-metalic PVC flexible conduit with 5 Amp, 250 V modular type switch ISI marked and ceiling rose ISI marked mounted on MS box having front modular cover of suitable size , MS modular box with 1.0 sq.mm FR PVC insulated single core multistrand copper conductor as earth wire including all accesories and connection as per direction of Engineer in Charge. ( Make of wire Finolex / L&T / Anchor / Havels / V Guard )**

**i Group-A**all floors

Fan Point	3.00	Point
Light Point	2.00	Point

Total	5.00	Point	=	5.00	Point
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**ii Group-B**all floors

Fan Point	3.00	Point
Light Point	2.00	Point

Total	5.00	Point	=	5.00	Point
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**iii Group-C**all floors

Fan Point	3.00	Point
Light Point	2.00	Point

Total	5.00	Point	=	5.00	Point
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- 24 Supplying and fixing of following MODULAR type Bell push on the existing switch box / cover including connections etc as required. as per direction of Engineer in Charge. ( Make of wire Finolex / L&T / Anchor / Havels / V Guard )**

all floors

1.00	Point
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Total	1.00	Point	=	1.00	Point
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- 25 Recessed wiring to submain in 2 x 2.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked confirming to IS-694/1990 in 20 mm dia non-metallic heavy duty flexible conduit 1.6 mm thick along with 1 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor as earth wire as required.(Make of wire Finolex/L&T/Anchor/Havels/V Guard)

all floors 25.00 mt.

Total 25.00 mt. = 25.00 mt.

- 26 Recessed wiring to submain in 2 x 4 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked confirming to IS-694/1990 in 20 mm dia non-metallic heavy duty flexible conduit 1.6 mm thick along with 1 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor as earth wire as required.(Make of wire Finolex/L&T/Anchor/Havels/V Guard)

all floors 30.00 mt.

Total 30.00 mt. = 30.00 mt.

- 27 Recessed wiring to submain in 2 x 6 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked confirming to IS-694/1990 in 20 mm dia non-metallic heavy duty flexible conduit 1.6 mm thick along with 1 x 2.5 sq.mm FR PVC insulated single core multistrand copper conductor as earth wire as required.(Make of wire Finolex/L&T/Anchor/Havels/V Guard)

all floor 6.00 mt.

Total 6.00 mt. = 6.00 mt.

- 28 Supply and fixing of 3 no.sof 3pin 5/6 amp modular socket and S.P. 5/6 amp one way modular switch, 1 no. of 5 pin 15/16 socket out let and S.P. 15/16 A one way modular switch on Modular G.I. Box with Modular Base and cover (Make of wire Finolex/L&T/Anchor/Havels/V Guard)

all floor 2.00 Point

Total 2.00 Point = 2.00 Point

- 29 Supply and fixing of 3 pin 6Amp plug with 6Amp switch on existing board (Modular type ).(Make of wire Finolex/L&T/Anchor/Havels/V Guard)

all floors 10.00 Point

		Total	10.00	Point	=	10.00	Point
30	Supply and fixing of following way single pole and neutral, sheet steel, MCB distribution board consumer unit, 240 V on surface / recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, hinged front acrylic covr for the MCB knobs detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required ( But with out MCB / RCCB / Isolator) - 12 Way all floors		1.00	No			
		Total	1.00	No	=	1.00	Nos
31	Supply and fixing of 5Amp to 32A rating 240V "B/C" series MCB suitable for lighting and other loads of the following poles in the exiting MCB DB ISI marked complete with connections testing and commissioning etc. as required.(make-HPL/ Havells/ Legrand /L&T/C&S) all floors		12.00	No			
		Total	12.00	No	=	12.00	Nos
32	Earthing with G.I earth pipe 3 meter long 40 mm dia ISI marked including accessories and providing masonry enclosure with cover plate having locking arrangment and watering pipe etc with charcoal and salt as required.(make-HPL/ Havells/ Legrand /L&T/C&S)		1.00	No			
		Total	1.00	No	=	1.00	Nos
33	S/F of 1200mm High Speed Ceiling fan Alluminium Body, Copper winding, High speed ceiling fan (Make-Crompton Model-Riviera High Speed, Polycab Model-Vital, Polar Model-Winpro) etc. all floor		3.00	No			
		Total	3.00	No	=	3.00	Nos
34	Supplying and fixing of Stepped type modular fan regulator on existing switch box / cover including connections etc as required.(make-Anchor/cona/Havells/Polycab etc.)						



as per qty of ceiling fan					3.00	Nos
35	S/F of 8" PLASTIC VENTILLATING FAN exhaust fan (Make-Crompton Model-Jura, Polycab Model-Vital, Polar Model-Winpro) etc. all floors	2.00	No			
	Total	2.00	No	=	2.00	Nos
36	S/F of 1x18 Watt LED T-5 fitting(Make- Crompton/Philips/Havells/Bajaj) All floors	8.00	No			
	Total	8.00	No	=	8.00	Nos
37	<u>MV cable laying up to 10 sq.mm 2core on surface</u> Laying and fixing of one number of PVC insulated and PVC seathed / XLPE power cable of 1.1 KV grade of size not exceeding 20 sq.mm on surface as required.	12.00	mt			
	Total	12.00	mt	=	12.00	mt
38	S/F of 18 Watt LED Square surface mount fitting (Make- Havells/Philips/C&S/Crompton) as required.	4.00	Each			
	Total	4.00	Each	=	4.00	Each
39	Supply, Installation, Testing, and Commissioning of 63 Amp TPN Main switches of following capacity (IS 13940 Part 3/1993 ) on existing surface / wall mountnting and complete with HRC Fuse links, interconnections, earthing, etc. as required as per direction of Engineer in Charge. Make SEIMENS/HPL/ ANCHOR/L&T/ HAVELS/C & S/ RK				1.00	No.

Er. PREM PRAKASH SAHU C Eng(I)  
 M. Tech. (Structural Engg.)  
 143, Nageswartangi, Bhubaneswar-2  
 Membership No.- AM1917156  
 The Institution of Engineers (I)

29.5.25  
 Asst. Executive Engineer  
 R.W. Sub. Dvn. Rajnagar



**LEAD STATEMENT**  
( As per SR - 2022 )(Kendrapada District)

Name of the Work :-

Construction of Malkhana at Sansaraphal under Rajnagar W L Range, Dist- Kendrapada

Name of the District :-

Kendrapada

Name of the Block -

Rajnagar

Sl. No	Name of the Materials	Location of Quarry	Unit	Lead in KM	Cost As per S/R	Cost of Transportation for 1st 5km.	Cost of Transportation next 45km.	for	Cost of Transportation for beyond 50km.	Total Cost of Transportation	Royalty	DMF 10 %	EMF 5 %	Addl. Charges	Royalty
1.	Sand for Filling from local	Derabis	Cum	40	71.94	276.01	35	kms. x 13.02 =	455.70	0	kms. x 9.20 =	0.00	731.71	35.00	230.25
2.	Sand (screened and washed)	Derabis	Cum	40	76.88	276.01	35	kms. x 13.02 =	455.70	0	kms. x 9.20 =	0.00	731.71	35.00	230.25
3.	40mm size Crusher B.G. Metal -do-	Baghua	Cum	90	940.60	276.01	45	kms. x 13.02 =	585.90	40	kms. x 9.20 =	368.00	1229.91	130.00	444.50
4.	4.7 mm size CBG chips	Baghua	Cum	90	850.20	276.01	45	kms. x 13.02 =	585.90	40	kms. x 9.20 =	368.00	1229.91	130.00	444.50
5.	6.7 mm size CBG chips	Baghua	Cum	90	950.10	276.01	45	kms. x 13.02 =	585.90	40	kms. x 9.20 =	368.00	1229.91	130.00	444.50
6.	10 mm size CBG chips	Baghua	Cum	90	1415.10	276.01	45	kms. x 13.02 =	585.90	40	kms. x 9.20 =	368.00	1229.91	130.00	444.50
7.	12 mm size CBG chips	Baghua	Cum	90	1386.40	276.01	45	kms. x 13.02 =	585.90	40	kms. x 9.20 =	368.00	1229.91	130.00	444.50
8.	20 mm size CBG chips	Baghua	Cum	90	1382.29	276.01	45	kms. x 13.02 =	585.90	40	kms. x 9.20 =	368.00	1229.91	130.00	444.50
9.	Flyash Bricks	Local	1000	5	5030.50	864.10	0	kms. x 29.46 =	0.00	0	kms. x 23.69 =	0.00	864.10		
10.	White Cement	Local	1 Qtl	5	2006.00	24.78	0	kms. x 1.18 =	0.00	0	kms. x 1.01 =	0.00	24.78		
11.	Cement-43 grade	Local	1 Qtl	5	546.87	24.78	0	kms. x 1.18 =	0.00	0	kms. x 1.01 =	0.00	24.78		
12.	Steel HYSD (FE-415)	Jatni	1 Qtl	5	6794.47	24.78	0	kms. x 1.18 =	0.00	0	kms. x 1.01 =	0.00	24.78		
13.	Sal wood flanks	Local	Cum	5	53035.75	198.30	0	kms. x 9.51 =	0.00	0	kms. x 8.08 =	0.00	198.30		
14.	Non - sal wood flanks	Local	Cum	5	58374.79	198.30	0	kms. x 9.51 =	0.00	0	kms. x 8.08 =	0.00	198.30		
15.	75 to 120 mm sal bullah upto 5.50m	Local	Rntr	5	51.87	0.88	0	kms. x 0.04 =	0.00	0	kms. x 0.04 =	0.00	0.88		
16.	75 mm non sal bullah any length	Local	Rntr	5	30.81	0.88	0	kms. x 0.04 =	0.00	0	kms. x 0.04 =	0.00	0.88		
17.	100 mm non sal bullah any length	Local	Rntr	5	41.81	1.56	0	kms. x 0.07 =	0.00	0	kms. x 0.06 =	0.00	1.56		
18.	125 mm non sal bullah any length	Local	Rntr	5	41.81	2.43	0	kms. x 0.12 =	0.00	0	kms. x 0.10 =	0.00	2.43		
19.	Sal wood planks not more than 75mm	Local	Sqm	5	4787.93	14.87	0	kms. x 0.71 =	0.00	0	kms. x 0.61 =	0.00	14.87		
20.	Non - sal plank	Local	Cum	5	58374.79	198.30	0	kms. x 9.51 =	0.00	0	kms. x 8.08 =	0.00	198.30		
21.	Piasalwood plank	Local	Cum	5	74369.67	198.30	0	kms. x 9.51 =	0.00	0	kms. x 8.08 =	0.00	198.30		
22.	Shell Lime	Local	Kg	5	24.19	0.248	0	kms. x 0.01 =	0.00	0	kms. x 0.010 =	0.00	0.25		
23.	Carrage of Wood	Local	Cum	5	0.00	149.20	0	kms. x 12.40 =	0.00	0	kms. x 10.64 =	0.00	149.20		
24.	All types of tiles	Patamundai	1 Sqm	15	0.00	9.60	10	kms. x .33 =	3.27	0	kms. x .26 =	0.00	12.87		
25.	Marble upto 0.10sqm	Patamundai	1 Sqm	15	550.60	9.60	10	kms. x .33 =	3.27	0	kms. x .26 =	0.00	12.87		
26.	Marble above 0.10 to 0.40sqm	Patamundai	1 Sqm	15	670.90	9.60	10	kms. x .33 =	3.27	0	kms. x .26 =	0.00	12.87		
27.	Marble above 0.40 to 1.0 sqm	Patamundai	1 Sqm	15	755.70	9.60	10	kms. x .33 =	3.27	0	kms. x .26 =	0.00	12.87		



28.	Granite upto 0.10 sqm(10mm)	Patamundai	1 Sqm	15	1175.60	9.60	10	kms. x .33 =	3.27	0	kms. x .26 =	0.00	12.87				
29.	Granite 0.10 upto 0.40 sqm (")	Patamundai	1 Sqm	15	1328.07	9.60	10	kms. x .33 =	3.27	0	kms. x .26 =	0.00	12.87				
30.	Granite above 0.40 sqm (20mm)	Patamundai	1 Sqm	15	2090.00	9.60	10	kms. x .33 =	3.27	0	kms. x .26 =	0.00	12.87				
31.	Glazed wall tile	Patamundai	1 Sqm	15	405.20	9.60	10	kms. x .33 =	3.27	0	kms. x .26 =	0.00	12.87				
32.	Glazed Floor tile	Patamundai	1 Sqm	15	450.08	9.60	10	kms. x .33 =	3.27	0	kms. x .26 =	0.00	12.87				
33.	Vitrified tile 600x600(plain)	Patamundai	1 Sqm	15	651.08	9.60	10	kms. x .33 =	3.27	0	kms. x .26 =	0.00	12.87				
34.	Vitrified tile 600x600(Printed)	Patamundai	1 Sqm	15	689.20	9.60	10	kms. x .33 =	3.27	0	kms. x .26 =	0.00	12.87				
35.	Industrial Vitrified tile	Patamundai	1 Sqm	15	578.35	9.60	10	kms. x .33 =	3.27	0	kms. x .26 =	0.00	12.87				
36.	Modified Clay Materials(MCM)	BBSR	1 Sqm	120	0.00	9.60	45	kms. x .33 =	14.73	70	kms. x .26 =	18.43	42.76				
37.	Binding wire	Local	Kg	5	90.10												
38.	Aluminium Extruction	Local	Kg	5	297.27												
39.	5mm Black Glass	Local	1 Sqm	5	705.01												
40.	12mm prelaminated novapan	Local	1 Sqm	5	709.20												
41.	6mm Plain glass	Local	1 Sqm	5	672.91												
42.	100mmx75mmx4mm hinges	Local	1 No.	5	56.09												

Certified that the lead-statement furnished above is shortest & minimum to the best of my knowledge & belief.

**E.P. PRAKASH SAHU C Eng (I)**

M. Tech. (Structural Engg.)

143, Nageswartangi, Bhubaneswar-2

Membership No.- AM1917155

The Institution of Engineers (I)

29.5.15

Asst. Executive Engineer  
R.W. Sub. Dvn. Rajnagar



# LABOUR STATEMENT

1. Mammulia	462.00 /day	9.	Carp 2 nd	562.00 /day
2. Womammulia	462.00 /day	10.	Painter (1 st)	612.00 /day
3. Stone Packer	512.00 /day	11.	Stone dresser	562.00 /day
4. Semiskilled Mulia	512.00 /day	12.	Helper	462.00 /day
5. Mate	512.00 /day	13.	Blacksmith	612.00 /day
6. Mason 1 st	612.00 /day	14.	Painter (1 st)	612.00 /day
7. Mason 2 nd	562.00 /day	15.	Painter (2nd)	562.00 /day
8. Carp 1 st	612.00 /day			

## HIRE CHARGES OF PLANTS AND MACHINERIES

1. Concrete mixer	229.55 /hour
2. Generator 33 KVA	700.00 /hour
3. Vibrator (3 HP)	153.20 /hour
4. Tractor Trolly	357.55 /hour

	TC	Basic rate	TC+BR
Wall cement primerWater bound(I.S.I.)	Ltr.	0.27	159.03
Cement Paint	Kg.	0.25	47.83
Distemper	Kg.	0.25	70.10
Plastic Emulsion Paint	Lit.	0.27	249.34
Enamel Paint	Lit.	0.27	205.34
Red Oxide Primer	Lit.	0.27	142.70
Wood Primer	Lit.	0.27	150.71
G.C.I.Sheet 0.40mm	Sqm.		333.12
A.C.Sheet	Sqm.		209.10
A.C.Ridges	Pair		202.03
6mm thick Plain A.C.Sheet	Sqm.		246.55
Weather coat	Kg.	0.27	191.35
			191.62

Average Rate of Steel for the Month	May-25
per pl per qd.	
8mm	8312.23
10mm	7991.96
12mm	7957.95
16mm	1505
20mm	2353
25mm	3678
with GST	8017.48
without GST	6794.47
	/Qd

*Blw*  
**EN.PREM PRAKASH SAHU C Eng(I)**  
 M. Tech. (Structural Engg.)  
 143, Nageswartangi, Bhubaneswar-2  
 Membership No.-AM1917156  
 The Institution of Engineers (I)

*Delip*  
 Asst. Executive Engineer  
 R.W.Sub. Dvn. Rajnagar



**ANALYSIS OF RATES****(As per SR - 2022 )(Kendrapada District)****NAME OF THE WORK : Construction of Malkhana at Sansariphal under Rajnagar W L Range , Dist- Kendrapada**

1. <b>Foundation excavation in hard soil including levelling and dressing the bed and sides depositing muck within initial lead and lift etc. complete as per direction of Engg-in-Charge .</b>									
(i)	Labour								
	Man mulia	-	21.50 Nos. @ Rs.	462.00	/each =	Rs.	9,933.00		
	Woman man mulia	-	21.50 Nos. @ Rs.	462.00	/each =	Rs.	9,933.00		
	Add 20 % for Foundation	-			Total	Rs.	19,866.00		
						Rs.	3,973.20		
(ii)	Add 15 % for OH & Contractors profit					Rs.	23,839.20		
						Rs.	3,575.88		
					Total	Rs.	27,415.08		
(iv)	Add for labour 1 % Cess					Rs.	27,415.08		
						Rs.	274.15		
					Total Rate/%Cum =	Rs.	27,689.23		
					Rate/Cum	Say	Rs.	276.89	
2. <b>Earth work by mechanical means borrowed from out side within 5km initial lead and 1.5m initial lift including levelling and dressing the bed and sides depositing muck within initial lead and lift etc. complete as per direction of Engg-in-Charge .</b>									
(i)	Labour								
	Man mulia	-	21.50 Nos. @ Rs.	462.00	/each =	Rs.	9,933.00		
	Woman man mulia	-	21.50 Nos. @ Rs.	462.00	/each =	Rs.	9,933.00		
	Add 15 % for OH & Contractors profit				Total	Rs.	19,866.00		
						Rs.	2,979.90		
					Total Rate/%Cum =	Rs.	22,845.90		
(iii)	Add 1st 5Km				per Cum.	Total =	Rs.	228.45	
	Add PRR	70cum/hr	524.70	/	70		Rs.	276.01	
	Deduct unloading		175.38	/	2/3		Rs.	7.49	
						(-)	Rs.	116.92	
(iv)	Royalty						Rs.	166.58	
							Rs.	43.25	
					Total Rate/Cum =	Rs.	438.28		
(vi)	Add for labour 1 % Cess					Rs.	4.38		
					Total Rate/Cum =	Rs.	442.66		
3. <b>Filling foundation and plinth with sand well watered and rammed including cost, conveyance and royalty of sand etc. complete as per direction of Engg-in-Charge .</b>									
(i)	Material -	Sand	-	100.00 Cum @ Rs.	71.94 /Cum. =	Rs.	7,194.00		
(ii)	Labour -	Woman man mulia	-	12.36 Nos. @ Rs.	462.00 /each =	Rs.	5,710.32		
(iii)	Transportation -	Sand	-	100.00 Cum @ Rs.	731.71 /Cum. =	Rs.	73,171.00		
(iv)	Royalty -	Sand	-	100.00 Cum @ Rs.	230.25 /Cum. =	Rs.	23,025.00		
(v)	Add 15 % for OH & Contractors profit					Rs.	1,935.64		
					For 100 Cum	Rs.	1,11,035.96		
					Rate/Cum	Rs.	1,110.35		
						Rs.	11.10		
					Total Rate/Cum =	Rs.	1,121.45		
(vii)	Add for labour 1 % Cess								
4. <b>Cement concrete 1:3:6 using 4cm. size HBG crusher broken metal including cost, conveyance and royalty of materials curing etc. complete as per direction of Engg-in-Charge .</b>									
(i)	Materials -								

**ANALYSIS OF RATES****(As per SR - 2022) (Kendrapada District)**

40mm Crusher Broken hard Granite	-	0.96 Cum @ Rs.	940.60 /Cum. = Rs.	902.97
Sand(screened and washed)	-	0.48 Cum @ Rs.	76.88 /Cum. = Rs.	36.90
Cement	-	2.29 Qntl. @ Rs.	546.87 /qntl. = Rs.	1,252.33
			Rs.	2,192.20
(ii) Labour -				
Mason 2 nd class	-	0.18 Nos. @ Rs.	562.00 /each = Rs.	101.16
Man mulia	-	2.50 Nos. @ Rs.	462.00 /each = Rs.	1,155.00
Woman man mulia	-	1.40 Nos. @ Rs.	462.00 /each = Rs.	646.80
			Rs.	1,902.96
(iii) Transportation -				
40mm Crusher Broken hard Granite Metal	-	0.96 Cum @ Rs.	1229.91 /Cum. = Rs.	1,180.71
Sand(screened and washed)	-	0.48 Cum @ Rs.	731.71 /Cum. = Rs.	351.22
Cement	-	2.29 Qntl. @ Rs.	24.78 /qntl. = Rs.	56.74
			Rs.	1,588.67
(iv) Royalty -				
CBG Metal 4cm.size	-	0.96 Cum @ Rs.	444.50 /Cum. = Rs.	426.72
Sand(screened and washed)	-	0.48 Cum @ Rs.	230.25 /Cum. = Rs.	110.52
			Rs.	537.24
(v) Add 15 % for OH & Contractors profit			Rs.	614.27
(vii) Add for labour 1 % Cess			Total Rate/Cum. = Rs.	6,835.34
			Rs.	68.35
			or say Rate/Cum. = Rs.	6,903.69
5. 1" thick D.P.C with C.C(1:2:4) using 12mm. Chips etc. complete as per direction of Engg-in-Charge .				
(i) a)Materials -				
12mm.size chips	-	0.023 Cum @ Rs.	1386.40 /Cum. = Rs.	31.88
Sand(screened and washed)	-	0.012 Cum @ Rs.	76.88 /Cum. = Rs.	0.92
Cement	-	0.0754 Qntl. @ Rs.	546.87 /MT = Rs.	41.23
			Rs.	74.03
(ii) b)Labour -				
Mason (Spl.)	-	0.103 Nos. @ Rs.	562.00 /each = Rs.	57.88
Man mulia	-	0.33 Nos. @ Rs.	462.00 /each = Rs.	152.46
Woman mulia	-	0.03 Nos. @ Rs.	36.00 /each = Rs.	1.08
			Rs.	211.42
(iii) c)Transportation -				
12mm.size chips	-	0.023 Cum @ Rs.	1229.91 /Cum. = Rs.	28.28
Sand(screened and washed)	-	0.012 Qntl. @ Rs.	731.71 /qntl. = Rs.	8.78
Cement	-	0.0754 MT @ Rs.	24.78 /Qt = Rs.	1.86
			Rs.	38.92
(iv) e)Royalty -				
12mm.size chips	-	0.023 Cum @ Rs.	444.50 /Cum. = Rs.	10.22
Sand(screened and washed)	-	0.012 Cum @ Rs.	230.25 /Cum. = Rs.	2.76
			Rs.	12.98
(v) Add 15 % for OH & Contractors profit			Rs.	42.81
<b>RATE FOR</b>				
(i)Ground Floor -			Total Rate/Sqm. = Rs.	380.16
(vii) Add Labour Cess 1%			Rs.	3.80
			Total Rate/Sqm. = Rs.	383.96
6. Cement Concrete (1:2:4) with 12 mm size broken hard granite chips for R.C.C. works including hoisting and laying etc. complete as per direction of Engg-in-Charge .				
(i) Materials -				



**ANALYSIS OF RATES****( As per SR - 2022 )(Kendrapada District)**

12mm.size chips	-	0.90 Cum @ Rs.	1386.40 /Cum. = Rs.	1,247.76
Sand(screened and washed)	-	0.45 Cum @ Rs.	76.88 /Cum. = Rs.	34.59
Cement	-	3.23 MT @ Rs.	546.87 /MT = Rs.	1,766.39
			<u>Rs.</u>	<u>3,048.74</u>
(ii) Labour -				
Mason (2nd Class )	-	0.68 Nos. @ Rs.	562.00 /each = Rs.	382.16
Man mulia	-	3.20 Nos. @ Rs.	462.00 /each = Rs.	1,478.40
Women Man mulia	-	1.40 Nos. @ Rs.	462.00 /each = Rs.	646.80
			<u>Rs.</u>	<u>2,507.36</u>
(iii) Transportation -				
12mm.size chips	-	0.90 Cum @ Rs.	1229.91 /Cum. = Rs.	1,106.91
Sand(screened and washed)	-	0.45 Qntl. @ Rs.	731.71 /qntl. = Rs.	329.26
Cement	-	3.23 MT @ Rs.	24.78 /Qt = Rs.	800.39
			<u>Rs.</u>	<u>2,236.56</u>
(iv) Royalty -				
12mm.size chips	-	0.90 Cum @ Rs.	444.50 /Cum. = Rs.	400.05
Sand(screened and washed)	-	0.45 Cum @ Rs.	230.25 /Cum. = Rs.	103.61
			<u>Rs.</u>	<u>503.66</u>
(v) Add 15 % for OH & Contractors profit			<u>Rs.</u>	<u>833.41</u>
			<b>Total Rate/Cum =</b>	<b>Rs. 9,129.73</b>
			<u>Rs.</u>	<u>91.29</u>
(vii) Add for labour 1 % Cess			<b>or say Rate/Cum. =</b>	<b>Rs. 9,221.02</b>
(A) Ground Floor				
(B) 1st Floor -				
(i) Rate of Ground Floor			<u>Rs.</u>	<u>9,129.73</u>
(ii) Add Labour 15 % extra	376.10	+	56.41	<u>Rs. 432.51</u>
			<u>Rs.</u>	<u>9,562.24</u>
(iv) Add for labour 1 % Cess			<u>Rs.</u>	<u>95.62</u>
			<b>or say Rate/Cum. =</b>	<b>Rs. 9,657.86</b>
(C) 2nd Floor -				
(i) Rate of First Floor			<u>Rs.</u>	<u>9,562.24</u>
(ii) Labour 15 % extra	432.51	+	64.87	<u>Rs. 497.38</u>
			<u>Rs.</u>	<u>10,059.62</u>
(iv) Add for labour 1 % Cess			<u>Rs.</u>	<u>4.97</u>
			<b>or say Rate/Cum. =</b>	<b>Rs. 10,064.59</b>
7. 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 as per direction of Engg-in-Charge .				
(A) Ground Floor				
Data for 15cum.				
(i) Materials -				
20mm.size chips	-	8.10 Cum @ Rs.	1382.29 /Cum. = Rs.	11,196.54
10mm.size chips	-	5.40 Cum @ Rs.	1415.10 /Cum. = Rs.	7,641.54
Sand(screened and washed)	-	6.75 Cum @ Rs.	76.88 /Cum. = Rs.	518.94
Cement	-	5.21 MT @ Rs.	5468.70 /MT = Rs.	28,491.92
			<u>Rs.</u>	<u>47,848.94</u>
(ii) Labour -				
Mate	-	0.86 Nos. @ Rs.	512.00 /each = Rs.	440.32
Mason (2nd Class )	-	1.50 Nos. @ Rs.	562.00 /each = Rs.	843.00
Man mulia	-	20.00 Nos. @ Rs.	462.00 /each = Rs.	9,240.00
			<u>Rs.</u>	<u>10,523.32</u>
(iii) Machinery -				

**ANALYSIS OF RATES****( As per SR - 2022 )(Kendrapada District)**

Concrete mixer(cap.0.40/0.28 cum.)	6.00 hours@ Rs.	229.55 /hour =	Rs.	1,377.30
Generator 33 KVA	6.00 hours@ Rs.	700.00 /hour =	Rs.	4,200.00
			Rs.	5,577.30
(iv) Transportation -				
Chips	13.50 Qntl. @ Rs.	1229.91 /qntl. =	Rs.	16,603.78
Sand(screened and washed)	6.75 Qntl. @ Rs.	731.71 /qntl. =	Rs.	4,939.04
Cement	5.21 MT @ Rs.	24.78 /Qt =	Rs.	1,291.03
			Rs.	22,833.85
(v) Royalty -				
20mm.size chips	8.10 Cum @ Rs.	444.50 /Cum. =	Rs.	3,600.45
10mm.size chips	5.40 Cum @ Rs.	444.50 /Cum. =	Rs.	2,400.30
Sand(screened and washed)	6.75 Cum @ Rs.	230.25 /Cum. =	Rs.	1,554.18
			Rs.	7,554.93
(vi) Add 15 % for OH & Contractors profit			Rs.	9,592.43
		Total Rate/15Cum =	Rs.	1,03,930.77
	Rate per 1 cum Rs.	1,03,930.77 / 15	=	Rs. 6,928.71 /cum
		Say	Rs.	6,928.70
(viii) Add Labour Cess 1%			Rs.	69.28
		Rate per 1 cum	Rs.	6,997.98
(B) 1st Floor -				
(i) Rate of Ground Floor			Rs.	6,928.70
(ii) Add Labour 15 % extra	105.23	+	15.78	Rs. 121.01
				Rs. 7,049.71
(iv) Add for labour 1 % Cess			Rs.	70.49
		or say Rate/Cum. =	Rs.	7,120.20
(C) 2nd Floor -				
(i) Rate of First Floor			Rs.	7,049.71
(ii) Labour 15 % extra	121.01	+	18.15	Rs. 139.16
				Rs. 7,188.87
(iv) Add for labour 1 % Cess			Rs.	71.88
		or say Rate/Cum. =	Rs.	7,260.75
8. 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 as per direction of Engg-in-Charge .				
(a) RCC floor and roof slab, landings, balconies, projecting, sunshades and chaja - Up to 4.3m.height -				
<u>Data for 9.00 Sqm.</u>				
(A) <u>Ground Floor</u>				
(i) Materials -				
Non sal wood scantling-	0.112 Cum @ Rs.	58374.79 /Cum. =	Rs.	6,537.97
Planks 38mm.-	0.34 Cum @ Rs.	58374.79 /Cum. =	Rs.	19,847.42
120 mm sal bullah-	56 Rmtr @ Rs.	30.81 /mtr. =	Rs.	1,725.36
Carriage of wood	1.142 Cum @ Rs.	149.20 /Cum. =	Rs.	170.38
Total for 10 times use			=	Rs. 28,281.13
For single use			=	Rs. 2,828.11
(ii) Labour -				
Carpenter (2 ndClass )	2.75 Nos. @ Rs.	562.00 /each =	Rs.	1,545.50
Semiskilled Mulia	2.75 Nos. @ Rs.	512.00 /each =	Rs.	1,408.00
			Rs.	2,953.50



**ANALYSIS OF RATES****( As per SR - 2022 )(Kendrapada District)**

- (iii) Add 15 % for OH & Contractors profit

RATE FOR

Total for 9.00 Sqm.

	Rs.	867.24
	= Rs.	6,648.85
Total Rate/Sqm.	= Rs.	738.76

- (v) Add Labour Cess 1%

	Rs.	7.38
	Rs.	746.14 /Sqm.

i) For each additional height of 0.3m. over initial height of 4.3m. In ground floor add extra upto a height of 5.5m.

ii) For each additional height of 0.3m. add extra over 5.5m.

	Rs.	5.00
	Rs.	8.00

- (B) 1st Floor

- (i) Rate of GF

- (ii) Add 20% extra labour over ground floor

Add 15 % for O H and contractors profit on extra labour

	= Rs.	738.76
	= Rs.	147.75
	Rs.	22.16

Total = Rs. 908.67 /Sqm.

- (iv) Add Labour Cess 1%

	Rs.	9.08
Total Rate/Sqm.	= Rs.	917.75

- (C) 2nd Floor

- (i) Rate of 1st floor

- (ii) Add 20% extra labour over 1st floor

Add 15 % for O H and contractors profit on extra labour

	= Rs.	908.67
	= Rs.	181.73
	Rs.	27.25

Total = Rs. 1,117.65 /Sqm.

- (iv) Add Labour Cess 1%

	Rs.	11.17
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Total Rate/Sqm. = Rs. 1,128.82

(b) RCC stairs excluding landing but including railing. -

Data for 5.00 Sqm.

- (i) Materials -

Non sal wood 38mm. thick plank

0.228 Cum @ Rs.

58374.79 /Cum. = Rs. 13,309.45

Non sal wood scantling-

0.039 Cum @ Rs.

58374.79 /Cum. = Rs. 2,276.61

120 mm non sal bullah-

6.5 Rmtr @ Rs.

41.81 /mtr. = Rs. 271.76

Carriage of wood

0.35 Cum @ Rs.

149.20 Rs. 41.77

Total for 10 times use

= Rs. 15,899.59

For single use

= Rs. 1,589.95

- (ii) Labour -

Carpenter (2 nd Class)

2.75 Nos. @ Rs.

562.00 /each = Rs. 1,545.50

Semiskilled Mulia

2.75 Nos. @ Rs.

512.00 /each = Rs. 1,408.00

- (iii) Add 15 % for OH & Contractors profit

Total for 5.00 Sqm.

	Rs.	2,953.50
	Rs.	681.51
	= Rs.	5,224.96
Total Rate/Sqm.	= Rs.	1,044.99

- (v) Add Labour Cess 1%

	Rs.	10.44
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Rs. 1,055.43 /Sqm.

- (B) 1st Floor

- (i) Rate of GF

- (ii) Add 20% extra labour over ground floor

Add 15 % for O H and contractors profit on extra labour

	= Rs.	1,044.99
	= Rs.	208.99
	Rs.	31.34

Total = Rs. 1,285.32 /Sqm.

- (iv) Add Labour Cess 1%

	Rs.	12.85
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Total Rate/Sqm. = Rs. 1,298.17 /Sqm.

- (C) 2nd Floor

**ANALYSIS OF RATES**

(As per SR - 2022) (Kendrapada District)

(i) Rate of 1st floor			= Rs.	1,285.32
(ii) Add 20% extra labour over 1st floor			= Rs.	171.37
Add 15 % for O H and contractors profit on extra labour			Rs.	25.70
			Total = Rs.	1,482.39 /Sqm.
(iv) Add Labour Cess 1%			Rs.	14.82
(c) For R.C.C foundation, footing bases of column, mass concrete, pre-cast slabs, plinth band etc as per direction of Engg-in-Charge.			Total Rate/Sqm. = Rs.	1,497.21
<u>Data for 10.00 Sqm.</u>				
(i) Materials -				
25mm.thick non sal plank	-	0.267 Cum @ Rs.	58374.79 /Cum. = Rs.	15,586.06
80mm non sal bullah	-	12.6 Rmtr @ Rs.	41.81 /mtr. = Rs.	526.80
Carriage of wood	-	0.3284 Cum @ Rs.	149.20 /Cum. = Rs.	39.19
Total for 10 times use	-		= Rs.	16,152.05
For single use	-		= Rs.	1,615.20
(ii) Labour -				
Carpenter (2 nd Class )	-	0.50 Nos. @ Rs.	562.00 /each = Rs.	281.00
Sangi Mulia	-	0.50 Nos. @ Rs.	512.00 /each = Rs.	256.00
			Rs.	537.00
(iii) Add 15 % for O H and contractors profit (a+b)			Rs.	322.83
Total for 10.00 Sqm.			= Rs.	2,475.03
			Total Rate/Sqm. = Rs.	247.50
(v) Add Labour Cess 1%			Rs.	2.47
(d) For R.C.C lintels :			Rs.	249.97 /Sqm.
<u>Data for 7.8 Sqm.</u>				
(A) <u>Ground Floor</u>				
(i) Materials -				
38mm.thick non sal plank	-	0.413 Cum @ Rs.	58374.79 /Cum. = Rs.	24,108.78
120 mm non sal bullah	-	21.00 Rmtr @ Rs.	41.81 /mtr. = Rs.	878.01
Carriage of wood	-	0.689 Cum @ Rs.	149.20	Rs. 102.79
Total for 10 times use	-		= Rs.	25,089.58
For single use	-		= Rs.	2,508.95
(ii) Labour -				
Carpenter (2 nd Class )	-	1.25 Nos. @ Rs.	562.00 /each = Rs.	702.50
Semiskilled Mulia	-	1.25 Nos. @ Rs.	512.00 /each = Rs.	640.00
			Rs.	1,342.50
(iii) Add 15 % for O H and contractors profit(a+b)			Rs.	577.71
			Total for 7.80 Sqm. = Rs.	4,429.16
			Total Rate/Sqm. = Rs.	567.84
(v) Add Labour Cess 1%			Rs.	5.67
(B) <u>1st Floor</u>			Rs.	573.51 /Sqm.
(i) Rate of GF			= Rs.	567.84
(ii) Add 20% extra labour over ground floor			= Rs.	113.56
Add 15 % for O H and contractors profit on extra labour			Rs.	17.03
			Total = Rs.	698.43 /Sqm.
(iv) Add Labour Cess 1%			Rs.	6.98
(C) <u>2nd Floor</u>			Total Rate/Sqm. = Rs.	705.41



**ANALYSIS OF RATES**  
(As per SR - 2022)(Kendrapada District)

(i) Rate of 1st floor		= Rs.	698.43
(ii) Add 20% extra labour over 1st floor		= Rs.	139.68
Add 15 % for O H and contractors profit on extra labour		Rs.	20.95
		Total = Rs.	859.06 /Sqm.
(iv) Add Labour Cess 1%			
(e) For RCC beams,column,girder and bresser etc.		Rs.	8.59
Data for 4.20 Sqm.		Total Rate/Sqm. = Rs.	867.65
(A) <u>Ground Floor</u>			
(i) Materials			
38mm.thick non sal plank	-	0.218 Cum @ Rs.	58374.79 /Cum. = Rs. 12,725.70
120 mm dia Sal bullah	-	15.20 Rmtr @ Rs.	51.87 /mtr. = Rs. 788.42
80 mm dia sal bullah	-	8.00 Rmtr @ Rs.	51.87 /mtr. = Rs. 414.96
Carriage of wood	-	0.456 Cum @ Rs.	149.20 Rs. 54.42
Total for 10 times use	-		= Rs. 13,983.50
For single use	-		= Rs. 1,398.35
(ii) b)Labour -			
Carpenter (2 nd Class)	-	2.75 Nos. @ Rs.	562.00 /each = Rs. 1,545.50
Semiskilled Mulia	-	2.75 Nos. @ Rs.	512.00 /each = Rs. 1,408.00
			Rs. 2,953.50
(iii) Add 15 % for O H and contractors p	-		Rs. 652.77
		Total for 4.20 Sqm.	Rs. 5,004.62
		Total Rate/Sqm. = Rs.	1,191.57
(v) Add Labour Cess 1%			
(B) <u>1st Floor</u>		Rs.	11.91
(i) Rate of GF		Rs.	1,203.48 /Sqm.
(ii) Add 20% extra labour over ground floor		= Rs.	1,191.57
Add 15 % for O H and contractors profit on extra labour		= Rs.	238.31
		Rs.	35.74
		Total = Rs.	1,465.62 /Sqm.
(iv) Add Labour Cess 1%			
(C) <u>2nd Floor</u>		Rs.	14.65
(i) Rate of 1st floor		Total Rate/Sqm. = Rs.	1,480.27
(ii) Add 20% extra labour over 1st floor		= Rs.	1,465.62
Add 15 % for O H and contractors profit on extra labour		= Rs.	293.12
		Rs.	43.96
		Total = Rs.	1,802.70 /Sqm.
(iv) Add Labour Cess 1%			
(d) <u>RCC wall and fins-</u>		Rs.	18.02
Up to 4.3m.height -		Total Rate/Sqm. = Rs.	1,820.72
Data for 23.90 Sqm.			
(A) <u>Ground Floor</u>			
(i) Materials -			
Non sal wood scantling-	-	0.269 Cum @ Rs.	58374.79 /Cum. = Rs. 15,702.81
Planks 38mm.-	-	0.954 Cum @ Rs.	58374.79 /Cum. = Rs. 55,689.54
120 mm non sal bullah-	-	100.80 Rmtr @ Rs.	41.81 /mtr. = Rs. 4,214.44
Carriage of wood	-	2.461 Cum @ Rs.	149.20 Rs. 293.74
Total for 10 times use	-		= Rs. 75,900.53
For single use	-		= Rs. 7,590.05
(ii) Labour -			

**ANALYSIS OF RATES****(As per SR - 2022) (Kendrapada District)**

Carpenter (2 ndClass )	-	13.50 Nos. @ Rs.	562.00 /each = Rs.	7,587.00
Semiskilled Mulia	-	13.50 Nos. @ Rs.	512.00 /each = Rs.	6,912.00
(iii) Add 15 % for O H and contractors p	-			Rs. 14,499.00
				Rs. 3,313.35
				= Rs. 25,402.40
		Total for 23.90 Sqm.	Total Rate/Sqm. = Rs.	1,062.86

(v) Add Labour Cess 1%

i) For each additional height of 0.3m. over initial height of 4.3m. In ground floor add extra upto a height of 5.5m.

ii) For each additional height of 0.3m. add extra over 5.5m.

**RATE FOR****(B) 1st Floor**

(i) Rate of GF

(ii) Add 20% extra labour over ground floor

Add 15 % for O H and contractors profit on extra labour

Rs. 10.62  
Rs. 1,073.48 /Sqm.

Rs. 5.00

Rs. 8.00

= Rs. 1,062.86

= Rs. 212.57

Rs. 31.88

Total = Rs. 1,307.31 /Sqm.

(iv) Add Labour Cess 1%

Rs. 13.07

Total Rate/Sqm. = Rs. 1,320.38

**(C) 2nd Floor**

(i) Rate of 1st floor

(ii) Add 20% extra labour over 1st floor

Add 15 % for O H and contractors profit on extra labour

= Rs. 1,307.31

= Rs. 261.46

Rs. 39.21

Total = Rs. 1,607.98 /Sqm.

(iv) Add Labour Cess 1%

Rs. 16.07

Total Rate/Sqm. = Rs. 1,624.05

9. 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 as per direction of Engg-in-Charge.

(i) **Roof****(i) Ground Floor**

Cost of C.C

Centring &amp; shuttering. 10.00 Sqm.

10.00 Sqm. @ Rs.

746.14

Rs. 6,997.98

Rs. 7,461.40

Rs. 14,459.38 /Cum

**(ii) 1st Floor**

Cost of C.C

Centring &amp; shuttering. 10.00 Sqm.

10.00 Sqm. @ Rs.

917.75

Rs. 7,120.20

Rs. 9,177.50

Rs. 16,297.70 /Cum

**(iii) 2nd Floor**

Cost of C.C

Centring &amp; shuttering. 10.00 Sqm.

10.00 Sqm. @ Rs.

1128.82

Rs. 7,260.75

Rs. 11,288.20

Rs. 18,548.95 /Cum

(i) **Column Base**

Cost of C.C

Centring &amp; shuttering

1.50 Sqm. @ Rs.

249.97

Rs. 6,997.98

Rs. 374.95

Rs. 7,372.93 /Cum

(i) **Plinth Beam**

Cost of C.C

Rs. 6,997.98



**ANALYSIS OF RATES**  
(As per SR - 2022) (Kendrapada District)

	Centring & shuttering	5.00 Sqm. @ Rs.	249.97	Rs. 1,249.85	
(ii)	<b><u>R.C.C Beam &amp; Coloum</u></b>			Rs. 8,247.83	/Cum
	<b><u>(i)Ground Floor</u></b>				
	Cost of C.C			Rs. 6,997.98	
	Centring & shuttering.	8.00 Sqm. @ Rs.	1203.48	Rs. 9,627.84	
				Rs. 16,625.82	/Cum
	<b><u>(ii)1st. Floor</u></b>				
	Cost of C.C			Rs. 7,120.20	
	Centring & shuttering.	8.00 Sqm. @ Rs.	1480.27	Rs. 11,842.16	
				Rs. 18,962.36	/Cum
	<b><u>(iii)2nd. Floor</u></b>				
	Cost of C.C			Rs. 7,260.75	
	Centring & shuttering.	8.00 Sqm. @ Rs.	1820.72	Rs. 14,565.76	
				Rs. 21,826.51	/Cum
(iv)	<b><u>Lintel</u></b>				
	<b><u>(i)Ground Floor</u></b>				
	Cost of C.C			Rs. 6,997.98	
	Centring & shuttering.10.00Sqm.	14.00 Sqm. @ Rs.	573.51	Rs. 8,029.14	
				Rs. 15,027.12	/Cum
	<b><u>(ii)1st. Floor</u></b>				
	Cost of C.C			Rs. 7,120.20	
	Centring & shuttering.10.00Sqm.	14.00 Sqm. @ Rs.	705.41	Rs. 9,875.74	
				Rs. 16,995.94	/Cum
	<b><u>(iii)2nd. Floor</u></b>				
	Cost of C.C			Rs. 7,260.75	
	Centring & shuttering.10.00Sqm.	14.00 Sqm. @ Rs.	867.65	Rs. 12,147.10	
				Rs. 19,407.85	/Cum
(v)	<b><u>R.C.C Stair</u></b>				
	<b><u>(i)Ground Floor</u></b>				
	Cost of C.C	1.00 cum @ Rs.	6997.98	Rs. 6,997.98	
	Centring & shuttering	9.00 Sqm. @ Rs.	1055.43	Rs. 9,498.87	
				Rs. 16,496.85	/Cum
	<b><u>(ii)1st. Floor</u></b>				
	Cost of C.C	1.00 Rs.	7120.20	Rs. 7,120.20	
	Centring & shuttering	9.00 Sqm. @ Rs.	1298.17	Rs. 11,683.53	
				Rs. 18,803.73	/Cum
	<b><u>(iii)2nd. Floor</u></b>				
	Cost of C.C	1.00 Sqm. @ Rs.	7260.75	Rs. 7,260.75	
	Centring & shuttering	9.00 Sqm. @ Rs.	1497.21	Rs. 13,474.89	
				Rs. 20,735.64	/Cum
(vi)	<b><u>Chaja</u></b>				
	<b><u>(i)Ground Floor</u></b>				
	Cost of C.C	0.0650 Sqm. @ Rs.	6997.98	Rs. 454.86	
	Centring & shuttering	1.100 Sqm. @ Rs.	746.14	Rs. 820.75	
				Rs. 1,275.61	/Sqm.
	<b><u>(ii)1st. Floor</u></b>				
	Cost of C.C	0.0650 Sqm. @ Rs.	7120.20	Rs. 462.81	
	Centring & shuttering	1.100 Sqm. @ Rs.	917.75	Rs. 1,009.52	
				Rs. 1,472.33	/Sqm.
	<b><u>(iii)2nd Floor</u></b>				
	Cost of C.C	0.0650 Sqm. @ Rs.	7260.75	Rs. 471.94	
	Centring & shuttering	1.100 Sqm. @ Rs.	1128.82	Rs. 1,241.70	

**ANALYSIS OF RATES**  
(As per SR - 2022) (Kendrapada District)

(vii)	<b>Fins</b>				Rs. 1,713.64 /Sqm.
	<u>(i) Ground Floor</u>				
	Cost of C.C	0.080 Sqm. @ Rs.	6997.98	Rs. 559.83	
	Centring & shuttering	2.000 Sqm. @ Rs.	1073.48	Rs. 2,146.96	
				Rs. 2,706.79 /Sqm.	
	<u>(ii) 1st. Floor</u>				
	Cost of C.C	0.0800 Sqm. @ Rs.	7120.20	Rs. 569.61	
	Centring & shuttering	2.000 Sqm. @ Rs.	1320.38	Rs. 2,640.76	
				Rs. 3,210.37 /Sqm.	
	<u>(iii) 2nd Floor</u>				
	Cost of C.C	0.0800 Sqm. @ Rs.	7260.75	Rs. 580.86	
	Centring & shuttering	2.000 Sqm. @ Rs.	1624.05	Rs. 3,248.10	
				Rs. 3,828.96 /Sqm.	
(viii)	<b>Shelves /Racks(100mm)</b>				
	<u>(i) Ground Floor</u>				
	Cost of C.C	0.100 Sqm. @ Rs.	6997.98	Rs. 699.79	
	Centring & shuttering	1.200 Sqm. @ Rs.	746.14	Rs. 895.36	
				Rs. 1,595.15 /Sqm.	
	<u>(ii) 1st. Floor</u>				
	Cost of C.C	0.1000 Sqm. @ Rs.	7120.20	Rs. 712.02	
	Centring & shuttering	1.200 Sqm. @ Rs.	917.75	Rs. 1,101.30	
				Rs. 1,813.32 /Sqm.	
	<u>(iii) 2nd Floor</u>				
	Cost of C.C	0.1000 Sqm. @ Rs.	7260.75	Rs. 726.07	
	Centring & shuttering	1.200 Sqm. @ Rs.	1128.82	Rs. 1,354.58	
				Rs. 2,080.65 /Sqm.	
10.	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 as per direction of Engg-in-Charge. Unit -1 MT and Taking Output = 1 MT				
	<u>(A) Ground Floor</u>				
	<u>(i) Materials -</u>				
	HYSD bars including 5% overlaps a	- 1.05 MT @ Rs.	67944.70 /MT =	Rs. 71,341.93	
	Binding wire	- 8.00 kg. @ Rs.	90.10 /kg. =	Rs. 720.80	
				Rs. 72,062.73	
	<u>(ii) Labour -</u>				
	Mate	- 0.44 Nos. @ Rs.	512.00 /each =	Rs. 225.28	
	Blacksmith(special)	- 3.00 Nos. @ Rs.	612.00 /each =	Rs. 1,836.00	
	Man Mulia	- 8.00 Nos. @ Rs.	462.00 /each =	Rs. 3,696.00	
				Rs. 5,757.28	
	<u>(iii) Carriage of Rod</u>	- 1.05 MT @ Rs.	247.80 /MT =	Rs. 260.19	
	<u>(iv) Add 15 % for OH &amp; Contractors profit</u>			Rs. 11,673.00	
			Total Rate/1 MT =	Rs. 89,753.20	
			Total Rate/qntl. =	Rs. 8,975.32	
	<u>(vi) Add Labour Cess 1%</u>			Rs. 89.75	
			Total Rate/Qtl. =	Rs. 9,065.07	
	<u>(B) 1st Floor</u>				
	<u>(i) Rate of GF</u>				
	<u>(ii) Add 5% extra labour over ground floor</u>			= Rs. 8,975.32	
	<u>Add 15 % for O H and contractors profit on extra labour</u>			= Rs. 28.78	
				Rs. 4.31	
			Total =	Rs. 9,008.41	



**ANALYSIS OF RATES**  
(As per SR - 2022 )(Kendrapada District)

(iv) Add Labour Cess 1%

(C) 2nd Floor

(i) Rate of 1st floor

(ii) Add 5% extra labour over ground floor

Add 15 % for O H and contractors profit on extra labour

	Rs.	90.08
Total Rate/Qtl. =	Rs.	9,098.49
	= Rs.	9,008.41
	= Rs.	30.22
	Rs.	4.53
Total =	Rs.	9,043.16

(iv) Add Labour Cess 1%

11. Brick work with Fly Ash Bricks having crushing strength 75 kg/sq.cm in c.m. 1:6 in F & P including cost conveyance and royalty of materials curing etc. complete as per direction of Engg-in-Charge.

(A) Ground Floor

(i) Materials -

Brick

350 Nos. @ Rs.

5030.50

Sand(screened and washed)

0.28 Cum @ Rs.

/1000 nos.= Rs. 1,760.67

Cement

0.672 Qntl. @ Rs.

76.88 /Cum.= Rs. 21.52

546.87 /qntl. = Rs. 367.49

Rs. 2,149.68

(ii) Labour -

Mason 1 st class @

0.35 Nos. @ Rs.

612.00 /each = Rs. 214.20

Mason 2 nd class @

1.05 Nos. @ Rs.

562.00 /each = Rs. 590.10

Man mulia @

1.55 Nos. @ Rs.

462.00 /each = Rs. 716.10

Man mulia prep. mortar

1.41 Nos. @ Rs.

462.00 /each = Rs. 651.42

Rs. 2,171.82

(iii) Transportation -

Brick

350 Nos. @ Rs.

864.10 /1000= Rs. 302.43

Sand(screened and washed)

0.28 Cum @ Rs.

731.71 /Cum.= Rs. 204.87

Cement

0.672 Qntl. @ Rs.

24.78 /qntl. = Rs. 16.65

Rs. 523.95

(iv) Royalty - reened &amp; washed)

0.28 Cum @ Rs.

230.25 /Cum.= Rs. 64.47

(v) Add 15 % for OH &amp; Contractors profit

Rs. 648.22

Total Rate/Cum = Rs. 5,558.14

(vii) Add Labour Cess 1%

	Rs.	55.58
Total Rate/Cum =	Rs.	5,613.72

12. Brick work with Fly Ash Bricks having crushing strength between 100kg/sq.cm to 149kg/sq.cm in c.m. 1:6 in Sup.Str. including cost conveyance and royalty of materials curing etc. complete as per direction of Engg-in-Charge.

(A) Ground Floor

(i) Rate as per F &amp; P in Item No : 11

(ii) Add for S/S

	Rs.	5,558.14
	Rs.	33.00
Total Rate/Cum =	Rs.	5,591.14

(iv) Add Labour Cess 1%

(B) 1st Floor

(i) Rate of GF

(ii) Add 15% extra labour over ground floor

Add 15 % for O H and contractors profit on extra labour

	Rs.	55.91
Total Rate/Cum =	Rs.	5,647.05
	= Rs.	5,591.14
	= Rs.	325.77
	Rs.	48.86

**ANALYSIS OF RATES**  
(As per SR - 2022 )(Kendrapada District)

Total = Rs. 5,965.77

(iv) Add Labour Cess 1%

(C) 2nd Floor

(i) Rate of 1st floor

(ii) Add 15% extra labour over ground floor

Add 15 % for O H and contractors profit on extra labour

Rs. 59.65

Total Rate/Cum = Rs. 6,025.42

= Rs. 5,965.77

= Rs. 374.63

Rs. 56.19

Total = Rs. 6,396.59

(iv) Add Labour Cess 1%

Rs. 63.96

Total Rate/Cum = Rs. 6,460.55

13. 16mm. thick cement plaster in c.m. 1:6 over brick masonry including cost conveyance and royalty of materials curing etc. complete as per direction of Engg-in-Charge.

(A) Ground Floor

(i) a) Materials -

Sand(screened and washed)

Cement

- 0.018 Cum @ Rs.

- 0.0430 Qntl. @ Rs.

76.88 /Cum. = Rs. 1.38

546.87 /qntl. = Rs. 23.51

Rs. 24.89

(ii) b) Labour -

Mason (2nd Class )

Man mulia

Woman mulia

- 0.16 Nos. @ Rs.

- 0.13 Nos. @ Rs.

- 0.11 Nos. @ Rs.

562.00 /each = Rs. 89.92

462.00 /each = Rs. 60.06

462.00 /each = Rs. 50.82

Rs. 200.80

(iii) c) Transportation -

Sand(screened and washed)

Cement

- 0.018 Cum @ Rs.

- 0.0430 Qntl. @ Rs.

731.71 /Cum. = Rs. 13.17

24.78 /qntl. = Rs. 1.06

Rs. 14.23

(iv) d) Royalty -

Sand(screened and washed)

- 0.018 Cum @ Rs.

230.25 /Cum. = Rs. 4.14

(v) Add 15 % for OH & Contractors profit

Rs. 33.85

Total Rate/Sqm. = Rs. 277.91

(vii) Add Labour Cess 1%

Rs. 2.77

Rs. 280.68 /Sqm.

(B) 1st Floor

(a) Inside

(i) Rate of GF

(ii) Add 3% extra labour over ground floor

Add 15 % for O H and contractors profit on extra labour

= Rs. 277.91

= Rs. 6.02

Rs. 0.90

Total = Rs. 284.83 /Sqm.

(iv) Add Labour Cess 1%

Rs. 2.84

Total Rate/Sqm. = Rs. 287.67 /Sqm.

(b) out side

(i) Rate of GF

(ii) Add 5% extra labour over ground floor

Add 15 % for O H and contractors profit on extra labour

= Rs. 277.91

= Rs. 10.04

Rs. 1.50

Total = Rs. 289.45 /Sqm.



**ANALYSIS OF RATES**  
(As per SR - 2022) (Kendrapada District)

(iv) Add Labour Cess 1%

(C) 2nd Floor

(a) Inside

(i) Rate of 1st floor

(ii) Add 3% extra labour over ground floor

Add 15 % for O H and contractors profit on extra labour

$$\text{Total Rate/Sqm.} = \frac{\text{Rs. } 2.89}{\text{Rs. } 292.34} \text{ /Sqm.}$$

$$= \text{Rs. } 284.83$$

$$= \text{Rs. } 6.20$$

$$\text{Rs. } 0.93$$

$$\text{Total} = \text{Rs. } 291.96 \text{ /Sqm.}$$

(iv) Add Labour Cess 1%

(b) out side

(i) Rate of GF

(ii) Add 5% extra labour over ground floor

Add 15 % for O H and contractors profit on extra labour

$$\text{Total Rate/Sqm.} = \frac{\text{Rs. } 2.91}{\text{Rs. } 294.87} \text{ /Sqm.}$$

$$= \text{Rs. } 289.45$$

$$= \text{Rs. } 10.54$$

$$\text{Rs. } 1.58$$

$$\text{Total} = \text{Rs. } 301.57 \text{ /Sqm.}$$

(iv) Add Labour Cess 1%

$$\text{Total Rate/Sqm.} = \frac{\text{Rs. } 3.01}{\text{Rs. } 304.58} \text{ /Sqm.}$$

14. 12mm. thick cement plaster in c.m. 1:6 over brick masonry including cost conveyance and royalty of materials curing etc. complete as per direction of Engg-in-Charge.

(A) Ground Floor

(i) a) Materials -

Sand(screened and washed)

Cement

0.015 Cum @ Rs.

0.0358 Qntl. @ Rs.

$$76.88 \text{ /Cum.} = \text{Rs. } 1.15$$

$$546.87 \text{ /qntl.} = \text{Rs. } 19.57$$

$$\text{Rs. } 20.72$$

(ii) b) Labour -

Mason(2nd Class)

Man mulia

Woman mulia

0.14 Nos. @ Rs.

0.07 Nos. @ Rs.

0.05 Nos. @ Rs.

$$562.00 \text{ /each} = \text{Rs. } 78.68$$

$$462.00 \text{ /each} = \text{Rs. } 32.34$$

$$462.00 \text{ /each} = \text{Rs. } 23.10$$

$$\text{Rs. } 134.12$$

(iii) c) Transportation -

Sand(screened and washed)

Cement

0.015 Cum @ Rs.

0.0358 Qntl. @ Rs.

$$731.71 \text{ /Cum.} = \text{Rs. } 10.97$$

$$24.78 \text{ /qntl.} = \text{Rs. } 0.88$$

$$\text{Rs. } 11.85$$

(iv) d) Royalty -

Sand(screened and washed)

0.015 Cum @ Rs.

$$230.25 \text{ /Cum.} = \text{Rs. } 3.45$$

(v) Add 15 % for OH & Contractors profit

(i) Ground Floor -

$$\text{Total Rate/Sqm.} = \frac{\text{Rs. } 23.23}{\text{Rs. } 193.37}$$

(vii) Add Labour Cess 1%

(B) 1st Floor

(a) Inside

(i) Rate of GF

(ii) Add 3% extra labour over ground floor

Add 15 % for O H and contractors profit on extra labour

$$\text{Total Rate/Sqm.} = \frac{\text{Rs. } 1.93}{\text{Rs. } 195.30}$$

$$= \text{Rs. } 193.37$$

$$= \text{Rs. } 4.02$$

$$\text{Rs. } 0.60$$

$$\text{Total} = \text{Rs. } 197.99 \text{ /Sqm.}$$

(iv) Add Labour Cess 1%

(b) out side

$$\text{Total Rate/Sqm.} = \frac{\text{Rs. } 1.97}{\text{Rs. } 199.96}$$

**ANALYSIS OF RATES****( As per SR - 2022 )(Kendrapada District)**

- (i) Rate of GF  
(ii) Add 5% extra labour over ground floor  
Add 15 % for O H and contractors profit on extra labour

= Rs.	193.37
= Rs.	6.70
Rs.	1.00
Total = Rs.	201.07 /Sqm.

- (iv) Add Labour Cess 1%

Rs.	2.01
Total Rate/Sqm. = Rs.	203.08

**(C) 2nd Floor****(a) Inside**

- (i) Rate of 1st floor  
(ii) Add 3% extra labour over ground floor  
Add 15 % for O H and contractors profit on extra labour

= Rs.	197.99
= Rs.	4.14
Rs.	0.62
Total = Rs.	202.75 /Sqm.

- (iv) Add Labour Cess 1%

Rs.	2.02
Total Rate/Sqm. = Rs.	204.77

**(b) out side**

- (i) Rate of GF  
(ii) Add 5% extra labour over ground floor  
Add 15 % for O H and contractors profit on extra labour

= Rs.	201.07
= Rs.	7.04
Rs.	1.05
Total = Rs.	209.16 /Sqm.

- (iv) Add Labour Cess 1%

Rs.	2.09
Total Rate/Sqm. = Rs.	211.25

15. 12mm. thick cement plaster in c.m. 1:4 over brick masonry including cost conveyance and royalty of materials curing etc. complete as per direction of Engg-in-Charge.

**(A) Ground Floor****(i) a) Materials -**

Sand(screened and washed)  
Cement

-	0.015 Cum @ Rs.	76.88 /Cum. = Rs.	1.15
-	0.0543 Qntl. @ Rs.	546.87 /qntl. = Rs.	29.69
		Rs.	30.84

**(ii) b) Labour -**

Mason (2nd Class)  
Man mulia  
Woman mulia

-	0.14 Nos. @ Rs.	562.00 /each = Rs.	78.68
-	0.07 Nos. @ Rs.	462.00 /each = Rs.	32.34
-	0.05 Nos. @ Rs.	462.00 /each = Rs.	23.10
		Rs.	134.12

**(iii) c) Transportation -**

Sand(screened and washed)  
Cement

-	0.015 Cum @ Rs.	731.71 /Cum. = Rs.	10.97
-	0.0543 Qntl. @ Rs.	24.78 /qntl. = Rs.	1.34
		Rs.	12.31

**(iv) d) Royalty -**

Sand(screened and washed)

-	0.015 Cum @ Rs.	230.25 /Cum. = Rs.	3.45
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**(v) OH & CP =**

(i) Ground Floor -

Rs.	24.74
Total Rate/Sqm. = Rs.	205.46

- (vii) Add Labour Cess 1%

**(B) 1st Floor****(a) Inside**

- (i) Rate of GF  
(ii) Add 3% extra labour over ground floor  
Add 15 % for O H and contractors profit on extra labour

Rs.	2.05
Total Rate/Sqm. = Rs.	207.51
= Rs.	205.46
= Rs.	4.02
Rs.	0.60
Total = Rs.	210.08 /Sqm.



**ANALYSIS OF RATES**  
(As per SR - 2022 )(Kendrapada District)

(iv) Add Labour Cess 1%

A-i With neat cement Punning  
cost of 12mm CP in cm 1:4  
Add punning

(b) out side

(i) Rate of GF

(ii) Add 5% extra labour over ground floor

Add 15 % for O H and contractors profit on extra labour

Total Rate/Sqm. =  $\frac{\text{Rs. } 2.10}{\text{Rs. } 212.18}$

= Rs. 212.18

= Rs. 59.20

Total Rate/Sqm. =  $\frac{\text{Rs. } 271.38}{\text{Rs. } 271.38}$

= Rs. 205.46

= Rs. 6.70

Rs. 1.00

Total =  $\frac{\text{Rs. } 213.16}{\text{Rs. } 213.16} / \text{Sqm.}$

(iv) Add Labour Cess 1%

(C) 2nd Floor

(a) Inside

(i) Rate of 1st floor

(ii) Add 3% extra labour over ground floor

Add 15 % for O H and contractors profit on extra labour

Total Rate/Sqm. =  $\frac{\text{Rs. } 2.13}{\text{Rs. } 215.29}$

= Rs. 210.08

= Rs. 4.14

Rs. 0.62

Total =  $\frac{\text{Rs. } 214.84}{\text{Rs. } 214.84} / \text{Sqm.}$

(iv) Add Labour Cess 1%

(b) out side

(i) Rate of GF

(ii) Add 5% extra labour over ground floor

Add 15 % for O H and contractors profit on extra labour

Total Rate/Sqm. =  $\frac{\text{Rs. } 2.14}{\text{Rs. } 216.98}$

= Rs. 213.16

= Rs. 7.04

Rs. 1.05

Total =  $\frac{\text{Rs. } 221.25}{\text{Rs. } 221.25} / \text{Sqm.}$

(iv) Add Labour Cess 1%

16. 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 as per direction of Engg-in-Charge .

(A) Ground Floor

(i) Materials -

Sand(screened and washed)

Cement

0.0075 Cum @ Rs.

0.0372 Qntl. @ Rs.

76.88 /Cum. = Rs. 0.57

546.87 /qntl. = Rs. 20.34

Rs. 20.91

(ii) Labour -

Mason (2nd Class )

Man mulia

Woman mulia

0.14 Nos. @ Rs.

0.12 Nos. @ Rs.

0.05 Nos. @ Rs.

562.00 /each = Rs. 78.68

462.00 /each = Rs. 55.44

462.00 /each = Rs. 23.10

Rs. 157.22

(iii) Transportation -

Sand(screened and washed)

Cement

0.0075 Cum @ Rs.

0.0372 Qntl. @ Rs.

731.71 /Cum. = Rs. 5.48

24.78 /qntl. = Rs. 0.92

Rs. 6.40

(iv) Royalty -

Sand(screened and washed)

0.0075 Cum @ Rs.

230.25 /Cum. = Rs. 1.72

(v) Add 15 % for OH & Contractors profit

(i)Ground Floor -

Rs. 26.71

Total Rate/Sqm. =  $\frac{\text{Rs. } 212.96}{\text{Rs. } 212.96}$

**ANALYSIS OF RATES**  
(As per SR - 2022)(Kendrapada District)

(vii) Add Labour Cess 1%

Rs. 2.12

(B) 1st Floor

Rs. 215.08 /Sqm.

(a) Inside

(i) Rate of GF

= Rs. 212.96

(ii) Add 3% extra labour over ground floor

= Rs. 4.71

Add 15 % for O H and contractors profit on extra labour

Rs. 0.70

Total = Rs. 218.37 /Sqm.

(iv) Add Labour Cess 1%

Rs. 2.18

(b) out side

Total Rate/Sqm. = Rs. 220.55

(i) Rate of GF

= Rs. 212.96

(ii) Add 5% extra labour over ground floor

= Rs. 7.86

Add 15 % for O H and contractors profit on extra labour

Rs. 1.17

Total = Rs. 221.99 /Sqm.

(iv) Add Labour Cess 1%

Rs. 2.21

(C) 2nd Floor

Total Rate/Sqm. = Rs. 224.20

(a) Inside

(i) Rate of 1st floor

= Rs. 218.37

(ii) Add 3% extra labour over ground floor

= Rs. 4.85

Add 15 % for O H and contractors profit on extra labour

Rs. 0.72

Total = Rs. 223.94 /Sqm.

(iv) Add Labour Cess 1%

Rs. 2.23

(b) out side

Total Rate/Sqm. = Rs. 226.17

(i) Rate of GF

= Rs. 221.99

(ii) Add 5% extra labour over ground floor

= Rs. 8.25

Add 15 % for O H and contractors profit on extra labour

Rs. 1.23

Total = Rs. 231.47 /Sqm.

(iv) Add Labour Cess 1%

Rs. 2.31

17. Cement punning including cost, conveyance of cement and curing etc. complete  
as per direction of Engg-in-Charge.

Total Rate/Sqm. = Rs. 233.78

(A) Ground Floor(i) a) Materials -

Cement

0.0372 Qntl. @ Rs.

546.87 /qntl. = Rs. 20.34

(ii) b) Labour -

Mason (1st Class)

0.0270 Nos. @ Rs.

612.00 /each = Rs. 16.52

Woman mulia

0.0270 Nos. @ Rs.

462.00 /each = Rs. 12.47

(iii) c) Transportation -

Cement

0.0372 Qntl. @ Rs.

24.78 /qntl. = Rs. 0.92

(iv) Add 15 % for OH &amp; Contractors profit

Rs. 7.39

Rs. 57.64

(vi) Add Labour Cess 1%

Rs. 0.57

Total Rate/Sqm. = Rs. 58.21



**ANALYSIS OF RATES**  
(As per SR - 2022) (Kendrapada District)

(B) 1st Floor(a) Inside

(i) Rate of GF

(ii) Add 3% extra labour over ground floor

Add 15 % for O H and contractors profit on extra labour

= Rs. 57.64

= Rs. 0.86

Rs. 0.12

Total = Rs. 58.62 /Sqm.

(iv) Add Labour Cess 1%

Rs. 0.58

Total Rate/Sqm. = Rs. 59.20

(b) out side

(i) Rate of GF

(ii) Add 5% extra labour over ground floor

Add 15 % for O H and contractors profit on extra labour

= Rs. 57.64

= Rs. 1.44

Rs. 0.21

Total = Rs. 59.29 /Sqm.

(iv) Add Labour Cess 1%

Rs. 0.59

Total Rate/Sqm. = Rs. 59.88

(C) 2nd Floor(a) Inside

(i) Rate of 1st floor

(ii) Add 3% extra labour over ground floor

Add 15 % for O H and contractors profit on extra labour

= Rs. 58.62

= Rs. 0.89

Rs. 0.13

Total = Rs. 59.64 /Sqm.

(iv) Add Labour Cess 1%

Rs. 0.59

Total Rate/Sqm. = Rs. 60.23

(b) out side

(i) Rate of GF

(ii) Add 5% extra labour over ground floor

Add 15 % for O H and contractors profit on extra labour

= Rs. 59.29

= Rs. 1.52

Rs. 0.22

Total = Rs. 61.03 /Sqm.

(iv) Add Labour Cess 1%

Rs. 0.61

Total Rate/Sqm. = Rs. 61.64

18. 20mm. thick grading plaster in c.m. 1:4 over roof slab and chujja including cost conveyance and royalty of materials curing etc. complete as per direction of Engg-in-Charge.

(A) Ground Floor(i) Materials -

Sand(screened and washed) -  
Cement -

0.021 Cum @ Rs.

0.0744 Qntl. @ Rs.

76.88 /Cum. = Rs. 1.61

546.87 /qntl. = Rs. 40.68

Rs. 42.29

(ii) Labour - Mason (2nd Class) -

0.16 Nos. @ Rs.

562.00 /each = Rs. 89.92

Man mulia -

0.13 Nos. @ Rs.

462.00 /each = Rs. 60.06

Woman mulia -

0.11 Nos. @ Rs.

462.00 /each = Rs. 50.82

Rs. 200.80

(iii) Transportation -

Sand(screened and washed) -

0.021 Cum @ Rs.

731.71 /Cum. = Rs. 15.36

Cement -

0.0744 Qntl. @ Rs.

24.78 /qntl. = Rs. 1.84

Rs. 17.20

(iv) Royalty -

Sand(screened and washed) -

0.021 Cum @ Rs.

230.25 /Cum. = Rs. 4.84

(v) Add 15 % for OH &amp; Contractors profit

Rs. 36.46

**ANALYSIS OF RATES**  
(As per SR - 2022) (Kendrapada District)

					Rs.	301.59
(vii) Add Labour Cess 1%						
(B) <u>1st Floor</u>					Rs.	3.01
(i) Rate of GF					Total Rate/Sqm. =	Rs. 304.60
(ii) Add 5% extra labour over ground floor					= Rs.	301.59
Add 15 % for O H and contractors profit on extra labour					= Rs.	10.04
					Rs.	1.50
					Total =	Rs. 313.13 /Sqm.
(iv) Add Labour Cess 1%						
(C) <u>2nd Floor</u>					Rs.	3.13
(i) Rate of GF					Total Rate/Sqm. =	Rs. 316.26
(ii) Add 5% extra labour over ground floor					= Rs.	313.13
Add 15 % for O H and contractors profit on extra labour					= Rs.	10.54
					Rs.	1.58
					Total =	Rs. 325.25 /Sqm.
(iv) Add Labour Cess 1%						
19. 2.5cm.grading concrete (1:2:2) on roof slab using 6mm.size CBHG chips including cost,conveyance and royalty of materials curing etc.complete as per direction of Engg-in-Charge. (On new work)					Rs.	3.25
(A) <u>Ground Floor</u>					Total Rate/Sqm. =	Rs. 328.50
(i) Materials -						
C.B.H.G. chips 4.7mm.size	-	0.0169 Cum @ Rs.	850.20 /Cum. =	Rs.	14.36	
Sand(screened and washed)	-	0.0169 Cum @ Rs.	76.88 /Cum. =	Rs.	1.29	
Cement	-	0.1208 Qntl. @ Rs.	546.87 /qntl. =	Rs.	66.06	
				Rs.	81.71	
(ii) Labour -						
Mason 1 st class	-	0.10 Nos. @ Rs.	612.00 /each =	Rs.	61.20	
Man mulia	-	0.36 Nqs. @ Rs.	462.00 /each =	Rs.	166.32	
				Rs.	227.52	
(iii) Transportation -						
C.B.H.G. chips 4.7mm.size	-	0.0169 Cum @ Rs.	1229.91 /Cum. =	Rs.	20.78	
Sand(screened and washed)	-	0.0169 Cum @ Rs.	731.71 /Cum. =	Rs.	12.36	
Cement	-	0.1208 Qntl. @ Rs.	24.78 /qntl. =	Rs.	2.99	
				Rs.	36.13	
(iv) Royalty -						
C.B.H.G. chips 4.7mm.size	-	0.0169 Cum @ Rs.	444.50 /Cum. =	Rs.	7.51	
Sand(screened and washed)	-	0.0169 Cum @ Rs.	230.25 /Cum. =	Rs.	3.89	
				Rs.	11.40	
(v) Add 15 % for OH & Contractors profit					Rs.	46.38
					Total Rate/Sqm. =	Rs. 403.14
(vii) Add Labour Cess 1%						
(B) <u>1st Floor</u>					Rs.	4.03
(i) Rate of GF					Total Rate/Sqm. =	Rs. 407.17 /Sqm.
(ii) Add 15% extra labour over ground floor					= Rs.	403.14
Add 15 % for O H and contractors profit on extra labour					= Rs.	34.12
					Rs.	5.11
					Total =	Rs. 442.37 /Sqm.
(iv) Add Labour Cess 1%						
					Rs.	4.42



**ANALYSIS OF RATES****(As per SR - 2022) (Kendrapada District)**

<b>(C) 2nd Floor</b>			<b>Total Rate/Sqm. = Rs. 446.79</b>	
(i)	Rate of GF		= Rs.	442.37
(ii)	Add 15% extra labour over ground floor		= Rs.	39.24
	Add 15 % for O H and contractors profit on extra labour		Rs.	5.88
			<b>Total = Rs.</b>	<b>487.49 /Sqm.</b>
(iv) Add Labour Cess 1%			Rs.	4.87
<b>20. 4cm.thick grading concrete (1:2:4) on roof slab using 12mm.&amp; down grade size CBHG chips including cost,conveyance and royalty of materials curing etc.complete as per direction of Engg-in-Charge . (For old work)</b>			<b>Total Rate/Sqm. = Rs.</b>	<b>492.36</b>
<b>(A) Ground Floor</b>				
(i) Materials -				
	C.B H.G. chips 12mm.size -	0.018 Cum @ Rs.	1386.40 /Cum. = Rs.	24.95
	C.B H.G. chips 4.7mm.size -	0.018 Cum @ Rs.	850.20 /Cum. = Rs.	15.30
	Sand(screened and washed) -	0.018 Cum @ Rs.	76.88 /Cum. = Rs.	1.38
	Cement -	0.1287 Qntl. @ Rs.	546.87 /qntl. = Rs.	70.38
			Rs.	112.01
(ii) b)Labour -	Mason 1 st class -	0.165 Nos. @ Rs.	612.00 /each = Rs.	100.98
	Man m dia -	1.008 Nos. @ Rs.	462.00 /each = Rs.	465.69
			Rs.	566.67
(iii) c)Transportation . chips 12mm.size -		0.018 Cum @ Rs.	1229.91 /Cum. = Rs.	22.13
	C.B H.G. chips 4.7mm.size -	0.018 Cum @ Rs.	1229.91 /Cum. = Rs.	22.13
	Sand(screened and washed) -	0.018 Cum @ Rs.	731.71 /Cum. = Rs.	13.17
	Cement -	0.1287 Qntl. @ Rs.	24.78 /qntl. = Rs.	3.18
			Rs.	60.61
(iv) d)Royalty - . chips 12mm.size -		0.018 Cum @ Rs.	444.50 /Cum. = Rs.	8.00
	C.B H.G. chips 4.7mm.size -	0.018 Cum @ Rs.	444.50 /Cum. = Rs.	8.00
	Sand(screened and washed) -	0.018 Cum @ Rs.	230.25 /Cum. = Rs.	4.14
			Rs.	20.14
(v) Add 15 % for OH & Contractors profit			Rs.	101.80
			<b>Total Rate/Sqm. = Rs.</b>	<b>861.23</b>
(vii) Add Labour Cess 1%			Rs.	8.61
<b>(B) 1st Floor</b>			<b>Total Rate/Sqm. = Rs.</b>	<b>869.84</b>
(i)	Rate of GF		= Rs.	861.23
(ii)	Add 15% extra labour over ground floor		= Rs.	85.00
	Add 15 % for O H and contractors profit on extra labour		Rs.	12.75
			<b>Total = Rs.</b>	<b>958.98 /Sqm.</b>
(iv) Add Labour Cess 1%			Rs.	9.58
<b>(C) 2nd Floor</b>			<b>Total Rate/Sqm. = Rs.</b>	<b>968.56</b>
(i)	Rate of GF		= Rs.	958.98
(ii)	Add 15% extra labour over ground floor		= Rs.	97.75
	Add 15 % for O H and contractors profit on extra labour		Rs.	14.66
			<b>Total = Rs.</b>	<b>1,071.39 /Sqm.</b>
(iv) Add Labour Cess 1%			Rs.	10.71
			<b>Total Rate/Sqm. = Rs.</b>	<b>1,082.10</b>

**ANALYSIS OF RATES****(As per SR - 2022) (Kendrapada District)**

21. Supply fitting and fixing MS grill with Iron work wrought and put up in grated doors, windows and cage latrines, boundry wall spikes etc. complete as per direction of Engg-in-Charge.

Data for 0.508 Qtl. (as per AR-2006, Page No.-225, SI No.-4)

**(A) Ground Floor****(i) (a) Labour**

Black Smith(Special)	-	0.75 Nos. @ Rs.	612.00 /each = Rs.	459.00
Black Smith(2nd Class)	-	1.00 Nos. @ Rs.	562.00 /each = Rs.	562.00
fitter(Special)	-	1.00 Nos. @ Rs.	612.00 /each = Rs.	612.00
Fitter(2nd Class)	-	1.00 Nos. @ Rs.	562.00 /each = Rs.	562.00
Helper to Black Smith	-	1.00 Nos. @ Rs.	512.00 /each = Rs.	512.00
Man Mulia	-	3.25 Nos. @ Rs.	462.00 /each = Rs.	1,501.50
			for 0.508 Qtl = Rs.	4,208.50
			Rate per one Kg = Rs.	82.84 /Kg.

**(ii) Material**

Cost of MS Steel Section	-	1.00 Kg @ Rs.	67.94 /Kg = Rs.	67.94
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Total cost including materials and labour

**(iii) Add 15 % for OH & Contractors profit**

Total Rate/Kg =	Rs.	150.78
	Rs.	22.61
Total =	Rs.	173.39

**(v) Add Labour Cess 1%**

	Rs.	1.73
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Total Rate/Sqm. = Rs. 175.12 /Kg

22. A Supplying, fixing and Hoisting joists and trusses and placing in position to receive GCI roofing etc, as per direction of Engineer -in-charge.

Per 1 Qntl.

Data for 0.508 Qntl.

**(A) Ground Floor****(i) (a) Labour**

Sangi Mulia for conveying joist from outside to the buildings	0.25 Nos. @ Rs.	512.00 /each = Rs.	128.00
Sangi Mulia for lifting joists up to top of the walls with ropes, etc	0.75 Nos. @ Rs.	512.00 /each = Rs.	384.00
Man Mulia for placing joists in position	0.17 Nos. @ Rs.	462.00 /each = Rs.	78.54
		for 0.508 Qtl = Rs.	590.54
		for 1.00Qtl = Rs.	1,162.48 /Qtl.
		Rate per one Kg = Rs.	11.62 /Kg.

**(ii) Material**

Cost of structural section with febrication including 5.00% wastage &amp; connection

1.05 Kg @ Rs.	67.94 /Kg = Rs.	71.33
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**iii Febrication**

Febricated iron work(labour only) as per S/R-2022Page-224,item no.25.6.2

1.00 Qtl @ Rs.	355.25 /Qtl. = Rs.	3.55
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Total cost including materials and labour

**(iii) Add 15 % for OH & Contractors profit**

Total Rate/Kg =	Rs.	86.50 /Kg.
	Rs.	12.97
Total =	Rs.	99.47 /Kg.
	Rs.	0.99

**(v) Add Labour Cess 1%**

Total Rate/Sqm. = Rs. 100.46 /Kg.

23. A Iron work wrought and put up in trusses and record racks including all labour and Materials etc, as per direction of Engineer -in-charge.



**ANALYSIS OF RATES**  
**( As per SR - 2022 )(Kendrapada District)**

Per 1 Qntl.

Data for 0.508 Qntl.

**(A) Ground Floor****(i) (a) Labour**

Black smith (2nd Class)

1.25 Nos. @ Rs.

562.00 /each = Rs. 702.50

Fitter (2nd Class)

1.00 Nos. @ Rs.

562.00 /each = Rs. 562.00

Helper

1.00 Nos. @ Rs.

462.00 /each = Rs. 462.00

Man Mulia

2.50 Nos. @ Rs.

462.00 /each = Rs. 1,155.00

for 0.508 Qtl = Rs. 2,881.50

for 1.00Qtl = Rs. 5,672.24 /Qtl.

Rate per one Kg = Rs. 56.72 /Kg.

**(ii) Material**Cost of structural section with febrication  
including 5.00% wastage & connnection

1.05 Kg @ Rs.

67.94 /Kg = Rs. 71.33

**iii Febrication**Febricated iron work(labour only) as per S/R-  
2022Page-224,item no.25.6.2

1.00 Qtl @ Rs.

355.25 /Qtl. = Rs. 3.55

**(iii) Add 15 % for OH & Contractors profit**

Total Rate/Kg = Rs. 131.60 /Kg.

**(v) Add Labour Cess 1%**

Total = Rs. 151.34 /Kg.

Rs. 1.51

Total Rate/Sqm. = Rs. 152.85 /Kg.

24. A Drilling holes 6mm to 12mm dia in iron flats, angles, tees etc. of 6mm to 10mm  
thick with hand drill (labour only) Per each ( as per SR-2006, Page No-26, Sl. No.-  
7)

Data for 36 Nos. of holes

**(i) (a) Labour**

Fitter (2nd class)

1 Nos. @ Rs.

562.00 /each = Rs. 562.00

Manmulia

1 Nos. @ Rs.

462.00 /each = Rs. 462.00

for 36 nos = Rs. 1,024.00

Rate per one No = Rs. 28.44 /no

**(ii) Material**

MS screw 50x8mm (SR 2022, Page 55, Sl.140(n))

1.00 No @ Rs.

8.75 /No = Rs. 8.75

**(iii) Add 15 % for OH & Contractors profit**

Rs. 37.19 /no

Rs. 5.57

Total = Rs. 42.76 /no

Rs. 0.42

Total Rate/Sqm. = Rs. 43.18 /no

25. B Drilling holes 12mm to 25mm dia in iron flats, angles, tees etc. of 6mm to 10mm  
thick with hand drill(labour only) Per each ( as per SR-2006, Page No-27, Sl. No.-  
8)

Data for 66 Nos.

**(i) (a) Labour**

Fitter (2nd class)

1 Nos. @ Rs.

562.00 /each = Rs. 562.00

**ANALYSIS OF RATES**  
(As per SR - 2022) (Kendrapada District)

Manmulia	1 Nos. @ Rs.	462.00 /each = Rs.	462.00	
		for 27 nos = Rs.	1,024.00	
(ii) Material		Rate per one No = Rs.	37.92	/no
MS screw 50x8mm (SR 2022, Page 55, Sl.140(n))	1.00 No @ Rs.	8.75 /No = Rs.	8.75	
(iii) Add 15 % for OH & Contractors profit		Rs.	46.67	/no
		Rs.	7.00	
(v) Add Labour Cess 1%		Total = Rs.	53.67	/no
		Rs.	0.53	
		Total Rate/Sqm. = Rs.	54.20	/no
26. Red Oxide Priming one coat with Red oxide primer of approved quality etc. complete as per direction of Engg-in-Charge. Data for 9.30 Sqm..				
(A) <u>Ground Floor</u>				
(i) Labour				
Painter ( 1st class )	0.5 Nos. @ Rs.	612.00 /each = Rs.	306.00	
Man mulia	0.5 Nos. @ Rs.	462.00 /each = Rs.	231.00	
		Rs.	537.00	
(ii) Material		Rate per one Sqm. = Rs.	57.74	/Sqm.
Cost of red oxide Primer	0.75 litre/10 Sqm. 0.075 Ltre. @ Rs.	150.98 /ltre Rs.	11.32	
Total cost including materials and labour		Total Rate/Sqm. = Rs.	69.06	/Sqm.
(iii) Add 15 % for OH & Contractors profit		Rs.	10.35	
		Total = Rs.	79.41	
(v) Add Labour Cess 1%		Rs.	0.79	
		Total Rate/Sqm. = Rs.	80.20	/Sqm.
(B) <u>1st Floor</u>				
(i) Rate of GF				
(ii) Add 3% extra labour over ground floor		= Rs.	79.41	
Add 15 % for O H and contractors profit on extra labour		= Rs.	1.73	
		Rs.	0.25	
		Total = Rs.	81.39	/Sqm.
(iv) Add Labour Cess 1%		Rs.	0.81	
		Total Rate/Sqm. = Rs.	82.20	/Sqm.
(C) <u>2nd Floor</u>				
(i) Rate of 1st floor				
(ii) Add 3% extra labour over ground floor		= Rs.	81.39	
Add 15 % for O H and contractors profit on extra labour		= Rs.	1.78	
		Rs.	0.26	
		Total = Rs.	83.43	/Sqm.
(iv) Add Labour Cess 1%		Rs.	0.83	
		Total Rate/Sqm. = Rs.	84.26	/Sqm.
27. Enamel Painting two coats with enamel paint of approved quality etc. complete as per direction of Engg-in-Charge. Data for 9.30 Sqm..				
(A) <u>Ground Floor</u>				
(i) (a) Labour				
Painter ( 1st class )	1.25 Nos. @ Rs.	612.00 /each = Rs.	765.00	
Man mulia	1.00 Nos. @ Rs.	462.00 /each = Rs.	462.00	
Man mulia(for prep. surface)	0.10 Nos. @ Rs.	462.00 /each = Rs.	46.20	
		Rs.	1,273.20	



**ANALYSIS OF RATES**  
(As per SR - 2022) (Kendrapada District)

(ii) Material			Rate per one Sqm. = Rs.	136.90 /Sqm.
Cost of Paint				
	0.125 Ltr @ Rs.	205.61	/ltre = Rs.	25.70
Total cost including materials and labour			Total Rate/Sqm. = Rs.	25.70
(iii) Add 15 % for OH & Contractors profit			Total Rate/Sqm. = Rs.	162.60 /Sqm.
			Rs.	24.39
			Total = Rs.	186.99
(v) Add Labour Cess 1%			Rs.	1.86
(B) 1st Floor			Total Rate/Sqm. = Rs.	188.85 /Sqm.
(i) Rate of GF			= Rs.	186.99
(ii) Add 3% extra labour over ground floor			= Rs.	4.10
Add 15 % for O H and contractors profit on extra labour			Rs.	0.61
			Total = Rs.	191.70 /Sqm.
(iv) Add Labour Cess 1%			Rs.	1.91
(C) 2nd Floor			Total Rate/Sqm. = Rs.	193.61 /Sqm.
(i) Rate of 1st floor			= Rs.	191.70
(ii) Add 3% extra labour over ground floor			= Rs.	4.23
Add 15 % for O H and contractors profit on extra labour			Rs.	0.63
			Total = Rs.	196.56 /Sqm.
(iv) Add Labour Cess 1%			Rs.	1.96
			Total Rate/Sqm. = Rs.	198.52 /Sqm.
28. Enamel Painting two coats with enamel paint over one coat of primer of approved quality etc. complete as per direction of Engg-in-Charge.				
(A) Ground Floor				
Cost of Two coat Enamel paint			Rs.	188.85
Cost of one coat primer			Rs.	80.20
			Total Rate/Sqm. = Rs.	269.05 /Sqm.
(B) 1st Floor				
Cost of Two coat Enamel paint			Rs.	198.52
Cost of one coat primer			Rs.	82.20
			Total Rate/Sqm. = Rs.	280.72 /Sqm.
(C) 2nd Floor				
Cost of Two coat Enamel paint			Rs.	198.52
Cost of one coat primer			Rs.	84.26
			Total Rate/Sqm. = Rs.	282.78 /Sqm.
29. Cement washing one coats with cost of all labour & materials etc. complete as per direction of Engg-in-Charge.				
Data for 93.00 Sqm..				
(A) Ground Floor				
(i) Materials - Cement		1.0010 Qntl. @ Rs.	546.87 / qntl. = Rs.	547.41
(ii) Labour - Painter(2nd class)		0.75 Nos. @ Rs.	562.00 /each = Rs.	421.50
Man mulia		0.50 Nos. @ Rs.	462.00 /each = Rs.	231.00
			Rs.	652.50
(iii) Transportation - Cement		1.0010 Qntl. @ Rs.	24.78 / qntl. = Rs.	24.80
(iv) Add 15 % for OH & Contractors profit			Rs.	179.98

**ANALYSIS OF RATES**  
(As per SR - 2022) (Kendrapada District)

		Rs.	14.84 /Sqm.
(vi) Add Labour Cess 1%			
		Rs.	0.14
	or say Rate/Sqm.=	Rs.	14.98

(B) <u>1st Floor</u>			
(a) <u>Inside</u>			
(i) Rate of GF	= Rs.	14.84	
(ii) Add 3% extra labour over ground floor	= Rs.	0.21	
Add 15 % for O H and contractors profit on extra labour	Rs.	0.03	
	Total = Rs.	15.08	/Sqm.

(iv) Add Labour Cess 1%		Rs.	0.15
(b) <u>out side</u>	Total Rate/Sqm. =	Rs.	15.23
(i) Rate of GF	= Rs.	14.84	
(ii) Add 5% extra labour over ground floor	= Rs.	0.35	
Add 15 % for O H and contractors profit on extra labour	Rs.	0.05	
	Total = Rs.	15.24	/Sqm.

(iv) Add Labour Cess 1%		Rs.	0.15
(C) <u>2nd Floor</u>	Total Rate/Sqm. =	Rs.	15.39
(a) <u>Inside</u>			
(i) Rate of 1st floor	= Rs.	15.08	
(ii) Add 3% extra labour over ground floor	= Rs.	0.21	
Add 15 % for O H and contractors profit on extra labour	Rs.	0.03	
	Total = Rs.	15.32	/Sqm.

(iv) Add Labour Cess 1%		Rs.	0.15
(b) <u>out side</u>	Total Rate/Sqm. =	Rs.	15.47
(i) Rate of GF	= Rs.	15.24	
(ii) Add 5% extra labour over ground floor	= Rs.	0.36	
Add 15 % for O H and contractors profit on extra labour	Rs.	0.05	
	Total = Rs.	15.65	/Sqm..

(iv) Add Labour Cess 1%		Rs.	0.15
	Total Rate/Sqm. =	Rs.	15.80

30. Finishing wall surface of walls with Acrylic wall putty (Water based) of approved make and finished smooth and even surface to receive painting including cost of scaffolding staging charges with cost of all materials taxes, labour T & P etc. complete as per direction of Engg-in-Charge.  
Data for 10.00 sqm. -

(A) <u>Ground Floor</u>			
(i) a) Materials -			
Cement based putty	- 8.00 kg. @ Rs.	30.00 /kg. = Rs.	240.00
(ii) b) Labour -			
Painter 2nd class	- 0.50 Nos. @ Rs.	562.00 /each. = Rs.	281.00
Mulia	- 0.57 Nos. @ Rs.	462.00 /each. = Rs.	263.34
		Rs.	544.34
(iii) Add 15 % for OH & Contractors profit		Rs.	117.65
	Total Rate/ 10.00 sqm. =	Rs.	901.99
	or say Rate/Sqm.=	Rs.	90.19



**ANALYSIS OF RATES**  
(As per SR - 2022) (Kendrapada District)

(v) Add Labour Cess 1%

**(B) 1st Floor**

**(a) Inside**

(i) Rate of GF

(ii) Add 3% extra labour over ground floor

Add 15 % for O H and contractors profit on extra labour

(iv) Add Labour Cess 1%

**(b) out side**

(i) Rate of GF

(ii) Add 5% extra labour over ground floor

Add 15 % for O H and contractors profit on extra labour

(iv) Add Labour Cess 1%

**(C) 2nd Floor**

**(a) Inside**

(i) Rate of 1st floor

(ii) Add 3% extra labour over ground floor

Add 15 % for O H and contractors profit on extra labour

(iv) Add Labour Cess 1%

**(b) out side**

(i) Rate of GF

(ii) Add 5% extra labour over ground floor

Add 15 % for O H and contractors profit on extra labour

(iv) Add Labour Cess 1%

31. Wall Priming one coats on new work with wall water bound primer of approved shade as per direction of Engg-in-Charge.  
Data for 10 Sqm..

**(A) Ground Floor**

**(i) Materials -**

Cost of primer

**(ii) Labour -**

Painter (1st class)

Man mulia

0.84 kg @ Rs.

0.5 Nos. @ Rs.

0.50 Nos. @ Rs.

(iii) Add 15 % for OH & Contractors profit

(v) Add Labour Cess 1%

**(B) 1st Floor -(In side)**

$$\text{Total Rate/Sqm.} = \frac{\text{Rs. } 0.90}{\text{Rs. } 91.09} \text{ /Sqm.}$$

$$= \text{Rs. } 90.19$$

$$= \text{Rs. } 1.63$$

$$\text{Rs. } 0.24$$

$$\text{Total} = \text{Rs. } 92.06 \text{ /Sqm.}$$

$$\text{Rs. } 0.92$$

$$\text{Total Rate/Sqm.} = \frac{\text{Rs. } 0.92}{\text{Rs. } 92.98}$$

$$= \text{Rs. } 90.19$$

$$= \text{Rs. } 2.72$$

$$\text{Rs. } 0.40$$

$$\text{Total} = \text{Rs. } 93.31 \text{ /Sqm.}$$

$$\text{Rs. } 0.93$$

$$\text{Total Rate/Sqm.} = \frac{\text{Rs. } 0.93}{\text{Rs. } 94.24}$$

$$= \text{Rs. } 92.06$$

$$= \text{Rs. } 1.68$$

$$\text{Rs. } 0.25$$

$$\text{Total} = \text{Rs. } 93.99 \text{ /Sqm.}$$

$$\text{Rs. } 0.93$$

$$\text{Total Rate/Sqm.} = \frac{\text{Rs. } 0.93}{\text{Rs. } 94.92}$$

$$= \text{Rs. } 93.31$$

$$= \text{Rs. } 2.85$$

$$\text{Rs. } 0.42$$

$$\text{Total} = \text{Rs. } 96.58 \text{ /Sqm.}$$

$$\text{Rs. } 0.96$$

$$\text{Total Rate/Sqm.} = \frac{\text{Rs. } 0.96}{\text{Rs. } 97.54}$$

$$159.30 \text{ /litre} = \text{Rs. } 133.81$$

$$612.00 \text{ /each} = \text{Rs. } 306.00$$

$$462.00 \text{ /each} = \text{Rs. } 231.00$$

$$\text{Rs. } 537.00$$

$$\text{Rs. } 100.62$$

$$\text{or say Rate/10.00 Sqm.} = \text{Rs. } 771.43$$

$$\text{Rs. } 7.71$$

$$\text{or say Rate/10.00 Sqm.} = \text{Rs. } 779.14$$

$$\text{or say Rate/1 Sqm.} = \text{Rs. } 77.91 \text{ /Sqm.}$$

**ANALYSIS OF RATES**  
(As per SR - 2022) (Kendrapada District)

- (i) GF Rate  
(ii) Add

3% extra labour	1.61	+	OH & CP	Rs.	77.14
			0.24	Rs.	1.85
			Total	Rs.	78.99 /Sqm.

- (iv) Add Labour Cess 1%

	Rs.	0.78
or say Rate/Sqm.=	Rs.	79.77 /Sqm.

**(C) 2nd Floor -(In side)**

- (i) 1st Floor Rate  
(ii) Add

3% extra labour	1.65	+	OH & CP	Rs.	78.99
			0.24	Rs.	1.89
			Total	Rs.	80.88 /Sqm.

- (iv) Add Labour Cess 1%

	Rs.	0.80
or say Rate/Sqm.=	Rs.	81.68 /Sqm.

32. Wall painting two coats with Plastic emulsion paint of approved shade as per direction of Engg-in-Charge.  
Data for 10.00 Sqm..

**(A) Ground Floor**

- (i) Materials -

Cost of Plastic emulsion paint

1.25 kg @ Rs. 249.61 /litre = Rs. 312.01

- (ii) Labour -

Painter ( 1st class )

0.54 Nos. @ Rs. 612.00 / each = Rs. 330.48

Man mulia

0.54 Nos. @ Rs. 462.00 / each = Rs. 249.48

Man mulia (for prep. surface)

0.10 Nos. @ Rs. 462.00 / each = Rs. 46.20

Rs. 626.16

- (iii) Add 15 % for OH & Contractors profit

	Rs.	140.72
or say Rate/10.00 Sqm.. =	Rs.	1,078.89

- (v) Add Labour Cess 1%

	Rs.	10.78
Total Rate/10 Sqm. =	Rs.	1,089.67
Total Rate/Sqm. =	Rs.	108.96 /Sqm.

**(B) (ii) 1st Floor -(In side)**

- (i) GF Rate  
(ii) Add

3% extra labour	1.87	+	OH & CP	Rs.	108.96
			0.28	Rs.	2.15
			Total	Rs.	111.11 /Sqm.

- (iv) Add Labour Cess 1%

	Rs.	1.11
or say Rate/Sqm.=	Rs.	112.22 /Sqm.

**(C) 2nd Floor -(In side)**

- (i) 1st Floor Rate  
(ii) Add

3% extra labour	1.93	+	OH & CP	Rs.	111.11
			0.28	Rs.	2.21
			Total	Rs.	113.32 /Sqm.

- (iv) Add Labour Cess 1%

	Rs.	1.13
or say Rate/Sqm.=	Rs.	114.45 /Sqm.

33. Wall painting two coats on new work with Weather coat paint of approved shade as per direction of Engg-in-Charge.



**ANALYSIS OF RATES**  
(As per SR - 2022)(Kendrapada District)

Data for 10.00 Sqm..

(A) Ground Floor

## (i) a) Materials -

Cost of Weather coat paint

1.25 kg @ Rs.

191.62 /litre = Rs. 239.52

## (ii) b) Labour -

Painter ( 1st class )

0.52 Nos. @ Rs.

612.00 /each = Rs. 318.24

Man mulia

0.62 Nos. @ Rs.

462.00 /each = Rs. 286.44

## (iii) Add 15 % for OH &amp; Contractors profit

Rs. 604.68

Rs. 126.63

or say Rate/10.00 Sqm.. = Rs. 970.83

Rs. 97.08 /Sqm.

## (v) Add Labour Cess 1%

Rs. 0.97

Total Rate/Sqm. = Rs. 98.05 /Sqm.

(B) 1st Floor(a) Inside

## (i) Rate of GF

= Rs. 97.08

## (ii) Add 3% extra labour over ground floor

= Rs. 1.81

Add 15 % for O H and contractors profit on extra labour

Rs. 0.27

Total = Rs. 99.16 /Sqm.

## (iv) Add Labour Cess 1%

Rs. 0.99

Total Rate/Sqm. = Rs. 100.15

(b) out side

## (i) Rate of GF

= Rs. 97.08

## (ii) Add 5% extra labour over ground floor

= Rs. 3.02

Add 15 % for O H and contractors profit on extra labour

Rs. 0.45

Total = Rs. 100.55 /Sqm.

## (iv) Add Labour Cess 1%

Rs. 1.00

Total Rate/Sqm. = Rs. 101.55

(C) 2nd Floor(a) Inside

## (i) Rate of 1st floor

= Rs. 99.16

## (ii) Add 3% extra labour over ground floor

= Rs. 1.86

Add 15 % for O H and contractors profit on extra labour

Rs. 0.27

Total = Rs. 101.29 /Sqm.

## (iv) Add Labour Cess 1%

Rs. 1.01

Total Rate/Sqm. = Rs. 102.30

(b) out side

## (i) Rate of GF

= Rs. 100.55

## (ii) Add 5% extra labour over ground floor

= Rs. 3.17

Add 15 % for O H and contractors profit on extra labour

Rs. 0.47

Total = Rs. 104.19 /Sqm.

## (iv) Add Labour Cess 1%

Rs. 1.04

Total Rate/Sqm. = Rs. 105.23

34. Wall painting two coats on new work with Distemper of approved shade etc. complete as per direction of Engg-in-Charge.

Data for 10.00 Sqm..

(A) Ground Floor

## (i) a) Materials -

**ANALYSIS OF RATES****(As per SR - 2022) (Kendrapada District)**

Cost of Weather coat paint	2.50 kg @ Rs.	70.35 /ltre = Rs.	175.86
(ii) b) Labour -			
Painter (1st class)	- 0.52 Nos. @ Rs.	612.00 /each = Rs.	318.24
Man mulia	- 0.62 Nos. @ Rs.	462.00 /each = Rs.	286.44
		Rs.	604.68
(iii) Add 15 % for OH & Contractors profit		Rs.	117.08
		or say Rate/10.00 Sqm. = Rs.	897.62
		Total Rate/Sqm. = Rs.	89.76 /Sqm.
(v) Add Labour Cess 1%		Rs.	0.89
		Rs.	90.65 /Sqm.
(B) <u>1st Floor</u>			
(i) Rate of GF		= Rs.	89.76
(ii) Add 3% extra labour over ground floor		= Rs.	1.81
Add 15 % for O H and contractors profit on extra labour		Rs.	0.27
		Total = Rs.	91.84 /Sqm.
(iv) Add Labour Cess 1%		Rs.	0.91
		Total Rate/Sqm. = Rs.	92.75 /Sqm.
(C) <u>2nd Floor</u>			
(i) Rate of 1st floor		= Rs.	91.84
(ii) Add 3% extra labour over ground floor		= Rs.	0.58
Add 15 % for O H and contractors profit on extra labour		Rs.	0.08
		Total = Rs.	92.50 /Sqm.
(iv) Add Labour Cess 1%		Rs.	0.92
		Total Rate/Sqm. = Rs.	93.42 /Sqm.
35. Fixing colour Vitrified tiles in floors (Printed Series) of size 600mm x600 mm of approved make conforming IS:13755 laid on 20 mm thick cement mortar (1:4) and filling joints with white cement of approved quality including cost of all materials, labour T&P etc required for the work all complete as per direction of Engineer-in-charge. Data for 10 Sqm.			
(A) <u>Ground Floor</u>			
(i) a) Materials -			
Sand(screened and washed)	- 0.21 Cum @ Rs.	76.88 /Cum. = Rs.	16.14
Cement	- 1.0740 Qntl. @ Rs.	546.87 /qntl. = Rs.	587.33
White Cement	0.0760 Qntl. @ Rs.	1725.00 /qntl. = Rs.	131.10
Cost of vitrified tile	- 10.00 Sqm. @ Rs.	689.20 /Sqm. = Rs.	6,892.00
		Rs.	7,626.57
(ii) b) Labour -			
Mason (Spl.)	- 2.16 Nos. @ Rs.	612.00 /each = Rs.	1,321.92
Mulia	- 2.16 Nos. @ Rs.	462.00 /each = Rs.	997.92
		Rs.	2,319.84
(iii) c) Transportation -			
Sand(screened and washed)	- 0.210 Cum @ Rs.	731.71 /Cum. = Rs.	153.65
Tiles	- 10.00 Sqm. @ Rs.	12.87 /Sqm. = Rs.	128.73
Cement	- 1.0740 Qntl. @ Rs.	24.78 /qntl. = Rs.	26.61
		Rs.	308.99
(iv) d) Royalty -			
Sand(screened and washed)	- 0.210 Cum @ Rs.	230.25 /Cum. = Rs.	48.35
(v) Add 15 % for OH & Contractors profit		Rs.	1,491.96
		Total Rate/10Sqm. = Rs.	11,795.71



**ANALYSIS OF RATES**  
(As per SR - 2022) (Kendrapada District)

or say Rate/Sqm. = Rs. 1,179.57 /Sqm.

(vii) Add Labour Cess 1%

Rs. 11.79  
Rs. 1,191.36 /Sqm.

(B) 1st Floor

(i) Rate of GF

(ii) Add 5% extra labour over ground floor

Add 15 % for O H and contractors profit on extra labour

= Rs. 1,179.57

= Rs. 11.59

Rs. 1.73

Total = Rs. 1,192.89 /Sqm.

(iv) Add Labour Cess 1%

(C) 2nd Floor

(i) Rate of 1st floor

(ii) Add 5% extra labour over ground floor

Add 15 % for O H and contractors profit on extra labour

Rs. 11.92  
Total Rate/Sqm. = Rs. 1,204.81 /Sqm.

= Rs. 1,192.89

= Rs. 12.17

Rs. 1.82

Total = Rs. 1,206.88 /Sqm.

(iv) Add Labour Cess 1%

Rs. 12.06  
Total Rate/Sqm. = Rs. 1,218.94 /Sqm.

36. Fixing Vitrified tiles in dados (Printed Series) skirting and risers of stepson 12 mm thick cement plaster(1:3) jointed with neat cement slurry mixed with pigments to match shade of the tiles including rubbing and polishing complete as per direction of Engineer-in-charge.  
Data for 10 Sqm.

(A) Ground Floor

(i) Materials -

Sand(screened and washed)

Cement

Cement for Slurry

Cost of Vitrified tile

- 0.15 Cum @ Rs.  
- 1.0740 Qntl. @ Rs.  
- 0.6600 Qntl. @ Rs.  
- 10.00 Sqm. @ Rs.

76.88 /Cum. = Rs. 11.53  
546.87 /qntl. = Rs. 587.33  
546.87 /qntl. = Rs. 360.93  
689.20 /Sqm. = Rs. 6,892.00  
Rs. 7,851.79

(ii) Labour -

Mason (Spl.)

Mulia

Semi Skilled Mulia for rubbing

- 3.25 Nos. @ Rs.  
- 3.25 Nos. @ Rs.  
- 7.60 Nos. @ Rs.

612.00 /each = Rs. 1,989.00  
462.00 /each = Rs. 1,501.50  
512.00 /each = Rs. 3,891.20  
Rs. 7,381.70

(iii) Transportation -

Sand(screened and washed)

Tiles

Cement

- 0.150 Cum @ Rs.  
- 10.00 Sqm. @ Rs.  
- 1.7340 Qntl. @ Rs.

731.71 /Cum. = Rs. 109.75  
12.87 /Sqm. = Rs. 128.73  
24.78 /qntl. = Rs. 42.96  
Rs. 281.44

(iv) Royalty -

Sand(screened and washed)

- 0.150 Cum @ Rs.

230.25 /Cum. = Rs. 34.53

(v) Add 15 % for OH & Contractors profit

RATE FOR

Rs. 2,285.02  
Total Rate/10Sqm. = Rs. 17,834.48

or say Rate/Sqm. = Rs. 1,783.44 /Sqm.

(vii) Add Labour Cess 1%

Rs. 17.83

Rs. 1,801.27 /Sqm.

(B) 1st Floor

(i) Rate of GF

(ii) Add 5% extra labour over ground floor

= Rs. 1,783.44

= Rs. 36.90

**ANALYSIS OF RATES**  
(As per SR - 2022 )(Kendrapada District)

Add 15 % for O H and contractors profit on extra labour

$$\text{Total} = \frac{\text{Rs. } 5.53}{\text{Rs. } 1,825.87} \text{ /Sqm.}$$

(iv) Add Labour Cess 1%

**(C) 2nd Floor**

(i) Rate of 1st floor

(ii) Add 5% extra labour over ground floor

Add 15 % for O H and contractors profit on extra labour

$$\text{Total Rate/Sqm.} = \frac{\text{Rs. } 18.25}{\text{Rs. } 1,844.12} \text{ /Sqm.}$$

$$= \text{Rs. } 1,825.87$$

$$= \text{Rs. } 38.75$$

$$\text{Rs. } 5.81$$

$$\text{Total} = \frac{\text{Rs. } 1,870.43}{\text{Rs. } 1,870.43} \text{ /Sqm.}$$

(iv) Add Labour Cess 1%

$$\text{Total Rate/Sqm.} = \frac{\text{Rs. } 18.70}{\text{Rs. } 1,889.13} \text{ /Sqm.}$$

37. Supply ,Fixing Vitrified industrial Tile of premium grade having thickness 8mm to 10mm conforming to IS 4457 of size 300mmx300mm in floors,treads or steps and landings on 25 mm thick CM (1:1) jointed with neat cement slurry mixed with pigments to match the shades includind cost for rubbing, polishing & cost of marbel tiles etc. complete as per direction of Engg-in-Charge .  
Data for 10 Sqm.

**(A) Ground Floor**

(i) a)Materials -

Sand(screened and washed)

Cement

Cost of tile

0.13 Cum @ Rs.

2.737 Qntl. @ Rs.

10.30 Sqm. @ Rs.

$$76.88 \text{ /Cum.} = \text{Rs. } 9.99$$

$$546.87 \text{ /qntl.} = \text{Rs. } 1,496.78$$

$$578.35 \text{ /Sqm.} = \text{Rs. } 5,783.50$$

$$\text{Rs. } 7,290.27$$

(ii) b)Labour -

Mason (Spl.)

Semi skilled mulia

Mulia

2.16 Nos. @ Rs.

5.50 Nos. @ Rs.

2.16 Nos. @ Rs.

$$612.00 \text{ /each} = \text{Rs. } 1,321.92$$

$$512.00 \text{ /each} = \text{Rs. } 2,816.00$$

$$462.00 \text{ /each} = \text{Rs. } 997.92$$

$$\text{Rs. } 5,135.84$$

(iii) c)Transportation -

Sand(screened and washed)

Tiles

Cement

0.130 Cum @ Rs.

10.00 Sqm. @ Rs.

2.7370 Qntl. @ Rs.

$$731.71 \text{ /Cum.} = \text{Rs. } 95.12$$

$$12.87 \text{ /Sqm.} = \text{Rs. } 128.73$$

$$24.78 \text{ /qntl.} = \text{Rs. } 67.82$$

$$\text{Rs. } 291.67$$

(iv) d)Royalty -

Sand(screened and washed)

Add 15 % for OH & Contractors profit

0.130 Cum @ Rs.

$$230.25 \text{ /Cum.} = \text{Rs. } 29.93$$

$$\text{Rs. } 186.39$$

$$\text{Total Rate/10Sqm.} = \text{Rs. } 12,934.10$$

$$\text{or say Rate/Sqm.} = \text{Rs. } 1,293.41 \text{ /Sqm.}$$

$$\text{Rs. } 8.50$$

$$\text{Rs. } 1,301.91$$

(v) Add for wax polishing

(vii) Add Labour Cess 1%

**(B) 1st Floor**

(i) Rate of GF

(ii) Add 5% extra labour over ground floor

Add 15 % for O H and contractors profit on extra labour

$$\text{Rs. } 13.01$$

$$\text{Rs. } 1,314.92 \text{ /Sqm.}$$

$$= \text{Rs. } 1,301.91$$

$$= \text{Rs. } 25.67$$

$$\text{Rs. } 3.85$$

$$\text{Total} = \frac{\text{Rs. } 1,331.43}{\text{Rs. } 1,331.43} \text{ /Sqm.}$$

(iv) Add Labour Cess 1%

$$\text{Total Rate/Sqm.} = \frac{\text{Rs. } 13.31}{\text{Rs. } 1,344.74} \text{ /Sqm.}$$



**ANALYSIS OF RATES**  
(As per SR - 2022) (Kendrapada District)

(C) <u>2nd Floor</u>				
(i)	Rate of 1st floor		= Rs.	1,331.43
(ii)	Add 5% extra labour over ground floor		= Rs.	26.96
	Add 15 % for O H and contractors profit on extra labour		Rs.	4.04
			Total = Rs.	1,362.43 /Sqm.
(iv)	Add Labour Cess 1%			
			Rs.	13.62
38.	Fixing Floor tiles in floors, treads or steps and landings on 25 mm thick CM (1:1) jointed with neat cement slurry mixed with pigments to match the shades including cost for rubbing, polishing & cost of marble tiles etc. complete as per direction of Engg-in-Charge. Data for 10 Sqm.		Total Rate/Sqm. =	Rs. 1,376.05 /Sqm.
(A) <u>Ground Floor</u>				
(i)	a) Materials -			
	Sand (screened and washed)	- 0.13 Cum @ Rs.	76.88 /Cum. = Rs.	9.99
	Cement	- 2.7370 Qntl. @ Rs.	546.87 /qntl. = Rs.	1,496.78
	Cost of floor tile	- 10.00 Sqm. @ Rs.	450.08 /Sqm. = Rs.	4,500.80
			Rs.	6,007.57
(ii)	b) Labour -			
	Mason (Spl.)	- 2.16 Nos. @ Rs.	612.00 /each = Rs.	1,321.92
	Semi skilled mulia	- 5.50 Nos. @ Rs.	512.00 /each = Rs.	2,816.00
	Mulia	- 2.16 Nos. @ Rs.	462.00 /each = Rs.	997.92
			Rs.	5,135.84
(iii)	c) Transportation -			
	Sand (screened and washed)	- 0.130 Cum @ Rs.	731.71 /Cum. = Rs.	95.12
	Tiles	- 10.00 Sqm. @ Rs.	12.87 /Sqm. = Rs.	128.73
	Cement	- 2.7370 Qntl. @ Rs.	24.78 /qntl. = Rs.	67.82
			Rs.	291.67
(iv)	d) Royalty -			
	Sand (screened and washed)	- 0.130 Cum @ Rs.	230.25 /Cum. = Rs.	29.93
	Add 15 % for OH & Contractors profit		Rs.	167.15
	<u>RATE FOR</u>		Total Rate/10Sqm. =	Rs. 11,632.16
	(i) Ground Floor -		or say Rate/Sqm. =	Rs. 1,163.21 /Sqm.
(v)	Add for wax polishing		Rs.	8.50
			Rs.	1,171.71
(vii)	Add Labour Cess 1%		Rs.	11.71
			Rs.	1,183.42 /Sqm.
(B) <u>1st Floor</u>				
(i)	Rate of GF		= Rs.	1,171.71
(ii)	Add 5% extra labour over ground floor		= Rs.	25.67
	Add 15 % for O H and contractors profit on extra labour		Rs.	3.85
			Total = Rs.	1,201.23 /Sqm.
(iv)	Add Labour Cess 1%			
			Rs.	12.01
(C) <u>2nd Floor</u>			Total Rate/Sqm. =	Rs. 1,213.24 /Sqm.
(i)	Rate of 1st floor		= Rs.	1,201.23
(ii)	Add 5% extra labour over ground floor		= Rs.	26.96
	Add 15 % for O H and contractors profit on extra labour		Rs.	4.04
			Total = Rs.	1,232.23 /Sqm.
(iv)	Add Labour Cess 1%			
			Rs.	12.32
			Total Rate/Sqm. =	Rs. 1,244.55 /Sqm.

**ANALYSIS OF RATES****(As per SR - 2022 )(Kendrapada District)**

39. Fixing Ceramic Glazed wall tiles in dados skirting and risers of stepson 12 mm thick cement plaster(1:3) jointed with neat cement slurry mixed with pigments to match shade of the tiles including rubbing and polishing complete as per direction of Engineer-in-charge.

Data for 10 Sqm.

**(A) Ground Floor****(i) a) Materials -**

Sand(screened and washed)	-	0.15 Cum @ Rs.	76.88 /Cum. = Rs.	11.53
Cement	-	0.715 Qntl. @ Rs.	546.87 / qntl. = Rs.	391.01
Cement for Slurry	-	0.66 Qntl. @ Rs.	546.87 / qntl. = Rs.	360.93
Cost of Glazed wall tile	-	10.00 Sqm. @ Rs.	405.20 /Sqm. = Rs.	4,052.00
			Rs.	4,815.47

**(ii) b) Labour -**

Mason (Spl.)	-	3.25 Nos. @ Rs.	612.00 /each = Rs.	1,989.00
Mulia	-	3.25 Nos. @ Rs.	462.00 /each = Rs.	1,501.50
Semi Skilled Mulia for rubbing	-	7.60 Nos. @ Rs.	512.00 /each = Rs.	3,891.20
			Rs.	7,381.70

**(iii) c) Transportation -**

Sand(screened and washed)	-	0.150 Cum @ Rs.	731.71 /Cum. = Rs.	109.75
Tiles	-	10.00 Sqm. @ Rs.	12.87 /Sqm. = Rs.	128.73
Cement	-	1.3750 Qntl. @ Rs.	24.78 / qntl. = Rs.	34.07
			Rs.	272.55

**(iv) d) Royalty -**

Sand(screened and washed)	-	0.150 Cum @ Rs.	230.25 /Cum. = Rs.	34.53
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Add 15 % for OH &amp; Contractors profit

**(v) Add for wax polishing**

	Rs.	1,829.57
Total Rate/10Sqm. =	Rs.	14,333.82
or say Rate/Sqm. =	Rs.	1,433.38 /Sqm.
	Rs.	8.50
	Rs.	1,441.88

**(vii) Add Labour Cess 1%**

	Rs.	14.41
	Rs.	1,456.29 /Sqm.

**(B) 1st Floor****(i) Rate of GF****(ii) Add 5% extra labour over ground floor**

Add 15 % for O H and contractors profit on extra labour

=	Rs.	1,441.88
=	Rs.	36.90
	Rs.	5.53
Total =	Rs.	1,484.31 /Sqm.

**(iv) Add Labour Cess 1%**

	Rs.	14.84
Total Rate/Sqm. =	Rs.	1,499.15 /Sqm.

**(C) 2nd Floor****(i) Rate of 1st floor****(ii) Add 5% extra labour over ground floor**

Add 15 % for O H and contractors profit on extra labour

=	Rs.	1,484.31
=	Rs.	38.75
	Rs.	5.81
Total =	Rs.	1,528.87 /Sqm.

**(iv) Add Labour Cess 1%**

	Rs.	15.28
Total Rate/Sqm. =	Rs.	1,544.15 /Sqm.



**ANALYSIS OF RATES****(As per SR - 2022) (Kendrapada District)**

40. 30 mm thick Fiberglass Reinforced Plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF) / Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically with testing parameters of F.R.P. laminate conforming to table - 3 of IS: 14856, complete including Providing and fixing factory made door frame (single rebate) made out of single piece extruded solid PVC foam profile with homogenous fine cellular structure having smooth outer integral skin having 62 mm width & 32 mm thickness, frame will be mitred & jointed with self driven self tapping screws of size 38 mm x 4 mm & PVC solvent cement, including fixing the frame to wall with suitable dia & length anchor fastener as per manufacturer's specification and direction of Engineer-in-charge.

**1. Part (A) Door Shutter**

Details of cost for one door shutter 2.20x1.08m = 2.38 Sqm.

(i) Materials -				
30 mm thick factory made glass fiber reinforced plastic flush door shutter i/c carriage	2.380 Sqm. @ Rs.	4270.00 /Sqm.=	Rs.	10,162.60
3 Powder coated M.S. butt hinges 100 mm X 58 mm X 1.9 mm	6.000 Nos. @ Rs.	45.00 /each =	Rs.	270.00
Bright finished or black enameled mild steel screws 40 mm	48.000 Nos. @ Rs.	0.52 /each =	Rs.	24.96
Bright finished or black enameled mild steel screws 20 mm	8.000 Nos. @ Rs.	0.32 /each =	Rs.	2.56
SS Tower Bolt	1.000 Nos. @ Rs.	45.00 /each =	Rs.	45.00
SS Door Bolt	1.000 Nos. @ Rs.	118.00 /each =	Rs.	118.00
SS Handle	2.000 Nos. @ Rs.	55.00 /each =	Rs.	110.00
(ii) Labour - Carpenter -			Rs.	10,733.12
Man mulia -	0.40 Nos. @ Rs.	612.00 /each =	Rs.	244.80
	0.40 Nos. @ Rs.	462.00 /each =	Rs.	184.80
(iii) Add 15 % for OH & Contractors profit			Rs.	429.60
			Rs.	1,674.40
		Total Rate/ 2.38 Sqm. =	Rs.	12,837.12
		or say Rate/Sqm.=	Rs.	5,393.74
(v) Add Labour Cess 1%			Rs.	53.93
		or say Rate/Sqm.=	Rs.	5,447.67 /Sqm.

**2. Part (B) Door Frame**

Details of cost for one door frame of 5 metre

(i) Materials -				
Factory made solid PVC door frame 60 x 30 mm i/c carriage	5.000 Rm @ Rs.	582.54 /Rm. =	Rs.	2,912.68
(ii) Labour - Carpenter -			Rs.	2,912.68
Man mulia -	0.15 Nos. @ Rs.	612.00 /each =	Rs.	91.80
	0.15 Nos. @ Rs.	462.00 /each =	Rs.	69.30
(iii) Add 15 % for O H and contractors profit (a+b)			Rs.	161.10
			Rs.	461.06
		Total Rate/ 5.0Rm =	Rs.	3,534.84
		or say Rate/Rm. =	Rs.	706.96
(v) Add Labour Cess 1%			Rs.	7.06
		or say Rate/Rm. =	Rs.	714.02 /Rm

**ANALYSIS OF RATES****(As per SR - 2022) (Kendrapada District)**

Details of cost for one door shutter 2.20x1.08m = 2.38 Sqm.

Total = part(A)+Part(B)

Part A

Part B= 2x2.20m + 1.08m = 5.48Rm

= 2.38 Sqm.. @ Rs.  
5.45 Rm. @ Rs.

5447.67 /Sqm. = Rs. 12,965.45 /Sqm.  
714.02 /Rm = Rs. 3,891.41 /Sqm.

Total Rate/ 2.38 Sqm. = Rs. 16,856.86

Total Rate/ Sqm. = Rs. 8,717.76 /Sqm.

41. Supplying, fitting & fixing of stainless steel of 304 grade in **Hand Railing** using 50mm. Dia of 2mm. thick circular pipe with Balustrade of size 32mm.x32mm.x2mm. @ 0.90m. C/C and stainless square pipe bracing of size 32mm.x32mm.x2mm. In 3 rows in stair case as per approved design and specification, buffing, polishing etc. with cost, conveyance, taxes of all materials labour T & P etc. required for the completion in all respect etc. complete as per direction of Engg-in-Charge.

Data for 3.26 Rmt. -

- (i) Materials -

Railing - 50mm. outer dia of 2mm.

Thick - 3.26m. @ 3.5 kg./m. =

- 11.41 kg. @ Rs.

240.24 /kg. = Rs. 2,741.13

Balustrade of size

32mm.x32mm.x2mm. - 4x0.90m. =

3.60. @ 1.70kg./m. =

- 6.12 kg. @ Rs.

256.62 /kg. = Rs. 1,570.51

Stainless steel square pipe bracing

of size 32mm.x32mm.x2mm. In 3

rows (3x3.26m. = 9.78m. @

1.70kg./m. =

- 16.63 kg. @ Rs.

256.62 /kg. = Rs. 4,267.59

Fabrication,

polishing etc. 2% =

- 34.16 kg. @ Rs.

10.00 /kg. = Rs. 341.60

Rs. 171.58

Rs. 9,092.41

- (ii) b) Labour -

High skilled labour

0.89 Nos. @ Rs.

612.00 /each. = Rs. 544.68

S.S. labour

0.89 Nos. @ Rs.

512.00 /each. = Rs. 455.68

Rs. 1,000.36

Rs. 1,513.91

- (iii) Add 15 % for OH & Contractors pre

Total Rate/ 3.26 m. = Rs. 11,606.68

or say Rate/Rmt. = Rs. 3,560.33 /Rmt.

- (v) Add Labour Cess 1%

Rs. 35.60

or say Rate/Rmt. = Rs. 3,595.93 /Rmt.



**Analysis of Rates (Electrical)**  
**Wiring in PVC Conduit with Modular Type Switch**

- 1.1 Recessed wiring to light point / fan point / exhaust fan point / call bell point with 1.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked with 20 mm dia non-metalic PVC flexible conduit with 5 Amp, 250 V modular type switch ISI marked and ceiling rose ISI marked mounted on MS box having front modular cover of suitable size, MS modular box with 1.0 sq.mm FR PVC insulated single core multistrand copper conductor as earth wire including all accessories and connection as per direction of Engineer in Charge. ( Make of wire Finolex / L&T / Anchor / Havels / V Guard )

1.1.1		Group-A						
Code No	Sl.No.	Description of materials	Quantit	Unit	Rate in Rs.	Rate/ Unit	Quantity required	Amount in Rs
1	2	3	4	5	6	7	8	9
		Cost for 1 point	4.00	5	6.00	7.00	8	9.00
	A1	Materials						
1101	1	1.5 sq. mm FR PVC insulated single core multistrand copper conductor	90.00	Mtr	778.29	8.65	6.00	51.89
1101	2	1.5 sq. mm FR PVC insulated singlecore multistrand copper conductor as earthwire	90.00	Mtr	778.29	8.65	3.00	25.94
1224-A	3	20 mm dia flexible PVC conduit 1.6 mm thick	1.00	Kg	41.84	41.84	0.38	15.90
1401	4	CeilingRose 5 Amp, 250V ISI marked	1.00	No	12.40	12.40	1.00	12.40
1218	5	a. 20mm Iron Staple	1.00	No	0.78	0.78	6.00	4.68
1222A		b. Nail	100.00	No	78.13	0.78	12.00	9.38
1461	6	Washer/Screw	100.00	No	15.63	0.16	6.00	0.94
1301	7	Modular G.I. box for 2 mouldle 18 SWG	1.00	No	17.44	17.44	0.50	8.72
1449	8	Alalloycadmium plated iron screw 20 mm	100.00	No	39.06	0.39	6.00	2.34
1421	9	Modular base & cover for 2 module	1.00	no	89.15	89.15	0.50	44.58
1402	12	S.P. 5 / 6 amps, one way modular switch, ISI marked	1.00	No	68.99	68.99	1.00	68.99
1463	13	SandandCement(4:1ratio)	1.00	LS/Mtr	4.20	4.20	2.50	10.50
		<b>Total(A1)</b>						<b>256.25</b>
	A2	Cartage 1% of A1						2.56
		Wastage 1% of A1						2.56
		<b>Total(A2)</b>						<b>5.13</b>
	A3	Labour charges						
1001	1	Wireman, Grade-I	1.00	Day	612.00	612.00	0.10	61.20
1002	2	Mason, Grade-II	1.00	Day	562.00	562.00	0.15	84.30
1004	3	Helper	1.00	Day	462.00	462.00	0.15	69.30
		<b>Total(A3)</b>						<b>214.80</b>
		<b>(A1+A2+A3)</b>						<b>476.18</b>
	A4	Overhead charges 15% on (A1+A2+A3)						71.43
	A5	Total(A1+A2+A3+A4)						<b>547.60</b>
	A6	Labor cess @1% of A5						5.48
		<b>Total (A5+A6)</b>					<b>Rs</b>	<b>553.08</b>



## Wiring in PVC Conduit with Modular Type Switch

- 1.1 Recessed wiring to light point / fan point / exhaust fan point / call bell point with 1.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked with 20 mm dia non-metallic PVC flexible conduit with 5 Amp, 250 V modular type switch ISI marked and ceiling rose ISI marked mounted on MS box having front modular cover of suitable size, MS modular box with 1.0 sq.mm FR PVC insulated single core multistrand copper conductor as earth wire including all accessories and connection as per direction of Engineer in Charge. ( Make of wire Finolex / L & T / Anchor / Havels / V Guard )

1.1.2		Group-B						
Code No	Sl.No.	Description of materials	Quantit v 4.00	Unit	Rate in Rs.	Rate/ Unit	Quantity required	Amount in Rs
1	2	3		5	6.00	7.00	8	9.00
	A1	Cost for 1point Materials						
1101	1	1.5 sq. mm FR PVC insulated single core multistrand copper conductor	90.00	Mtr	778.29	8.65	8.00	69.18
1101	2	1.5 sq. mm FR PVC insulated single core multistrand copper conductor as earth wire	90.00	Mtr	778.29	8.65	4.00	34.59
1224-A	3	20 mm dia flexible PVC conduit 1.6 mm thick	1.00	Kg	41.84	41.84	0.53	22.18
1401	4	Ceiling Rose 5Amp,250V ISI marked	1.00	No	12.40	12.40	1.00	12.40
1218	5	a.20mm Iron Staple	1.00	No	0.78	0.78	8.00	6.24
1222A		b.Nail	100.00	No	78.13	0.78	16.00	12.50
1461	6	Washer/Screw	100.00	No	15.63	0.16	6.00	0.94
1301	7	Modular G.I. box for 2 moudle 18 SWG	1.00	No	17.44	17.44	0.50	8.72
1449	8	Alalloy cadmium platedironscrew20 mm	100.00	No	39.06	0.39	6.00	2.34
1421	9	Modular base & cover for 2 module ISI marked	1.00	no	89.15	89.15	0.50	44.58
1402	12	S.P. 5 / 6 amps, one way modular switch, ISI marked typeswitch	1.00	No	68.99	68.99	1.00	68.99
1463	13	SandandCement(4:1ratio)	1.00	LS/Mtr	4.20	4.20	3.50	14.70
	A2	Total(A1) Cartage 1% of A1 Wastage1%ofA1 Total(A2)						297.35 2.97 2.97
	A3	Labourcharges						5.95
1001	1	Wireman,Grade-I	1.00	Day	612.00	612.00	0.20	122.40
1002	2	Mason,Grade-II	1.00	Day	562.00	562.00	0.30	168.60
1004	3	Helper	1.00	Day	462.00	462.00	0.30	138.60
		Total(A3) (A1+A2+A3)						429.60
	A4	Overhead charges 15% on (A1+A2+A3)						732.90 109.94
	A5	Total(A1+A2+A3+A4)						842.84
	A6	Labor cess @1% of A5						8.43
		Total (A5+A6)						851.27



**Wiring in PVC Conduit with Modular Type Switch**

- 1.1 Recessed wiring to light point / fan point / exhaust fan point / call bell point with 1.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked with 20 mm dia non-metallic PVC flexible conduit with 5 Amp, 250 V modular type switch ISI marked and ceiling rose ISI marked mounted on MS box having front modular cover of suitable size, MS modular box with 1.0 sq.mm FR PVC insulated single core multistrand copper conductor as earth wire including all accessories and connection as per direction of Engineer in Charge. ( Make of wire Finolex / I.&T / Anchor / Havels / V Guard )

Group-C								
Code No	Sl.No.	Description of materials	Quantity	Unit	Rate in Rs.	Rate/ Unit	Quantity required	Amount in Rs
1	2	3	4.00	5	6.00	7.00	8	9.00
		Cost for 1 point						
	A1	Materials						
1101	1	1.5 sq. mm FR PVC insulated single core multistrand copper conductor	90.00	Mtr	778.29	8.65	10.00	86.48
1101	2	1.5 sq. mm FR PVC insulated single core multistrand copper conductor as earth wire	90.00	Mtr	778.29	8.65	5.00	43.24
1224-A	3	20 mm dia flexible PVC conduit 1.6 mm thick	1.00	Kg	41.84	41.84	0.68	28.45
1401	4	Ceiling Rose 5Amp, 250V ISI marked	1.00	No	12.40	12.40	1.00	12.40
1218	5	a. 20mm Iron Staple	1.00	No	0.78	0.78	10.00	7.80
1222A		b. Nail	100.00	No	78.13	0.78	20.00	15.63
1461	6	Washer/Screw	100.00	No	15.63	0.16	6.00	0.94
1301	7	Modular G.I. box for 2 module 18 SWG	1.00	No	17.44	17.44	0.50	8.72
1449	8	Al alloy cadmium plated iron screw 20mm	100.00	No	39.06	0.39	6.00	2.34
1421	9	Modular base & cover for 2 module ISI marked	1.00	no	89.15	89.15	0.50	44.58
1402	12	S.P. 5 / 6 amps, one way modular switch, ISI marked	1.00	No	68.99	68.99	1.00	68.99
1463	13	Sand and Cement (4:1 ratio)	1.00	LS/Mtr	4.20	4.20	4.50	18.90
		<b>Total (A1)</b>						<b>338.46</b>
	A2	Cartage 1% of A1						3.38
		Wastage 1% of A1						3.38
		<b>Total (A2)</b>						<b>6.77</b>
	A3	Labour charges						
1001	1	Wireman, Grade-I	1.00	Day	612.00	612.00	0.33	201.96
1002	2	Mason, Grade-II	1.00	Day	562.00	562.00	0.50	281.00
1004	3	Helper	1.00	Day	462.00	462.00	0.50	231.00
		<b>Total (A3)</b>						<b>713.96</b>
		<b>(A1+A2+A3)</b>						<b>1,059.19</b>
	A4	Overhead charges 15% on (A1+A2+A3)						158.88
	A5	Total (A1+A2+A3+A4)						1,218.07
	A6	Labor cess @ 1% of A5						12.18
		<b>Total (A5+A6)</b>						<b>1,230.25</b>



### Twin control point wiring in PVC Conduit with Modular Type Switch

Wiring for twin control light point with 1.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked in recess PVC conduit with 2 way Modular type switch, Modular plate, suitable GI Box and earthing point with 1.5 sq.mm FR PVC insulated single core multistrand

Code No	Sl.No.	Description of materials	Quantit	Unit	Rate in Rs.	Rate/ Unit	Quantity required	Amount in Rs
1	2	3	4	5	6.00	7.00	8	9.00
		Cost for 1 point						
1101	A1	Materials						
1101	1	1.5 sq. mm FR PVC insulated single core multistrand copper conductor	90	Mtr	778.29	8.65	10.00	86.48
1101	2	1.5 sq. mm FR PVC insulated single core multistrand copper conductor as earthwire	90	Mtr	778.29	8.65	5.00	43.24
1224-A	3	20 mm dia flexible PVC conduit 1.6 mm thick	1	Kg	41.84	41.84	1.25	52.30
1401	4	Ceiling rose, 3 plate, 5 amps ISI marked	1	No	12.40	12.40	1.00	12.40
1218	5	a. 20mm Iron Staple	1	No	0.78	0.78	15.00	11.70
1222A		b. Nail	100	No	78.13	0.78	30.00	23.44
1461	6	Washer/Screw	100	No	15.63	0.16	6.00	0.94
1301	7	Modular G.I. box for 2 module 18 SWG	1	No	89.15	89.15	0.50	44.58
1422	9	Modular base & cover for 2 module ISI Marked	1	no	17.44	17.44	0.50	8.72
1402	12	S.P. 5 / 6 amps, two way modular switch, ISI marked	1	No	80.62	80.62	1.00	80.62
1239	9	20mm PVC Junction Box OneWay	1	No	6.01	6.01	1.00	6.01
1449	11	Al alloy/cadmium plated iron screw	100	No	39.06	0.39	6.00	2.34
1463	11	Sand and Cement (4:1 ratio)	1	LS/Mtr	4.20	4.20	4.50	18.90
		<b>Total(A1)</b>						<b>391.66</b>
	A2	Cartage 1% of A1						3.92
		Wastage 1% of A1						3.92
		<b>Total(A2)</b>						<b>7.83</b>
	A3	<b>Labour charges</b>						
1001	1	Wireman, Grade-I	1	Day	448.00	448.00	0.10	44.80
1002	2	Mason, Grade-II	1	Day	388.00	388.00	0.15	58.20
1004	3	Helper	1	Day	298.00	298.00	0.15	44.70
		<b>Total(A3)</b>						<b>147.70</b>
		<b>(A1+A2+A3)</b>						<b>547.19</b>
	A4	Overhead charges 15% on (A1+A2+A3)						82.08
	A5	Total(A1+A2+A3+A4)						629.27
	A6	Labor cess @1% of A5						6.29
		<b>Total (A5+A6)</b>						<b>635.56</b>
							<b>Rs</b>	<b>635.56</b>









1.25

**S/F of MODULAR TYPE SWITCH / SOCKET ISI MARKED**

Supplying and fixing of following MODULAR type switch / socket on the existing switch box / cover including connections etc as required.

1.25.4

**3 pin 5 / 6 amp socket outlet**

Code No	Sl.No.	Description of materials	Quantit v 4	Unit	Rate in Rs.	Rate/ Unit	Quantity required	Amount in Rs
1	2	3	4	5	6	7	8	9.00
		Costfor1set Materials						
	A1							
1434	1	3 pin 5 / 6 amps, modular socket outlet, ISI marked	1	No	73.64	73.64	1	73.64
1449	2	Alalloy cadmiumplate diron screw 20mm	100	No	39.06	0.3906	2	0.78
		<b>Total(A1)</b>						
	A2	Cartage1%ofA						74.42
		<b>Total(A2)</b>						0.74
	A3	<b>Labourcharges</b>						<b>0.74</b>
1001	1	Wireman,Grade-I	1	Day	612.00	612	0.03	18.36
1004	2	Helper	1	Day	462.00	462	0.03	13.86
		<b>Total(A3)</b>						<b>32.22</b>
		<b>(A1+A2+A3)</b>						
	A4	Overhead charges 15% on						107.39
								16.11
		<b>(A1+A2+A3)</b>						
	A5	<b>Total(A1+A2+A3+A4)</b>						123.49

Supply and fixing of 5Amp plug with S/F of 5/6A switch + S/F of 3 pin 5/6 A  
**A5 =** 118.09 + 123.49 **241.58**  
**labour cess @ 1% of A5** 2.42  
**Total=** 244.00

**S/F power plug point<sup>4</sup> modular type accessories**

Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.

Code No	Sl.No.	Description of materials	Quantit	Unit	Rate in Rs.	Rate/ Unit	Quantity required	Amount in Rs
1	2	3	4	5	6.00	7.00	8	9.00
	A1	CostforoneNo Materials						
1301	1	Modular G.I. box for 4 moudle 18 SWG	1	No	22.87	22.87	1.00	22.87
1421	2	Modular base & cover for 4 module SheetISImarked	1	no	124.03	124.03	1.00	124.03
1406	5	6 pin 15 / 16 amps, modular socket outlet, ISI marked	1	No	149.61	149.61	1.00	149.61
1404	6	S.P. 15 / 16 amps, one way modular switch, ISI marked	1	No	108.53	108.53	1.00	108.53
1449	5	Alalloycadmiumplatedironscrew 20mm	100	No	39.06	0.39	4	1.56
1461	6	Washer/Screw	100	No	15.63	0.16	4	0.63
1411	7	Modular Blanking Plate	1	No	17.50	17.50	1	17.50
	8	Sand & cement	LS					10.00
		<b>Total(A1)</b>						<b>434.73</b>
	A2	Cartage1%ofA1						4.35
		Wastage1%ofA1						4.35
		<b>Total(A2)</b>						<b>8.69</b>
	A3	<b>Labourcharges</b>						
1001	1	Wireman,Grade-I	1	Day	612.00	612.00	0.1	61.20
1002	2	Mason,Grade-II	1	Day	562.00	562.00	0.04	22.48
1004	4	Helper	1	Day	462.00	462.00	0.14	64.68
		<b>Total(A3)</b>						<b>148.36</b>
		<b>(A1+A2+A3)</b>						<b>591.78</b>
	A4	Overhead charges 15% on						<b>88.77</b>
		(A1+A2+A3)						
	A5	Total(A1+A2+A3+A4)						680.55
	A6	Labor cess @1% of A5						6.81
		<b>Total (A5+A6)</b>						<b>687.36</b>
							<b>Rs</b>	<b>687.36</b>



S/F of plug point modular type accessories

Supply and fixing of 3 no. of 3pin 5/6 amp modular socket and S.P. 5/6 amp one way modular switch, 1 no. of 5 pin 15/16 socket out let and S.P. 15/16 A one way modular switch on Modular G.I. Box with Modular Base and cover.

Code No	Sl.No.	Description of materials	Quantit	Unit	Rate in Rs.	Rate/ Unit	Quantity required	Amount in Rs
1	2	3	4	5	6.00	7.00	8	9.00
	A1	CostforoneNo Materials						
1301	1	Modular G.I. box for 12 moudle 18 SWG	1	No	57.36	57.36	1.00	57.36
1421	2	Modular base & cover for 12 module	1	no	271.32	271.32	1.00	271.32
1405	3	3 pin 5 / 6 amps, modular socket outlet, ISI marked	1	No	73.64	73.64	3.00	220.92
1402	4	S.P. 5 / 6 amps, one way modular switch, ISI marked	1	No	68.99	68.99	3.00	206.97
1406	5	6 pin 15 / 16 amps, modular socket outlet, ISI marked	1	No	149.61	149.61	1.00	149.61
1404	6	S.P. 15 / 16 amps, one way modular switch, ISI marked	1	No	108.53	108.53	1.00	108.53
1449	7	Alalloycadmiumplatedironscrew 20mm	100	No	39.06	0.39	4	1.56
1461	8	Washer/Screw	100	No	15.63	0.16	4	0.63
	9	Sand & Cement	LS					20.00
	A2	Total(A1)						1,036.90
		Cartage1%ofA1						10.37
		Wastage1%ofA1						10.37
	A3	Total(A2)						20.74
		Labourcharges						
1001	1	Wireman,Grade-I	1	Day	612.00	612.00	0.25	153.00
1002	2	Mason,Grade-II	1	Day	562.00	562.00	0.08	44.96
1004	4	Helper	1	Day	462.00	462.00	0.3	138.60
		Total(A3)						336.56
		(A1+A2+A3)						1,394.20
	A4	Overhead charges 15% on						209.13
		(A1+A2+A3)						
		Total(A1+A2+A3+A4)						1,603.32
	A6	Labor cess @1% of A5						16.03
		Total (A5+A6)						Rs 1,619.35

1.8  
1.8.2

**Circuit / Sub Main wiring in PVC Conduit**  
(2 x 2.5 sq.mm + 1 x 1.5 sq.mm)

Recessed wiring to submain in 2 x 2.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked confirming to IS-694/1990 in 20 mm dia non-metallic heavy duty flexible conduit 1.6 mm thick along with 1 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor as earth wire as required. (Make of wire Finolex/L&T/Anchor/Havels/V Guard)

Code No	Sl.No.	Description of materials	Quantit <sup>v</sup>	Unit	Rate in Rs.	Rate/ Unit	Quantity required	Amount in Rs
1	2	3	4.00	5	6	7	8	9.00
		Cost for 50 mtrs						
	A1	Materials						
1102	1	2.5 sq. mm single core pvc insulated multistrand copper conductor cable	90.00	Mtr	1,303.10	14.48	101.00	1,462.37
1101	2	1.5 sq. mm single core pvc insulated multistrand copper conductor cable as earth wire	90.00	Mtr	778.29	8.65	50.50	436.71
1224A	3	20 mm dia superior quality heavy duty flexible PVC conduit 1.6 mm thick	1.00	Kg	41.84	41.84	6.75	282.42
1218	4	a. 20 mm iron staples	1.00	No	0.78	0.78	100.00	78.00
1222A		b. Nail/Screw	100.00	No	78.13	0.78	200.00	156.26
1463	5	Sand and Cement (4:1)	1.00	LS/Mtr	4.20	4.20	50.00	210.00
		<b>Total A1</b>						<b>2,625.75</b>
	A2	Cartage 1% of A1						26.26
		Wastage 1% of A1						26.26
		<b>Total A2</b>						<b>52.52</b>
	A3	Labour charges						
1001	1	Wireman, Grade-I	1.00	Day	612.00	612.00	2.50	1,530.00
1002	2	Mason, Grade-II	1.00	Day	562.00	562.00	1.67	938.54
1004	3	Helper	1.00	Day	462.00	462.00	5.00	2,310.00
		<b>Total (A3)</b>						<b>4,778.54</b>
		<b>Total (A1+A2+A3)</b>						<b>7,456.81</b>
	A4	Overhead charges 15% on (A1+A2+A3)						<b>1,118.52</b>
		<b>Grand Total (A1+A2+A3+A4)</b>						<b>8,575.33</b>
	A5	Rate per meter in Rs.						171.51
	A6	Labor cess @ 1% of A5						1.72
		<b>Total (A5+A6)</b>						<b>173.23</b>



1.8  
1.8.3

**Circuit / Sub Main wiring in PVC Conduit**  
**(2 x 4 sq.mm + 1 x 1.5 sq.mm)**

Recessed wiring to submain in 2 x 4 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked confirming to IS-694/1990 in 20 mm dia non-metallic heavy duty flexible conduit 1.6 mm thick along with 1 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor as earth wire as equired.(Make of wire Finolex/L&T/Anchor/Havels/V Guard)

Code No	Sl.No.	Description of materials	Quantit	Unit	Rate in Rs.	Rate/ Unit	Quantity required	Amount in Rs
1	2	3	4.00	5	6	7	8	9.00
	A1	Costfor50mtrs Materials						
1103	1	4 sq. mm single core pvc insulated multistrand copperconductor cable	90.00	Mtr	1,956.59	21.74	101.00	2,195.73
1101	2	1.5sq.mm.single core pvc insulated multistrand copper conductor cableas earthwire	90.00	Mtr	778.29	8.65	50.50	436.71
1224A	3	20mmdiasuperiorqualityheavyduty flexible PVC conduit 1.6mm thick	1.00	Kg	41.84	41.84	6.75	282.42
1218	4	a.20mmironstaples	1.00	No	0.78	0.78	100.00	78.00
		b.Nail/Screw	100.00	No	78.13	0.78	200.00	156.26
1463	5	SandandCement(4:1)	1.00	LS/Mtr	4.20	4.20	50.00	210.00
		<b>Total(A1)</b>						<b>3,359.12</b>
	A2	Cartage1%ofA1						33.59
		Wastage1%ofA1						33.59
		<b>Total(A2)</b>						<b>67.18</b>
	A3	Labourcharges						
1001	1	Wireman, Grade-I	1.00	Day	612.00	612.00	2.50	1,530.00
1002	2	Mason, Grade-II	1.00	Day	562.00	562.00	1.67	938.54
1004	3	Helper	1.00	Day	462.00	462.00	5.00	2,310.00
		<b>Total(A3)</b>						<b>4,778.54</b>
		<b>Total(A1+A2+A3)</b>						<b>8,204.84</b>
	A4	Overhead charges 15% on (A1+A2+A3)						<b>1,230.73</b>
		<b>GrandTotal(A1+A2+A3+A4)</b>						<b>9,435.56</b>
	A5	Rate pe rmete rin Rs.						188.71
	A6	Labor cess @1% of A5						1.89
		<b>Total (A5+A6)</b>						<b>190.60</b>

1.8  
1.8.4

**Circuit / Sub Main wiring in PVC Conduit  
(2 x 6 sq.mm + 1 x 2.5 sq.mm)**

Recessed wiring to submain in 2 x 6 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked confirming to IS-694/1990 in 25 mm dia non-metallic heavy duty flexible conduit 1.6 mm thick along with 1 x 2.5 sq.mm FR PVC insulated single core multistrand copper conductor as earth wire as required. (Make of wire Finolex/L&T/Anchor/Havels/V Guard)

Code No	Sl.No.	Description of materials	Quantit v	Unit	Rate in Rs.	Rate/ Unit	Quantity required	Amount in Rs
1	2	3	4.00	5	6	7	8	9.00
	A1	Cost for 50 mtrs Materials						
1104	1	6 sq.mm single core pvc insulated multistrand copper conductor cable	90.00	Mtr	2,796.12	31.07	101.00	3,137.87
1102	2	2.5 sq.mm single core pvc insulated multistrand copper conductor cable as earth wire	90.00	Mtr	1,303.10	14.48	50.50	731.18
1224A	3	25 mm dia superior quality heavy duty flexible PVC conduit 1.6 mm thick	1.00	Kg	41.84	41.84	8.00	334.72
1218	4	a. 25 mm iron staples	1.00	No	1.01	1.01	100.00	101.00
1222A		b. Nail/Screw	100.00	No	78.13	0.78	200.00	156.26
1463	5	Sand and Cement (4:1)	1.00	LS/Mtr	4.20	4.20	50.00	210.00
		<b>Total (A1)</b>						<b>4,671.03</b>
	A2	Cartage 1% of A1						46.71
		Wastage 1% of A1						46.71
		<b>Total (A2)</b>						<b>93.42</b>
	A3	Labour charges						
1001	1	Wireman, Grade-I	1.00	Day	612.00	612.00	2.50	1,530.00
1002	2	Mason, Grade-II	1.00	Day	562.00	562.00	1.67	938.54
1004	3	Helper	1.00	Day	462.00	462.00	5.00	2,310.00
		<b>Total (A3)</b>						<b>4,778.54</b>
		<b>Total (A1+A2+A3)</b>						<b>9,542.99</b>
	A4	Overhead charges 15% on (A1+A2+A3)						<b>1,431.45</b>
		<b>Grand Total (A1+A2+A3+A4)</b>						<b>10,974.44</b>
	A5	Rate per meter in Rs.						219.49
	A6	Labor cess @ 1% of A5						2.19
		<b>Total (A5+A6)</b>						<b>221.68</b>



1.8  
1.8.10

**Circuit / Sub Main wiring in PVC Conduit**  
**(4 x 6 sq.mm + 2 x 2.5 sq.mm)**

Recessed wiring to submain in 4 x 6 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked confirming to IS-694/1990 in 32 mm dia non-metallic heavy duty flexible conduit 1.6 mm thick along with 2 x 2.5 sq.mm FR PVC insulated single core multistrand copper conductor as earth wire as required. (Make of wire Finolux/L&T/Anchor/Havels/V Guard)

Code No	Sl.No.	Description of materials	Quantit v 4	Unit 5	Rate in Rs. 6	Rate/ Unit 7	Quantity required 8	Amount in Rs 9.00
	1	Cost for 50 mtrs Materials						
1104	A1 1	6 sq.mm single core pvc insulated multistrand copper conductor cable	90	Mtr	2,796.12	31.07	202.00	6,275.74
1102	2	2.5sq. mm. single core pvc insulated multistrand copper conductor cable as earth wire	90	Mtr	1,303.10	14.48	101.00	1,462.37
1226A	3	32mm dia superior quality heavy duty flexible PVC conduit 1.6mm thick	1	Kg	41.84	41.84	12.50	523.00
1220	4	a. 32mm iron staples	1	No	1.55	1.55	100.00	155.00
1222A		b. Nail/Screw	100	No	78.13	0.78	200.00	156.26
1463	5	Sand and Cement (4:1)	1	LS/Mtr	4.20	4.20	50.00	210.00
		<b>Total(A1)</b>						<b>8,782.36</b>
	A2	Cartage 1% of A1						87.82
		Wastage 1% of A1						87.82
		<b>Total(A2)</b>						<b>175.65</b>
	A3	Labour charges						
1001	1	Wireman, Grade-I	1	Day	612.00	612.00	2.50	1,530.00
1002	2	Mason, Grade-II	1	Day	562.00	562.00	1.67	938.54
1004	3	Helper	1	Day	462.00	462.00	5.00	2,310.00
		<b>Total(A3)</b>						<b>4,778.54</b>
		<b>Total(A1+A2+A3)</b>						<b>13,736.55</b>
	A4	Overhead charges 15% on (A1+A2+A3)						<b>2,060.48</b>
		(A4)						
		<b>Grand Total(A1+A2+A3+A4)</b>						<b>15,797.03</b>
		Rate per meter in Rs.						
A6		Labor cess @1% of A5						<b>315.94</b>
								3.16
		<b>Total (A5+A6)</b>						<b>319.10</b>

1.28

**S/F of Urea Ceiling Rose ISI marked.**

Supplying and fixing of 3 pin, 5 amp ceiling rose ISI marked on the existing junction box / wooden block including connection etc. as required.

Code No	Sl.No.	Description of materials	Quantit	Unit	Rate in Rs.	Rate/ Unit	Quantity required	Amount in Rs
1	2	3	4.00	5	6	7	8	9.00
		Cost for 1 set						
	A1	Materials						
1401	1	3 pin, 5 amp ceiling rose ISI marked	1.00	No	12.4	12.4	1	12.40
1449	2	Al.alloy / cadmium iron screws 25mm	100.00	No	39.06	0.3906	2	0.78
		<b>Total(A1)</b>						<b>13.18</b>
	A2	Cartage 1% of A						<b>0.13</b>
		<b>Total(A2)</b>						<b>0.13</b>
	A3	Labour charges						<b>0.13</b>
1001	1	Wireman, Grade-I	1.00	Day	612.00	612	0.03	18.36
1004	2	Helper	1.00	Day	462.00	462	0.03	13.86
		<b>Total(A3)</b>						<b>32.22</b>
		<b>(A1+A2+A3)</b>						<b>45.53</b>
	A4	Overhead charges 15% on (A1+A2+A3)						<b>6.83</b>
		<b>Total(A1+A2+A3+A4)</b>						<b>52.36</b>

1.29

**S/F of Angle Holder**

Supplying and fixing batten holder / BK angle holder ISI marked including connection etc. as required.

Code No	Sl.No.	Description of materials	Quantit	Unit	Rate in Rs.	Rate/ Unit	Quantity required	Amount in Rs
1	2	3	4.00	5	6	7	8	9.00
		Cost for 1 set						
	A1	Materials						
1442	1	Batten Holder / Angle Holder	1.00	No	10.85	10.85	1	10.85
1449	2	Al.alloy / cadmium iron screws 25mm	100.00	No	39.06	0.3906	2	0.78
		<b>Total(A1)</b>						<b>11.63</b>
	A2	Cartage 1% of A						<b>0.12</b>
		<b>Total(A2)</b>						<b>0.12</b>
	A3	Labour charges						<b>0.12</b>
1001	1	Wireman, Grade-I	1.00	Day	612.00	612	0.05	30.60
1004	2	Helper	1.00	Day	462.00	462	0.05	23.10
		<b>Total(A3)</b>						<b>53.70</b>
		<b>(A1+A2+A3)</b>						<b>65.45</b>
	A4	Overhead charges 15% on (A1+A2+A3)						<b>9.82</b>
		<b>Total(A1+A2+A3+A4)</b>						<b>75.26</b>
	A5	S/F of Bakelite angle holder / batten holder of ISI marked conforming to IS-1258/1987 in place of ceiling rose						<b>22.90</b>
	A6	Labor cess @ 1% of A5						<b>0.23</b>
		<b>Total (A5+A6)</b>						<b>23.13</b>



1.30

**S/F of Call Bell / Buzzer**

Supplying and fixing of Call Bell / Buzzer ISI marked suitable for DC /AC single phase 230 volts complete as required.

Code No	Sl.No.	Description of materials	Quantit v 4.00	Unit 5	Rate in Rs. 6	Rate/ Unit 7	Quantity required 8	Amount in Rs 9.00
	1	Costfor1set						
	A1	Materials						
1444	1	Call Bell / Buzzer DC /AC Single Phase	1.00	No	63.57	63.57	1	63.57
1449	2	Al.alloy / cadmium iron screws 25mm	100.00	No	39.06	0.3906	2	0.78
		<b>Total(A1)</b>						<b>64.35</b>
	A2	Cartage1%ofA						0.64
		<b>Total(A2)</b>						<b>0.64</b>
	A3	Labourcharges						
1001	1	Wireman,Grade-I	1.00	Day	612.00	612	0.05	30.60
1004	2	Helper	1.00	Day	462.00	462	0.05	23.10
		<b>Total(A3)</b>						<b>53.70</b>
		<b>(A1+A2+A3)</b>						
	A4	Overhead charges 15% on						<b>118.69</b>
		<b>(A1+A2+A3)</b>						<b>17.80</b>
	A5	Total(A1+A2+A3+A4)						136.50
	A6	Labor cess @1% of A5						1.36
		<b>Total (A5+A6)</b>						<b>137.86</b>

3.2

**G.I. Earth Pipe electrode with salt / charcoal**

Earthing with G.I earth pipe 3 meter long 40 mm dia ISI marked including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc with charcoal and salt as required

Code No	Sl.No.	Description of materials	Quantit v	Unit	Rate in Rs.	Rate/ Unit	Quantity required	Amount in Rs
1	2	3	4.00	5	6	7	8	9.00
		Cost for 1 set ,						
	A1	Materials						
1334	1	40mm G.I. pipe medium class	1.00	Mtr	129.71	129.71	3	389.13
1830	2	Funnel, G.I. nuts, through bolt, G.I washer	1.00	Set	54.85	54.85	1	54.85
1829	3	Locking arrangement with hinged cover plate	1.00	No	160.16	160.16	1	160.16
1809	4	40mm to 20G.I. reducer	1.00	No	10.85	10.85	1	10.85
1831	5	Drilling of 5 nos 12mm dia holes on G.I. Pipe	1.00	LS	96	96	1	96.00
1810	6	Charcoal	1.00	Kg	5.86	5.86	64	375.04
1812	7	Salt	1.00	Kg	5	5	5	25.00
1826	8	Excavation	1.00	Cum	52	52	2.5	130.00
1833	9	Brick work in cement mortar	1.00	LS	102	102	1	102.00
		<b>Total(A1)</b>						
	A2	Cartage 1% of A						1,343.03
		Wastage 1% of A						13.43
		<b>Total(A2)</b>						13.43
	A3	Labour charges						26.86
1001	1	Wireman, Grade-I	1.00	Day	612.00	612	0.5	306.00
1002	2	Mason, Grade-II	1.00	Day	562.00	562	0.5	281.00
1004	3	Helper	1.00	Day	462.00	462	1	462.00
		<b>Total(A3)</b>						1,049.00
		<b>(A1+A2+A3)</b>						2,418.89
	A4	Overhead charges 15% on						362.83
		<b>(A1+A2+A3)</b>						
	A5	Total(A1+A2+A3+A4)						2,781.72
	A6	Labor cess @1% of A5						27.82
		<b>Total (A5+A6)</b>						2,809.54



Supply and fixing of following way single pole and neutral, sheet steel, MCB distribution board consumer unit, 240 V on surface / recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, hinged front acrylic covr for the MCB knobs detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required ( But with out MCB / RCCB / Isolator)

2.3.7

**4 WAY, DOUBLE DOOR**

[illegible]

2.3

**S/F SP MCB DISTRIBUTION BOARD ISI MARKED**

Supply and fixing of following way single pole and neutral, sheet steel, MCB distribution board consumer unit, 240 V on surface / recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, hinged front acrylic covr for the MCB knobs detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required ( But with out MCB / RCCB / Isolator)

2.3.6

**8 WAY, DOUBLE DOOR**

Code No	Sl.No.	Description of materials	Quantit	Unit	Rate in Rs.	Rate/ Unit	Quantity required	Amount in Rs
1	2	3	4	5	6	7	8	9.00
	A1	Costfor1each Materials						
1740	1	12WAY,SPN,DoubleDoor,MCB DB	1	No	738.76	738.76	1	738.76
1823	2	6mm dia rag Bolts with Nuts	1	No	4.69	4.69	4	18.76
	3	Cement,Sandetc.@50%of(2)of A1						9.38
		Total(A1)						766.90
	A2	a.Cartage@1%ofA1						7.67
		Total(A2)						7.67
	A3	Labour Charges						7.67
1001	1	Wireman,Grade-I	1	Day	612.00	612.00	0.08	48.96
1002	2	Mason,Grade-II	1	Day	562.00	562.00	0.12	67.44
1004	3	Helper	1	Day	512.00	512.00	0.20	102.40
		Total(A3)						218.80
		Total(A1+A2+A3)						993.37
	A4	Overhead charges 15% on						149.01
		(A1+A2+A3)						
		GrandTotal(A1+A2+A3+A4)						1,142.37
	A6	Labor cess @1% of A5						11.42
		Total (A5+A6)						1,153.79



### 2.3.7

**S/F SP MCB DISTRIBUTION BOARD ISI MARKED**

Supply and fixing of following way single pole and neutral, sheet steel, MCB distribution board consumer unit, 240 V on surface / recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, hinged front acrylic covr for the MCB knobs detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required ( But with out MCB / RCCB / Isolator)

**12 WAY, DOUBLE DOOR**

[illegible]

2.6

**S/F "B" SERIES SP MCB / SPN MCB**

Supply and fixing of 5 amp to 32 amp rating 240 V "B" series miniature circuit breaker suitable for lighting and other loads of the following poles in the existing MCB DB ISI marked complete with connections testing and commissioning etc. as required.

2.6.1

2.6.1

		SINGLE POLE						
Code No	Sl.No.	Description of materials	Unit	Rate in Rs.	Rate/ Unit	Quantity required	Amount in Rs	
1	2	3	4	5	6	7	8	
		Cost for 1 each	4.00	5	6	7	9.00	
	A1	Materials						
1701	1	6amp to 32amp rating SPMCB "B" series to 10KA breaking capacity	1.00	No	80.62	80.62	1	
		Total(A1)					80.62	
	A2	a.Cartage@1%ofA1					0.81	
		Total(A2)					0.81	
	A3	Labour Charges						
1001	1	Wireman,Grade-I	1.00	Day	612.00	612	0.04	
1004	2	Helper	1.00	Day	462.00	462	0.04	
		Total(A3)					18.48	
		Total(A1+A2+A3)					42.96	
	A4	Overhead charges 15% on					124.39	
							18.66	
		(A1+A2+A3)						
	A5	GrandTotal(A1+A2+A3+A4)					143.04	
	A6	Labor cess @1% of A5					1.43	
		Total (A5+A6)					144.47	

2.8

**S/F DP MCB ISOLATOR**

Supply and fixing of following rating double pole 240 V isolator in the existing MCB DB ISI marked complete with connection testing and commissioning etc. as required.

2.8.2

**63 amp**

Code No	Sl.No.	Description of materials	Unit	Rate in Rs.	Rate/ Unit	Quantity required	Amount in Rs
1	2	3	4	5	6	7	8
		Cost for 1 each	4	5	6	7	9.00
	A1	Materials					
1713	1	63amp 2pole isolator	1	No	244.19	244.19	1
		Total(A1)					244.19
	A2	a.Cartage@1%ofA1					2.44
		Total(A2)					2.44
	A3	Labour Charges					
1001	1	Wireman,Grade-I	1	Day	612.00	612	0.04
1004	2	Helper	1	Day	462.00	462	0.04
		Total(A3)					18.48
		Total(A1+A2+A3)					42.96
	A4	Overhead charges 15% on					289.59
							43.44
		(A1+A2+A3)					
	A5	GrandTotal(A1+A2+A3+A4)					333.03
	A6	Labor cess @1% of A5					3.33
		Total (A5+A6)					336.36



2.15

**S/F OF MAIN SWITCHES ISI Marked**

Supply, Installation, Testing, and Commissioning of 63 Amp TPN Main switches of following capacity (IS 13940 Part 3/1993 ) on existing surface / wall mounting and complete with HRC Fuse links, interconnections, earthing, etc. as required as per direction of Engineer in Charge. Make SEIMENS/HPI/ANCHOR/I & T/HAVELI S/C & S/ RK

2.15.3

Code No	SL.No.	Description of materials	63 Amp TPN Unit Quantit	Rate in Rs.	Rate/ Unit	Quantity required	Amount in Rs
1	2	3	4	5	6	7	8
		Cost for leach					9.00
	A1	A1 Materials					
1601	1	32 Amp TPN switch, disconnecter fuse unit (panel mounted type) with HRC fuse.	1	No	620.16	620.16	1
1454	2	25mmx3mm bolt and nuts	1	No	2.34	2.34	4
1839	3	Rubber/PVC bushes	100	No	69.77	0.6977	4
1835	4	Earthing, thimble and solder	1	No	10	10	1
	A2	Total(A1)					10.00
		a. Cartage @ 1% of A1					642.31
		Total(A2)					6.42
	A3	Labour Charges					6.42
1001	1	Wireman, Grade-I	1	Day	612.00	612.00	0.13
1004	2	Helper	1	Day	462.00	462.00	0.17
		Total-A3					78.54
		Total(A1+A2+A3)					158.10
	A4	Overhead charges 15% on					806.83
		(A1+A2+A3)					121.03
		Total(A1+A2+A3+A4)					
	A6	Labor cess @ 1% of A5					927.86
		Total (A5+A6)					9.28
							937.14

1.33

**Installation, Testing and Commissioning Fluorescent / Compact fluorescent**

Installation, Testing and Commissioning of pre-wired fluorescent fitting / compact fluorescent fitting of all sizes complete with all accessories and tube etc. directly on ceiling wall, including connection with 1.5 sq.mm FR PVC insulated single core multistrand copper conductor and earthing as required.

Code No	Sl.No.	Description of materials	Unit	Rate in Rs.	Rate/ Unit	Quantity required	Amount in Rs
1	2	3	4	5	6	7	8
		Cost for one each	4.00	5	6	7	9.00
	A1	<b>Materials</b>					
1101	1	1.5sq.mm FRPVC insulated single core multistrand copper conductor	90.00	Mtr	778.29	8.64	2.59
1451	2	Ironscrews,35mmx6mm	100.00	No	31.25	0.3125	0.63
1461	3	Washer	100.00	No	15.63	0.1563	0.31
1839	4	Rubber/PVCbushes	100.00	No	69.77	0.6977	1.40
		<b>Total(A1)</b>				2	4.93
	A2	Cartage1%ofA					0.05
		Wastage1%ofA1					0.05
		<b>Total(A2)</b>					0.10
	A3	<b>Labourcharges</b>					
1001	1	Wireman,Grade-I	1.00	Day	612.00	612	76.50
1004	2	Helper	1.00	Day	462.00	462	57.75
		<b>Total(A3)</b>				0.125	134.25
		<b>(A1+A2+A3)</b>					139.27
	A4	Overhead charges 15% on (A1+A2+A3)					20.89
	A3	Labor cess @1%					160.16
		<b>Total(A1+A2+A3+A4)</b>					1.60
							161.76

**S/F of 1x18 Watt LED T-5 fitting(Make-Crompton/Philips/Havells/Bajaj)**

Code No	Sl.No.	Description of materials	Unit	Rate in Rs.	Rate/ Unit	Quantity required	Amount in Rs
1	2	3	4	5	6	7	8
	A1	<b>Materials</b>	4.00	5	6	7	9.00
		1x18W LED T-5 fitting	1.00	No	635.59	635.59	635.59
	A2	Installation, Testing and Commissioning Fluorescent / Compact fluorescent	1.00		139.27	139.27	139.27
		<b>Sub-Total</b>				1	774.86
	A3	Overhead charges 15% on (A1+A2+A3)					116.23
	A4	Labor cess @1%					891.09
		<b>Total(A1+A2+A3+A4)</b>					8.91
							900.00

**S/F of 60 W LED Street light fitting(Make-Crompton/Philips/Havells/Bajaj)**

Code No	Sl.No.	Description of materials	Unit	Rate in Rs.	Rate/ Unit	Quantity required	Amount in Rs
1	2	3	4	5	6	7	8
	A1	<b>Materials</b>	4.00	5	6	7	9.00
		60 W LED Street light	1.00	No	5932.20	5932.2	5,932.20
	A2	Installation, Testing and Commissioning Fluorescent / Compact fluorescent	1.00	no	139.27	139.27	139.27
		<b>Sub-Total</b>				1	6,071.47



A3	Overhead charges 15% on (A1+A2+A3)	910.72
A4	Labor cess @1%	6,982.19
	Total(A1+A2+A3+A4)	69.82
		<b>7,052.01</b>

**S/F of 18Watt LED Square surface mount fitting (Make-Havells/Philips/C&S/Crompton)**

Code No	Sl.No.	Description of materials	Quantit	Unit	Rate in Rs.	Rate/ Unit	Quantity required	Amount in Rs
1	2	3	4.00	5	6	7	8	9.00
	A1	Materials						
	1	18 Watt LED Square recess fitting	1.00	No	932.20	932.2	1	932.20
	A2	Installation, Testing and Commissioning Fluorescent / Compact fluorescent	1.00	no	139.27	139.27	1	139.27
		<b>Sub-Total</b>						1,071.47
	A3	Overhead charges 15% on (A1+A2+A3)						160.72
	A4	Labor cess @1%						1,232.19
		Total(A1+A2+A3+A4)						12.32
								<b>1,244.51</b>

**S/F of Bulk Head fitting CFL/LED type complete (Rajaj/Philips with lamp)**

Code No	Sl.No.	Description of materials	Quantit	Unit	Rate in Rs.	Rate/ Unit	Quantity required	Amount in Rs
1	2	3	4.00	5	6	7	8	9.00
	A1	Materials						
	1	Bulk head in die cast aluminium housing & frosted glass	1.00	No	402.54	402.54	1	402.54
	2	9Watt LED Bulb	1.00	No.	129.46	129.46429	1	129.46
	A2	Installation, Testing and Commissioning Fluorescent / Compact fluorescent	1.00	no	161.76	161.7605	1	161.76
		<b>Sub-Total</b>						693.76
	A3	Labor cess @1%						6.94
		Total(A1+A2+A3)						<b>700.70</b>

1.36

**Installation, Testing and Commissioning Ceiling Fan**

Installation, Testing and Commissioning of ceiling fan, including wiring the down rods of standard length (upto

Code No	Sl.No.	Description of materials	Quantit v 4	Unit 5	Rate in Rs. 6	Rate/ Unit 7	Quantity required 8	Amount in Rs 9.00
	A1	Costfor8fans Materials						
1101	1	1.5sq.mm FRPV Cinsulated single core multistrand copper conductor	90	No	778.29	8.64	8	69.12
		<b>Total(A1)</b>						69.12
	A2	Cartage1%ofA Wastage1%ofA1						0.69 0.69
		<b>Total(A2)</b>						1.38
	A3	<b>Labour charges</b>						
1001	1	Wireman,Grade-I	1	Day	612.00	612.00	1	612.00
1004	2	Helper	1	Day	462.00	462.00	1	462.00
		<b>Total(A3)</b>						1,074.00
		<b>(A1+A2+A3)</b>						1,144.50
	A4	Overhead charges 15% on						171.68
		<b>(A1+A2+A3)</b>						
		<b>Total(A1+A2+A3+A4)</b>						1,316.18
		<b>Rate per fan(labour only)</b>						164.52

**S/F of 48" Ceiling fan Alluminium Body, Copper winding, High speed ceiling fan (Make-**

Code No	Sl.No.	Description of materials	Quantit v 4.00	Unit 5	Rate in Rs. 6	Rate/ Unit 7	Quantity required 8	Amount in Rs 9.00
	A1	Materials						
1	1	48" Ceiling fan Alluminium Body, Co	1.00	No	2114.41	2114.4	1	2,114.40
	A2	Installation, Testing and Commissioning Ceiling Fan	1.00	no	143.06	143.06	1	143.06
		<b>Sub-Total</b>						2,257.46
	A4	Overhead charges 15%						338.62
								2,596.08
	A3	Labor cess @1%						25.96
		<b>Total(A1+A2+A3)</b>						Rs. 2,622.04

1.43

**FIXING EXHAUST FAN UPTO 450 MM SWEEP**

Installation, testing and commissioning of exhaust fan up to 450 mm sweep in the existing opening, including making the hole to suit the size of the above fan, making good the damage complete, connection, etc as required.

Code No	Sl.No.	Description of materials	Quantit v 4	Unit 5	Rate in Rs. 6	Rate/ Unit 7	Quantity required 8	Amount in Rs 9.00
	A1	Costfor1set Materials						
1823	1	6mmdiaragboldswithnuts	1	No	4.69	4.69	4	18.76
1108	2	16/0.20 mm twin core PVC sheathed, flat flexible copper cable	100	Mtr	310.85	3.1085	1	3.11
	3	Phil / Rawl plug, cement etc. @						9.38
		<b>Total(A1)</b>						31.25
	A2	Cartage 1% of A						0.31



		Wastage 1% of A						0.31
		<b>Total(A2)</b>						<b>0.62</b>
		<b>A3 Labour charges</b>						
1001	1	Wireman, Grade-I	1	Day	612.00	612	0.33	201.96
1002	2	Mason, Grade-II	1	Day	562.00	562	0.33	185.46
1004	3	Helper	1	Day	462.00	462	0.66	304.92
		<b>Total(A3)</b>						<b>692.34</b>
		<b>(A1+A2+A3)</b>						<b>724.21</b>
A4		Overhead charges 15% on						<b>108.63</b>
		<b>Total(A1+A2+A3+A4)</b>						<b>832.85</b>
								excluding cost of exhaust fan

**S/F of 9" metallic exhaust fan**

Code No	Sl.No.	Description of materials	Quantit	Unit	Rate in Rs.	Rate/ Unit	Quantity required	Amount in Rs
1	2	3	4	5	6	7	8	9.00
	A1	Materials						
	1	9" metallic exhaust fan	1.00	No	1254.24	1254.23	1	1,254.23
	A2	FIXING EXHAUST FAN UPTO 450 MM SWEEP	1.00	no	832.85	832.85	1	832.85
		<b>Sub-Total</b>						2,087.08
	A4	Overhead charges 15%						313.06
	A3	Labor cess @1%						2,400.14
		<b>Total(A1+A2+A3)</b>						24.00
								<b>Rs. 2,424.14</b>

**S/F of 15" heavy duty metallic exhaust fan**

Code No	Sl.No.	Description of materials	Quantit	Unit	Rate in Rs.	Rate/ Unit	Quantity required	Amount in Rs
1	2	3	4	5	6	7	8	9.00
	A1	Materials						
	1	15" heavy duty metallic exhaust fan	1.00	No	3516.95	3516.94	1	3,516.94
	A2	FIXING EXHAUST FAN UPTO 450 MM SWEEP	1.00	no	832.85	832.85	1	832.85
		<b>Sub-Total</b>						4,349.79
	A3	Labor cess @1%						43.50
		<b>Total(A1+A2+A3)</b>						4,393.29

1.25

**S/F of STEEPED TYPE MODULAR REGULATOR**

Supplying and fixing of Stepped type modular fan regulator on existing switch box / cover including connections etc as required.

Code No	Sl.No.	Description of materials	Quantit	Unit	Rate in Rs.	Rate/ Unit	Quantity required	Amount in Rs
1	2	3	4	5	6	7	8	9.00
		Cost for 1 set						
	A1	Materials						
1435	1	Stepped type modular fan regulator	1	No	217.05	217.05	1	217.05
1449	2	Al alloy cadmium plated iron screw 20mm	100	No	39.06	0.3906	2	0.78
		<b>Total(A1)</b>						<b>217.83</b>
	A2	Cartage 1% of A						<b>2.18</b>
		<b>Total(A2)</b>						<b>2.18</b>
	A3	Labour charges						
1001	1	Wireman, Grade-I	1	Day	612.00	612	0.04	24.48
1004	2	Helper	1	Day	462.00	462	0.04	18.48
		<b>Total(A3)</b>						<b>42.96</b>
		<b>(A1+A2+A3)</b>						<b>262.97</b>

A4	Overhead charges 15% on	39.45
	(A1+A2+A3)	
	Total(A1+A2+A3+A4)	302.41
A6	Labor cess @1% of A5	3.02
	Total (A5+A6)	Rs 305.43



1.25

**S/F of MODULAR TYPE BELL PUSH**

Supplying and fixing of following MODULAR type Bell push on the existing switch box / cover including connections etc as required.

Code No	Sl.No.	Description of materials	Quantit	Unit	Rate in Rs.	Rate/ Unit	Quantity required	Amount in Rs
1	2	3	4	5	6	7	8	9.00
		Cost for 1 set						
	A1	Materials						
1435	1	Modular bell push ISI marked	1	No	91.47	91.47	1	91.47
1449	2	A lalloy cadmium plated iron screw 20 mm	100	No	39.06	0.3906	2	0.78
		<b>Total(A1)</b>						<b>92.25</b>
	A2	Cartage 1% of A						0.92
		<b>Total(A2)</b>						<b>0.92</b>
	A3	Labour charges						<b>0.92</b>
1001	1	Wireman, Grade-I	1	Day	612.00	612	0.03	18.36
1004	2	Helper	1	Day	462.00	462	0.03	13.86
		<b>Total(A3)</b>						<b>32.22</b>
		<b>(A1+A2+A3)</b>						<b>125.39</b>
	A4	Overhead charges 15% on						<b>18.81</b>
		(A1+A2+A3)						
		Total(A1+A2+A3+A4)						144.20
	A6	Labor cess @1% of A5						1.44
		<b>Total (A5+A6)</b>						<b>Rs 145.64</b>

**Wiring in existing Conduit**

1.19 Supply and drawing of following sizes FR PVC insulated single core multistrand copper conductor in existing surface / recessed STEEL/PVC conduit as required.

1.19.1

Code No	Sl.No.	Description of materials	Quantit	Unit	Rate in Rs.	Rate/ Unit	Quantity required	Amount in Rs
1	2	3	4	5	6	7	8	9.00
		Cost for 50 meters						
	A1	Materials						
1101	1	1.5sq.mm FR PVC insulated single core multistrand copper conductor	90	No	778.29	8.64	50.5	436.32
		<b>Total(A1)</b>						<b>436.32</b>
	A2	Cartage 1% of A						4.36
		<b>Total(A2)</b>						<b>4.36</b>
	A3	Labour charges						<b>4.36</b>
1001	1	Wireman, Grade-I	1	Day	612.00	612	2	1,224.00
1004	2	Helper	1	Day	462.00	462	2	924.00
		<b>Total(A3)</b>						<b>2,148.00</b>
		<b>(A1+A2+A3)</b>						<b>2,588.68</b>
	A4	Overhead charges 15% on						<b>388.30</b>
		(A1+A2+A3)						
		Total(A1+A2+A3+A4)						2,976.99
	A5	Rate per meter						59.54
	A6	Labor cess @1% of A5						0.60
		<b>Total (A5+A6)</b>						<b>60.14</b>

5.5  
5.5.1

**LALYING OF CABLE ON SURFACE**  
**MV cable laying up to 25 sq.mm on surface**

Laying and fixing of one number of PVC insulated and PVC seathed / XLPE power cable of 1.1 KV grade of size not exceeding 25 sq.mm on surface as required.

10 sq mm 2 core PVC Armoured cables ISI marked

Code No	SI.No.	Description of materials	Quantity	Unit	Rate in Rs.	Rate/ Unit	Quantity required	Amount in Rs
1	2	3	4	5	6	7	8	9.00
		Costfor50Mtr						
	A1	Materials						
2315	1	G.I.Saddle	#	No	234.38	2.34	113	264.42
2304	2	Iron screw 45 mm x 6mm	#	No	39.06	0.39	226	88.14
2303	3	Woodenbits/batten	#	No	86.58	0.86	226	194.36
39	4	10 sq mm 4 core PVC Armoured cables ISI marked	1	rm	93.23	93.23	50	4,661.50
		Total(A1)						5,208.42
	A2	Cartage1%ofA						52.08
		Wastage1%ofA						52.08
		Phil/Rawlplug,cement,sandetc@						17.63
		20%of(2)ofA1						
		Total(A2)						121.80
	A3	Labourcharges						
1001	1	Wireman,Grade-I	1	Day	612.00	612.0	1	612.00
1002	2	Mason,Grade-II	1	Day	562.00	562.0	1	562.00
1004	2	Helper	1	Day	462.00	462.0	6	2,772.00
		Total(A3)						3,946.00
		(A1+A2+A3)						9,276.22
	A4	Overhead charges 15% on						1,391.43
		(A1+A2+A3)						
		Total(A1+A2+A3+A4)						10,667.65
		Rate per Meter						213.35
		Labour Cess	1%					2.13
						or say	Rs	215.48



## Wiring in PVC Conduit with Modular Type Switch

- 1.1 Supply fitting and fixing of 100KVA cubical pannel board with necessary ISI marked 3 Phase electrical fittings as require ( 100KVA K.t Kat, 200A Change over, 25/5 copper busbar, Volt meter, Ampere meter, 3 phase indicator, 100A 4 pole MCCB, 10KA 63A DP MCB) with 10.00 sq.mm FR PVC insulated single core multistrand copper conductor as earth wire including all accesories and connection as per direction of Engineer in Charge. ( Make of wire Finolex / L&T / Anchor / Havels / V Guard )

1.1.1		Group-A						
Code No	Sl.No.	Description of materials	Quantit	Unit	Rate in Rs.	Rate/ Unit	Quantity required	Amount in Rs
1	2	3	4.00	5	6.00	7.00	8	9.00
		Cost for 1 point						
	A1	Materials						
1101	1	cost of pannel board	1.00	no	45,000.00	45,000.00	1.00	45,000.00
1463	13	SandandCement(4:1ratio)	1.00	LS/Mtr	4.20	4.20	2.50	10.50
		<b>Total(A1)</b>						<b>45,010.50</b>
	A2	Cartage1%ofA1						450.11
		Wastage1%ofA1						450.11
		<b>Total(A2)</b>						<b>900.21</b>
	A3	Labourcharges						
1001	1	Wireman,Grade-I	1.00	Day	612.00	612.00	0.10	61.20
1002	2	Mason,Grade-II	1.00	Day	562.00	562.00	0.15	84.30
1004	3	Helper	1.00	Day	462.00	462.00	0.15	69.30
		<b>Total(A3)</b>						<b>214.80</b>
		<b>(A1+A2+A3)</b>						<b>46,125.51</b>
	A4	Overhead charges 15% on (A1+A2+A3)						<b>6,918.83</b>
	A5	Total(A1+A2+A3+A4)						<b>53,044.34</b>
	A6	Labor cess @1% of A5						<b>530.44</b>
		<b>Total (A5+A6)</b>						<b>Rs 53,574.78</b>

*BM*  
**Er. PREM PRAKASH SAHU C Eng(I)**  
 M. Tech. (Structural Engg.)  
 143, Nageswartangi, Bhubaneswar-2  
 Membership No.- AM1917156  
 The Institution of Engineers (I)

*Sehna*  
*25.25*  
**Asst. Executive Engineer**  
 R.W.S. & D. Rajnagar

a	- 8mm	Stirrup	@100mm c/c from top & bottom upto L/4 @150mm c/c at middle
b	- 10mm	Stirrup	@100mm c/c from top & bottom upto L/4 @150mm c/c at middle or, pedestal main bar /as per specified in drawing
c	- 12mm	Main Bar	
d	- 16mm	Main bar	
e	- 20mm	Main bar	

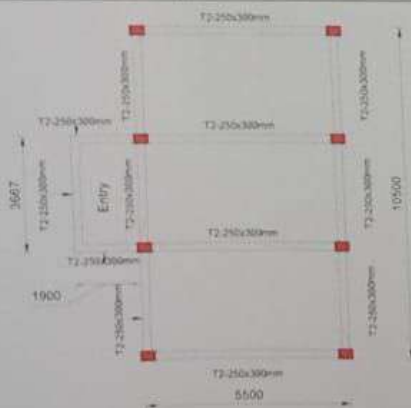
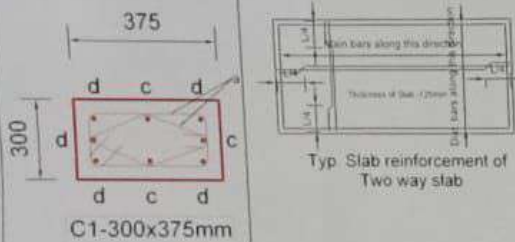
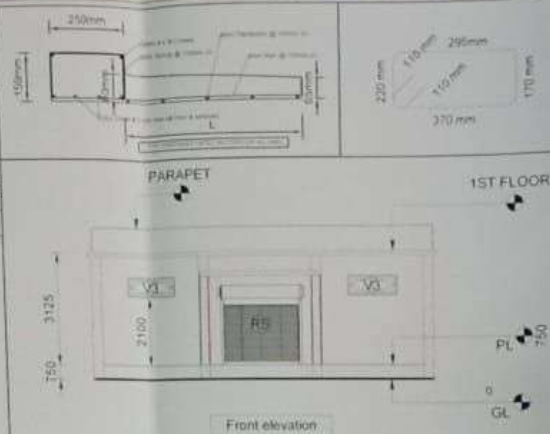
The Beam Layout Plan at GL +1.6 M<sup>±</sup> 0"


Fig-3

[illegible]

AGENCY NAME  
Forest Range Officer  
Rainier W.L. Natche - Rainier

SHEET TITLE : APPROVAL DRAWING

PROJECT NO.



Project Management Consultants  
& Consulting Engineer

**MADHUSMITA DESIGN & ENGINEERS STUDIO**  
# 7030, NEAR MADHUSMITA TEMPLE, 100' 0" X 100' 0" MMS  
BANGALURU, KARNATAKA, INDIA  
PH: +91-944-2434111, 9845000244  
www.madhusmita.com, madhusmita.com, madhusmita.com  
P: +91-8871460000, 022-471460000  
100' 0" X 100' 0" MMS, 100' 0" X 100' 0" MMS

**Author:**  
J. PREM PRASAD SAHAI, C. Eng., D.  
M. Tech., Newcastle, England  
Senior Project & Quality Mgr., PSC Div., Urban, Port, & Dev.  
Division, The Institution of Engineers, 44/49-1775/  
Senior Engr., Public Works, Madras, India, 600 017

<p><b>Product:</b></p> <p><b>Quantity:</b></p> <p><b>Unit Price:</b></p> <p><b>Total:</b></p>	<p><b>Product Name:</b></p> <p><b>Product Code:</b></p> <p><b>Product Description:</b></p> <p><b>Product Category:</b></p> <p><b>Product Status:</b></p>
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<p> <input type="checkbox"/> <b>ADDITIONAL</b> 10.00  <input type="checkbox"/> <b>100% Satisfaction</b> </p>	<p> <input type="checkbox"/> <b>FREE</b> 10.00  <input type="checkbox"/> <b>100% Satisfaction</b> </p>
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WISA STATEMENTS

Ground Floor area	57.76 Sqm.
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PROJECT TITLE	
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Construction of Malkhana at  
Sambhal under Baidagar W. I. Range.

Sansarpur, under Nayagarh W. C. Range,  
Dist. Kendrapada

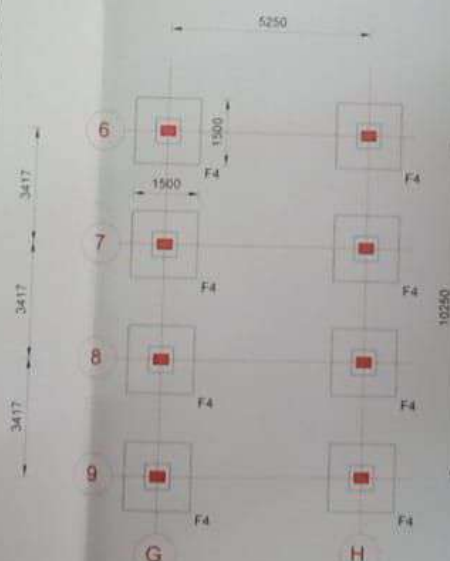
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2/10/20

John, Creative Director  
John, Project Manager





FOOTING Marked	FOOTING SIZE &		DEPTHS D	FOOTING REIN a & b
	L	B		
F4	1500	1500	300	#12 mm@150mm in long direction #12 mm@150mm in short direction

FOOTING Marked	FOOTING SIZE &		DEPTHS	SAND	CC M10
	L	B	D	DEPTH	DEPTH
F4	1650	1650	1500	150	150

AGENCY NAME \_\_\_\_\_  
 Present Name Officer \_\_\_\_\_  
 Registrar W L, Name Registrar \_\_\_\_\_

SHEET TITLE: APPROVAL DRAWING

PROJECT NO.		



Project Management Consultant  
& Consulting Engineer

**MADHUSMITA DESIGN & ENGINEERS STUDIO**  
 1/206, NEAR KACEZANG TOWER, 3RD FLOOR, KACEZANG  
 ROAD, TAILOR, BANGKOK THAILAND 10110  
 PH: 0979 043634 FAX: 098 110001 E-MAIL  
 4000 madhusmita12@gmail.com madhusmita\_designer@yahoo.com  
 14064202@gmail.com 02744 210001 madhusmita12  
 02744 21001 Fax 02744 21001 madhusmita12

1982 M. F. STANLEY, D. J. STANLEY  
 10 York Street, New York, N.Y. 10003  
 M. F. Stanley & D. J. Stanley, Inc.  
 10 York Street, New York, N.Y. 10003  
 M. F. Stanley & D. J. Stanley, Inc.  
 10 York Street, New York, N.Y. 10003

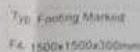
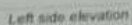
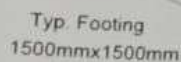
<p><b>E. WEST KANSAS STATE</b>          2700 S. 10th St.          Lawrence, KS 66044-0100          (785) 843-2100</p>	<p><b>E. WEST VIRGINIA STATE</b>          1000 University Ave.          Morgantown, WV 26506-3000          (304) 293-2100</p>
---	---

AREA STATEMENTS	
Ground Floor area	51.75 Sqm.

PROJECT TITLE \_\_\_\_\_

Construction of Malkhana at  
Sansariphal under Rajnagar W.L. Range,  
Dist- Kendrapada

2010/10/25



Formed Range (Offshore)  
Range (M); Range (Range)

[illegible]

Project Management Consultants

MACHUSMITA DESIGN & ENGINEERING STUDIOS

100-443887-100

Worldwide & South West U.S. Urban Tree & Canopy  
Studies: The National Program, 1990-1994  
National Urban Canopy Program 60-620

© 1997 Blackwell Science Ltd

Ground Floor area = 57.75 Sqm.

### Construction of Malkhana at Sansarpal under Rajnagar W L Range

1	10	10
---	----	----

Asst Executive Engineer			
2. Mr. S. R. Narayanan	REV. 02	0001/02	