




**OFFICE OF THE DIVISIONAL FOREST OFFICER,**  
BERHAMPUR DIVISION AT-COURTPETA, BRAHMAPUR-760004  
**Phone/Fax- 0680-2281354, Mob- +91 7653908594,**  
[Email-dfo.berhampur@odisha.gov.in](mailto:Email-dfo.berhampur@odisha.gov.in)

**Short Tender Call Notice No. 63 /2024/IF Dated 27<sup>nd</sup> February 2024.**

**TENDER FOR CONSTRUCTION OF ECO-RESORT AT GHODAHADA IN DIGAPAHNDI RANGE OF BERHAMPUR FOREST DIVISION**

The Divisional Forest Officer, Brahmapur Forest Division on behalf of Governor of Odisha invites percentage rate bid in OFF-LINE mode from eligible contractors with valid licenses for execution of Building & other work as detailed in DTCN			
1.	Nature of Works	:-	Construction of Eco- Resort at Ghodahada of Digapahandi Range of Brahmapur Forest Division
2.	No. of Work	:-	One Eco-Resort at Ghodahada, Digapahandi Range in Brahmapur Division.
3.	Tender Form Cost	:-	Rs.10,000/- only
4.	Estimate Cost		<b>Rs. 439.575</b> /- Lakh (Four Crore Thirty Nine Lakh Fifty Seven Thousand Five Hundred) Only (Including GST) .
5.	Class of Contractor	:-	“A” & “B” Class Contractor
6.	Availability of bid document in the Office of the Divisional Forest Officer, Brahmapur Division.	:-	<b>From Dt. 28.02.2024 10.00 A.M. to Dt. 06.03.2024. 5.00 P.M.</b>
7.	Last date and time of submission of bids in tender box of office		<b>06.03.2024. at 5.00 PM</b>
8.	Date of opening of Bid	:-	<b>Dt. 07.03.2024 at 11.00 AM</b>
9.	The bidders have to participate in OFF-LINE bidding only.		

  
Divisional Forest Officer  
Brahmapur Division




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**SHORT TENDER CALL NOTICE FOR CONSTRUCTION OF ECO- RESORT IN DIGAPAHANDI RANGE OF  
BERHAMPUR DIVISION DURING THE FINANCIAL YEAR 2023-24**

Sealed tenders are invited offline mode for the construction works as detailed in the table, from the class of eligible contractors as mentioned in column-8 registered with the State Governments having Civil license and Contractors of equivalent Grade / Class Registered with Central Government for execution of Civil Works. The proof of registration from the appropriate authority shall be enclosed along with the Bid. If successful, the bidder who has not registered under state government has to register under the appropriate registering authority of the State Government of Odisha in appropriate class of eligibility before award of the work. The Term and Conditions mentioned in the standard bidding documents so as to reach in the O/o The Divisional Forest Officer, Brahmapur on or before **06.03.2024 up to 05.00 P.M.** through Regd. Post/Speed Post/Courier Service and can be dropped in Tender Box placed in the Office of the Divisional Forest Officer, Brahmapur. The standard bidding documents with terms conditions to be downloaded from [www.odishaforest.in/tenders](http://www.odishaforest.in/tenders) & <http://ganjam.nic.in>.

The tender documents contains the Term & Conditions can be obtained in person from the Dealing Assistant, O/o The Divisional Forest Officer, Brahmapur Forest Division on any working days during office hour **(10.00 A.M. to 05.00 P.M.)** from **28.02.2024 to 06.03.2024** on production of the cost of tender paper of Rs **10,000/- (Rupees Ten Thousand)** only in shape of Demand Draft drawn in favour of the Divisional Forest Officer, Berhampur Forest Division on any Nationalized Bank at Berhampur, Ganjam, Odisha.

  
Divisional Forest Officer,  
Brahmapur Division.



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**Short Tender Call Notice No.63/1F-(ACCOUNTS)-51/24,**  
**Dated, Brahmapur the 27<sup>th</sup> February, 2024**

Divisional Forest Officer, Brahmapur Division invites offline in single cover from "A" & "B" class contractor registered with the State Governments and Contractor of equivalent Grade/Class registered with central Government/MES/Railways for execution of civil works on production of definite proof from the appropriate authority in prescribed form to be eventually drawn in Forest Department FORM-P-1 for the work "**Construction of Eco- Resort at Ghodahada in Digapahandi Range of Brahmapur Forest Division**"

**Document Download:**

The tender document having detailed instructions and terms & conditions are available on the website [www.odishaforest.in/tenders/https://ganjam.nic.in](http://www.odishaforest.in/tenders/https://ganjam.nic.in). Detailed sheet for the tender is as under:

**Memo No1702 dt.27.02.2024**

Copy along with its enclosure submitted to the Deputy Director, Information & Public Relation Department (Adv), & Deputy Secretary to Government of Odisha, Bhubaneswar for information and necessary action. He is requested to publish in at least two Odia / English Daily News Papers (All editions).

  
Divisional Forest Officer  
Brahmapur Division

**Memo No 1703 dt.27.02.2024**

Copy along with its enclosure submitted to the Principal Chief Conservator of Forests, (Wild Life) & Chief Wild Life Warden Odisha, Bhubaneswar for favour of kind information and necessary action.

  
Divisional Forest Officer  
Brahmapur Division

**Memo No 1704 dt.27.02.2024**

Copy along with its enclosure submitted to the Additional Principal Chief Conservator of Forests, (IT & GIS), Office of the Principal Chief Conservator of Forests, Odisha, Bhubaneswar for favour of kind information and necessary action. He is requested to upload the Short Tender Notice in the Website of PCCF, Odisha at an early date.

  
Divisional Forest Officer  
Brahmapur Division

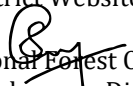
**Memo No 1705 dt.27.02.2024**

Copy along with its enclosure submitted to the Regional Chief Conservator of Forests, Brahmapur Circle, Brahmapur for favour of kind information and necessary action.

  
Divisional Forest Officer  
Brahmapur Division

**Memo No 1706 dt.27.02.2024**

Copy along with its enclosure forwarded to the District Information Officer, NIC, Collectorate, Ganjam Chatrapur for information and necessary action. He is requested to display the Short Tender Notice in the District Website.

  
Divisional Forest Officer  
Brahmapur Division

**Memo No 1707 dt.27.02.2024**

Copy along with its enclosure forwarded to the All Asst Conservator of Forests, I/c Berhampur Range, I/c Samantiapalli Range, I/c Khallikote Range and Forest Range Officers, Digapahandi Range for information and necessary action. They are instructed to display the Tender Notice on their respective Range Office Notice Board.

  
Divisional Forest Officer  
Brahmapur Division



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1. The **DIVISIONAL FOREST OFFICER, BERHAMPUR FOREST DIVISION** on behalf of Governor of Odisha invites in single cover system in **offline mode** for the construction works as detailed in the table, from the class of eligible contractors as mentioned in column-8 registered with the State Governments having Civil license and Contractors of equivalent Grade / Class Registered with Central Government for execution of Civil Works. The proof of registration from the appropriate authority shall be enclosed along with the Bid. If successful, the bidder who has not registered under state government has to register under the appropriate registering authority of the State Government of Odisha in appropriate class of eligibility before award of the work. The bidder may submit bids for the following works.
2. Bid documents consisting of plans, specifications, the schedule of quantities and the set of terms & Conditions of contract as follows:

Sl No	Name of the Work	Concerned T.I.A	Appropriate value of Amount (in Rs)	Cost of Bid papers (in Rs)	Cost of EMD (In Rs.)	Class of Bidders	Period of Completion
1	2	4	5	6	7	8	9
1	Construction of Eco- Resort at Ghodahada in Digapahandi Range of Brahmapur Forest Division.	Brahmapur Division	Rs 439.575 Lakh	10,000/-	14,00,000/-	"A" & "B" Class	3 Months

3. The Bid documents will be available in the website: [www.odishaforest.in/tenders/https://ganjam.nic.in](http://www.odishaforest.in/tenders/https://ganjam.nic.in).
4. Bids shall be received only "Offline" from **28.02.2024, 10 AM to 06.03.2024, 05.00 PM**.
5. The Original Documents only through Regd. /Speed post / by person should reach on or before **dated 06.03.24. up to 05:00PM** and other means of posting are not allowed.
- 6: Bids received offline shall be opened at **11:00 AM on dated. 07.03.2024** in the Office of the undersigned in presence of the Bidders who choose to attend. Bidders who participate in the Bid can witness the opening of Bids.
- 7: The successful bidder shall produce original Registration certificate, PAN, GST Registration Certificate on days of opening of tender before the undersigned for verification, otherwise his/her bid shall be liable for rejection.
- 8: The cost of Bid documents in shape of Demand draft only issued from any nationalized/scheduled Bank may be prepared in the name of the Divisional Forest Officer, Brahmapur Forest Division.

**9:** Additional Performance Security shall be obtained from the Bidder when the Bid amount is less than the estimated cost put to tender. In such an event only the successful bidder who has quoted less bid price rates than the estimated cost put to tender shall have to furnish the exact amount of differential cost i.e. estimated cost put to tender minus the quoted amount as Additional Performance Security (APS) in shape of Demand draft / Term Deposit received pledged in favour of the Divisional Forest Officer, Brahmapur Forest Division within seven days otherwise the Bid shall be cancelled and the security deposit shall be forfeited. Further proceeding for black listing shall be initiated against the Bidder.

**10:** If the rate quote by the Bidder is less than 15% of the tender amount. Then such a Bid shall be rejected and tender shall be finalized basing on merits of the rest Bids, but if more than 1 bid is quoted at 14.99% (Decimals up to 2 Nos. will be taken for all practical purposes) less than estimated cost, the tender accepting authority will finalize the tender through a transparent lottery system where all Bidders/ their authorized representatives, the concerned Divisional Forest Officer and committee will remain present.

**11:** Other details can be seen in the Bidding documents.

**12:** Any undertaking for any required documents will not be allowed, the tender will be rejected during evaluation.

**13:** The estimated cost is inclusive of GST 18%.

**14:** The cost of labour cess is @1% over and above the work value.

**15:** Valid and up to date required document should be enclosed falling which the concerned tender paper of the Bidder will be canceled without any further correspondence.

**16:** The Authority reserves the right to cancel any or all the Bids without assigning any reasons thereof.

  
Divisional Forest Officer,  
Brahmapur Division.

## **APPLICATION – TECHNICAL BID**

1. Name of Tendering Civil Work Contractor :  
with address (Block Letter)  
:
2. Name of the Proprietor/ Partner/ :  
Director
3. Full Address of Registered Office :  
Proof of Address to be furnished
4. Address for correspondence :  
(If other than in 3)
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 Contractor License :
9. Experience certificates :
10. Company Profile :
11. Income tax returns of the company/  
Firms for the last three years :  
(Copies)
12. Balance sheet last three years :  
(Copies)
13. Aadhar Card No. (Xerox copy) :

Certified that the information as above is true to be best 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 –

Place –

**SCHEDULE-A**

**CERTIFICATE OF NO RELATIONSHIP**

I/ We here by certify that I /We\* am /are \* **related** / **not related** (\*) to any officer of Forest Department and any officer of the rank of Assistant / Under Secretary and above of the Forest Department, Govt. of Odisha. I /We \* am / are\* aware that, if the facts subsequently proved to be false, my / our\* contract will be rescinded with forfeiture of security deposit and I/ We \* shall be liable to make good the loss or damage resulting from such cancellation.

I/ We also note that, non-submission of this certificate will render my/ our tender liable for rejection.

(\*)-Strike out which is not applicable

Signature of the Tenderer

Date:-

### **ITEM OF WORK**

- a. Concrete shall be with conformity to I.S.456.
- b. Foundation shall be with conformity to I.S.1080.
- c. Stone masonry (R.R.) shall be with conformity to I.S.1597(Part-I)
- d. C.R. Masonry shall be with conformity to I.S.1597.
- e. Brickmasonry shall be with conformity to I.S.2212.
- f. Cement plastering shall be with conformity to I.S.9103 & 6925.
- g. Mortar shall be with conformity to I.S.2250
- h. White and color washing shall be with conformity to I.S.6278.
- i. C C in foundation shall be with conformity to I.S.2571.
- j. Anti-Termite Treatment shall be with conformity to I.S.6813.(Part-I & Part-II)
- k. Painting to all surfaces shall be with conformity to I.S.2395(Part-I & Part- II)
- l. DPC shall be with conformity to I.S.3067
- m. Tarfelt treatment shall be with conformity to I.S.1346
- n. Tile flooring with conformity to I.S.2114
- o. Steel painting shall be with conformity to I.S.1477 (Part-I&Part-II)I.S.1661

**Note: The contractor shall ensure basic sanitary and electrical connections/ fittings within the cost of the contract. The make and model of the materials must be furnished in the schedule of quantities to be proposed.**



**SCHEDULE-F**

**AFFIDAVIT**

1. The undersigned do hereby certify that all the statements made in the required attachments are true and correct.
2. The undersigned also hereby certifies that neither **our firm M/s** \_\_\_\_\_ **nor any of its constituent partners/ I** have abandoned any road/ bridge/ Irrigation /Buildings or other project work in Indian or any contract awarded to us/ me for such works have been rescinded during the last five years prior to the date of this bid.
3. The undersigned hereby authorized and request (s) any bank, person, firm or Corporation of furnish pertinent information as deemed necessary and as requested by the Department to verify this statement or regarding my (our) competency and general reputation.
4. The undersigned understands and agrees that further qualifying information may be requested and agree to furnish any such information at the request of the Department.

(Signed by an Authorized Officer of the firm or  
Bidder)

Date:

  
Divisional Forest Officer,  
Berhampur Division.



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**Bid Identification No.63/IF Dated 27.02.24.**

Sealed **percentage rate** bids are invited on **OFFLINE in SINGLE COVER** from “**B**” & “**C**” **Class** contractor registered with the State Governments and contractors of equivalent Grade/class registered with Central Government/MES/Railways for execution of civil works on production of definite proof from the appropriate authority in prescribed form to be eventually drawn in Forest Department **FORM P-1** for the work “Construction of Buildings”.

1. Bid documents consisting of plans, specifications, set of terms & Conditions of contract and other necessary Documents can be seen in this tender document.
2. The Bid documents will be available in the website: [www.odishaforest.in](http://www.odishaforest.in)/tenders from **28.02.2024 to 06.03.2024 (5.00 PM)** for offline bidding.
3. Bids shall be received only on “Offline” on or before **05:00 PM dated 06.03.2024**.
4. The Original Bid Documents should only be received through Regd./Speed post/ Person before **06.03.2024** up to **05:00 PM** and other means of posting are not allowed.
5. Technical Bids received offline shall be opened at **11.00 AM** on **dated. 07.03.2024** in the Office of the undersigned in presence of the Bidders who choose to attend. Bidders who participate in the Bid can witness the opening of Bids.
6. The cost of Bid documents in shape of demand draft issued from any nationalized/scheduled bank may be prepared in the name of the **Divisional Forest Officer, Brahampur Division and payable at Brahampur**. The Bid cost shall be deposited in shape of Bank Draft prepared on or before the last date of receipt along with the Bid.
7. **The bid is to be submitted in two covers.**
  - (i) Cover- I List contains tender Cost, GST certificate, hard copy of registration certificate, PAN card, valid GST certificate, undertaking/certificates duly filled, affidavit, work experience certificate and documents required as per the relevant clauses of this DTCN.
  - (ii) Cover-II List contains the price bid duly filled in and signed by the bidder.
8. The intending bidders are required to produce documents viz. original Registration, valid GSTN Certificate, PAN card after opening of Technical Bid for verification purpose in the latter stage along with the original documents, preferably within five working days from the date of opening of the tender. Furnishing hard copy of such documents along with the Technical Bid is mandatory otherwise his/her bid shall be declared as non responsive and thus liable for rejection.

**ANNEXURE-B****FINANCIAL BID**

Sl No	Name of the Firm	Name of the Work	Estimated Cost	Less/More	Percentage
1					
2					
3					
4					

Signature of the Bidder

Date:

**SCHEDULE-A**

**CERTIFICATE OF NO RELATIONSHIP**

I/ We here by certify that I /We\* am /are \* **related** / **not related** (\*) to any officer of Forest Department and any officer of the rank of Assistant / Under Secretary and above of the Forest Department, Govt. of Odisha. I /We \* am / are\* aware that, if the facts subsequently proved to be false, my / our\* contract will be rescinded with forfeiture of security deposit and I/ We \* shall be liable to make good the loss or damage resulting from such cancellation.

I/ We also note that, non-submission of this certificate will render my/ our tender liable for rejection.

(\*)-Strike out which is not applicable

Signature of the Tenderer

Date:-

**[SCHEDULE-D1**

**WORKING EXPERIENCE**

**D-1. LIST OF SIMILAR NATURE OF PROJECTS EXECUTED (last three years)**

Name of the Employer	Name of the location & name of the work	Contract price in INR	Items of works	Date of starting work as per agreement	Stipulated date of commencement as per agreement	Actual Date of completion of work	Reasons for delay in starting/ completion, if any

**Signature**

**(SCHEDULE-D2)**

**WORKING EXPERIENCE**

**LIST OF SIMILAR NATURE OF PROJECTS IN PROGRESS**

Name of Employer	Name of location and name of the work	Contract price in Indian Rupees	Items of works	Date of starting the work as per Agreement	Stipulated date of completion of the work as per Agreement	Revised target date of completion	Reasons for slow progress, if any, with the updated billing amount

**Signature**

**SCHEDULE-“E”**

INFORMATION REGARDING CURRENT LITIGATION, DEBARRING EXPELLING  
TENDERED OR ABANDONMENT OF WORK BY THE TENDERER

- |    |    |  |        |
|----|----|--|--------|
| 1. | a) | Is the tenderer currently involved in litigation relating to the works   | Yes/No |
|    | b) | If yes: give details:  |        |
|    |    |  |        |
| 2. | a) | Has the tenderer or any of its constituent partners be end barred/ expelled by any agency in India during the last5 years.   | Yes/No |
|    |    |  |        |
| 3. | a) | Has the tenderer or any of its constituent partners failed to perform on any contract work in India during the last 5 years. | Yes/No |
|    | b) | If yes, give details:  |        |

Note-If any information in this schedule is found to be incorrect or concealed, qualification application will be summarily be rejected.

Signature

## TECHNICAL SPECIFICATION OF CIVIL PORTION OF WORK

Materials of following specification are to be used in work. The Tenderers are expected to possess and be well conversant with the following I S standard and code of practice.

1.	Cement	Will be as per I.S.269/255 (However the grade of cement to be selected by the Engineer -in-Charge of work and complex cube test before common cement of work in each batch).
2.	Steel	I.S.432 (Plain) and 1785 (Ton)
3.	Vibrator	I.S.7246
4.	Aggregate	I.S.383,I.S.515
5.	Water for mixing and curing	Shall be clean, free from injurious amount of oil, salt, acid, vegetable materials and other substances and harmful to concrete in conformity to I.S.456 and I.S.2025.
6.	Sand/Fine Aggregate	I.S.2116,383
7.	Binding wire	I.S.280 (galvanized minimum 1mm)
8.	Rain water pipe	I.S.2527
9.	Construction joints	I.S.3414
1	Steel Window Frame	I.S.1038/83
1	Steel Door Frame	I.S.4351/75
1 2.	Fitting & Fixtures for journey works	Conforming to I.S.7452/82 strictly conform to I.S. specification and as per direction of Engineer-in-Charge.

### **ITEM OF WORK**

- a. Concrete shall be with conformity to I.S.456.
- b. Foundation shall be with conformity to I.S.1080.
- c. Stone masonry (R.R.) shall be with conformity to I.S.1597(Part-I)
- d. C.R. Masonry shall be with conformity to I.S.1597.
- e. Brickmasonry shall be with conformity to I.S.2212.
- f. Cement plastering shall be with conformity to I.S.9103 & 6925.
- g. Mortar shall be with conformity to I.S.2250
- h. White and color washing shall be with conformity to I.S.6278.
- i. C C in foundation shall be with conformity to I.S.2571.
- j. Anti-Termite Treatment shall be with conformity to I.S.6813.(Part-I & Part-II)
- k. Painting to all surfaces shall be with conformity to I.S.2395(Part-I & Part- II)
- l. DPC shall be with conformity to I.S.3067
- m. Tarfelt treatment shall be with conformity to I.S.1346
- n. Tile flooring with conformity to I.S.2114
- o. Steel painting shall be with conformity to I.S.1477 (Part-I&Part-II)I.S.1661

**Note: The contractor shall ensure basic sanitary and electrical connections/ fittings within the cost of the contract. The make and model of the materials must be furnished in the schedule of quantities to be proposed.**



**SCHEDULE-F**

**AFFIDAVIT**

1. The undersigned do hereby certify that all the statements made in the required attachments are true and correct.
2. The undersigned also hereby certifies that neither **our firm M/s** \_\_\_\_\_ **nor any of its constituent partners/ I** have abandoned any road/ bridge/ Irrigation /Buildings or other project work in Indian or any contract awarded to us/ me for such works have been rescinded during the last five years prior to the date of this bid.
3. The undersigned hereby authorized and request (s) any bank, person, firm or Corporation of furnish pertinent information as deemed necessary and as requested by the Department to verify this statement or regarding my (our) competency and general reputation.
4. The undersigned understands and agrees that further qualifying information may be requested and agree to furnish any such information at the request of the Department.

(Signed by an Authorized Officer of the firm or  
Bidder)

Date:

  
Divisional Forest Officer,  
Berhampur Division.



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**Bid Identification No.63/IF Dated 27.02.24.**

Sealed **percentage rate** bids are invited on **OFFLINE in SINGLE COVER** from “B” & “C” **Class** contractor registered with the State Governments and contractors of equivalent Grade/class registered with Central Government/MES/Railways for execution of civil works on production of definite proof from the appropriate authority in prescribed form to be eventually drawn in Forest Department **FORM P-1** for the work “Construction of Buildings”.

1. Bid documents consisting of plans, specifications, set of terms & Conditions of contract and other necessary Documents can be seen in this tender document.
2. The Bid documents will be available in the website: [www.odishaforest.in](http://www.odishaforest.in)/tenders from **28.02.2024 to 06.03.2024 (5.00 PM)** for offline bidding.
3. Bids shall be received only on “Offline” on or before **05:00 PM dated 06.03.2024**.
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6. The cost of Bid documents in shape of demand draft issued from any nationalized/scheduled bank may be prepared in the name of the **Divisional Forest Officer, Brahampur Division and payable at Brahampur**. The Bid cost shall be deposited in shape of Bank Draft prepared on or before the last date of receipt along with the Bid.
7. **The bid is to be submitted in two covers.**
  - (i) Cover- I List contains tender Cost, GST certificate, hard copy of registration certificate, PAN card, valid GST certificate, undertaking/certificates duly filled, affidavit, work experience certificate and documents required as per the relevant clauses of this DTCN.
  - (ii) Cover-II List contains the price bid duly filled in and signed by the bidder.
8. The intending bidders are required to produce documents viz. original Registration, valid GSTN Certificate, PAN card after opening of Technical Bid for verification purpose in the latter stage along with the original documents, preferably within five working days from the date of opening of the tender. Furnishing hard copy of such documents along with the Technical Bid is mandatory otherwise his/her bid shall be declared as non responsive and thus liable for rejection.

9. The work is to be completed in all respects within the **time period** as specified in the **DTCN**. Bidders whose bid is accepted must submit a work programme at the time of execution of Agreement.
10. All **bids** received will remain **valid** for period as specified in the **DTCN** after the dead line date for submission of bids and validity of bids can also be extended if agreed to by the bidder and the Department.
11. The tenderer should furnish along with their tender a list of works executed during the **last three years** duly certified by the concerned Engineer-in-Charge indicating the satisfactory completion as per the Performa enclosed in a separate sheet of schedule-D1 and D2.
12. **No Relation certificate.**  
The contractor shall furnish a certificate along with the tender to the effect that he is not related to any officer in the state Forest Department or Assistant/Under Secretary & above in the Forest Department. If the fact subsequently proved to be false, the contract is liable to be rescinded. The Performa for no relationship certificate is contained in a separate sheet vide Schedule-A.
13. An applicant or any of its constituent partners of whose contract for any work has been rescinded or who has abandoned any work in the last five years, prior to the date of the bid, shall be debarred from qualification. The bidder is to furnish an **affidavit** at the time of submission of bid about the authentication of bid documents including Bank guarantee. An **affidavit** to this effect is to be furnished in **Schedule-F**. **Non furnishing** of the scanned copy of information in **Schedule-E** and required affidavit in **Schedule-F** will lead to rejection of the bid.
14. The tender should be strictly in accordance with the provision as mentioned in the tender schedule. Any change in the wordings will not be accepted.
15. No bidder will be permitted to furnish their bid in their own manuscript papers. All information should be typed in English.
16. Submission of more than one tender by a bidder for a particular work will liable for rejection.
17. Percentage rate contract (vide Works Department letter No. 8310 dt.17.05.2006) In case of Percentage Rate tender, :-
  - (i) The contractor has to quote percentage excess or less over the estimated cost in the Price Bid appended to the tender document.
  - (ii) The Contractor will quote percentage excess/less up to one decimal point only. If he writes the percentage excess/less up to two or more decimal points, the first decimal point shall only be considered without rounding off.
  - (iii) In the contract P-1 time is the essence. The contractor is required to maintain a certain rate of progress specified in the contract.
  - (iv) The quantity mentioned can be increased or reduced to the extent of 10% for individual items subject to a maximum of 5% over the estimate cost. If it exceeds the limit stated above prior approval of competent authority is mandatory before making any payment.
  - (v) The period of completion is fixed and cannot be altered except in case of exceptional circumstances with due approval of next higher authority.
  - (vi) Bills for percentage rate tenders shall be prepared at the estimated rates for individual items only and the percentage excess or less shall be added or subtracted from the gross amount of the bill.
18. The bidder shall carefully study the tentative drawings and specifications applicable to the contract and all the documents which will form a part of the agreement to be entered into by the accepted bidder and detailed specifications for Odisha and other relevant specifications and drawings. Complain at a future date that plans and specifications have not been seen by the bidders cannot be entertained.
19. The drawings if any furnished with the bid are tentative and subject to revision or modification as tendered during the execution as per actual necessity and detail test conducted. But the tendered rate quoted by the bidder

will hold good in case of such modification of drawings during the time of execution and shall in no way invalidate the contract and no extra monetary compensation will be entertained. The work shall how ever be executed as per final approved drawing to be issued by the Plan Layout elevation of estimate infrastructure should be as per approved plans & estimate of the Pr.C.C.F Office.

20. i) Every bidder is expected before quoting his rate to inspect the site of the proposed work. The bidder should also inspect the quarries and approach roads to quarries and satisfy himself/themselves about the quality and viability of materials. In every case the materials must comply with the relevant specifications. Complaints at future date that the availability of materials at quarries has been misjudged cannot be entertained.

**(ii) Amendment to Para 3.4.16 (a) (vii) of OPWD Code Vol.-I by substitution.**

For the purpose of estimate, the approved quarry lead is to be provided judiciously. Range Officer In-Charge would be responsible for ensuring the quality of the materials supplied. The contractors would, however, be responsible for procurement of materials from authorized sources and voluntarily disclose the source of procurement for the purpose of billing. Besides, the bidder would be required to submit the details of quarry for procurement while submitting the bids.

21. It must be definitely understood that the Government does not accept any responsibility for the correctness and completeness of the trial borings shown in the Cross Section.
22. In case of any discrepancy in printing or omissions of statutory specifications or any other part or portion of the approved document during download of the bid document, the decision of the officer inviting the bid will be binding on the bidder.
23. The tender containing extraneous conditions not covered by the tender notice are liable for rejection and quotations should be strictly in accordance with the tender call notice. Any change in the wording will not be accepted.
24. i) Schedule of quantities are to be proposed by the bidders as per standards defined in the tender document for the best of the best works as per plan given. The technical committee will examine the proposal and recommend for its acceptance by the competent authority. In no case sub standard materials will be proposed.
- ii) The quantity mentioned can be increased or decreased to the extent of 10% for individual items subject to a maximum of 5% over the estimated cost. If it exceeds the limit stated above prior approval of competent authority is mandatory before making any payment.

**The authority reserves the right to reject any or all the tenders received without assigning any reasons there-of whatsoever.**

25. **There is no earnest money (EMD) for this tender**
- (i) The bidder/tenderer whose bid has been accepted will be notified of the award by the Range Officer or DFO-in-charge prior to expiration of the valid period by cable, telex or facsimile or registered letter. This letter (herein after and in the conditions of Contract called the “Letter of Acceptance”) will state the sum that the Range Officer or DFO will pay the contract or in consideration of the execution, completion and maintenance of the Works by the contractor as prescribed by the contract (Herein after and in the contract called the “Contract Price”).
- (ii) The notification of award will constitute the formation of the contract, subject only to the furnishing of a performance security (Initial Security Deposit) and additional performance security as per Clause 27 of DTCN in form of Fixed deposit receipt to Schedule Bank/ Kissan Vikash Patra /Post Office Savings Bank Account /National Savings Certificate/ Postal Office Time Deposit Account/ Bank Guarantee in favour of the Divisional Officer from any Nationalized /Scheduled Bank in India counter guaranteed by its local branch at Brahmapur duly pledged in favour of the Divisional Forest Officer **and payable at Brahmapur.**
- (iii) The agreement will incorporate all correspondence between the officer inviting the bid and **the successful bidder. Within 15 days following the notification of award along with the Letter of**

- Acceptance, the successful bidder will sign the agreement** and deliver it to the Range Officer-in-charge. Following documents shall form part of the agreement.
- The notice inviting bid, all the documents including additional conditions, specifications and drawings, if any, forming the bid as issued at the time of invitation of bid and acceptance thereof together with any correspondence leading there to & required amount of performance security including additional performance security. **The normal performance security will be 3 % of the total contract price.**
  - Standard Forest Deptt. Form **P-1** with latest amendments.
- (iv) Failure to enter into the required agreement and to make the security deposit as above shall entail forfeiture of the **Bid Security (Earnest money)**. No **contract (tender)** shall be finally accepted until the required amount of initial security deposit and additional performance security deposit are received by the O/o the DFO, Berhampur. The security will be refunded after **One year** of completion of the work and payment of the final bill and will not carry any interest.
- (v) The security deposit of the successful tenderers will be forfeited in case, where bidders /tenderers back out from the offer after signing of agreement with the competent authority.
- (vi) **Amendment to Para 3.5.18 Note – viii of OPWD Code Vol.-I**  
Before acceptance of tender, the successful bidder will be required to submit a work programme and milestone basing on the financial achievement so as to complete the work within the stipulated time and incase of failure on the part of the agency to achieve the milestone liquidated damage will be imposed.
- (vii) **Amendment to Para3.5.14 Note–I of OPWD Code Vol.-I**  
If L-1 bidder does not turn up for agreement after finalization of the tender then he shall be debarred from participation in bidding for three years and action will be taken to black list the contractor. In that case, the L2 bidder, if fulfils, other required criteria would be called for drawing agreement for execution of work subject to the condition that L2 bidder negotiates at par with the rate quoted by the L1 bidder otherwise the tender will be cancelled in case a contractor is black listed. It will be widely published and intimated to all departments of Government and also to Govt. of India agencies working in the State.
26. The agreement will be drawn in Forest Deptt. P1contract form and the contract for the work shall be drawn and signed by Divisional Forest Officer, Berhampur Forest Division or his authorized officer.
27. The Civil items of works as per Schedule of quantities, shall be supervised, measured **and check measured by the** Divisional Forest Officer, Berhampur Forest Division **or his representatives authorized for the purpose.**
28. Any deviation in execution of the items of the agreement will mean deviation to the work as a whole. The financial implications shall be informed to the Chief Engineer (Buildings) Orissa / Pr.C.C.F, Odisha for proper action.
29. Similarly, extension of time if applied by the contractor will mean and amount to extension of time for the work will be dealt with by the DFO, Berhampur Division as per relevant clause of P1 agreement & DTCN Code.
30. Amendment to Para-3.5.5 (v) of OPWD Code Volume-I by inclusion. Additional Performance Security (as per Office Memorandum No.4559 dtd.05.04.2021 of Works Department, Government of Odisha) Additional Performance Security (APS) is being obtained from the Successful Bidder when the Bid amount is less than estimated cost put to tender to the extent as given in the table below, in shape of Term Deposit Receipt pledged in favour of Divisional Forest Officer, Berhampur/ Bank Guarantee in favour of the Divisional Forest Officer, Berhampur from any Nationalized /Scheduled Bank in India counter guaranteed by its local branch at Bhubaneswar within seven days of issue of Letter of Acceptance (LoA) by the Divisional Officer (by e-Mail) to the successful bidder otherwise the bid of the successful bidder shall be cancelled and the he will be debarred from tendering for a period of 180 days. Further, proceeding for Blacklisting shall be initiated against the bidder as per amendment to Para 3.5.5

(v) of OPWD Code Volume-I vide Works Department Office Memorandum No. 14459/W dated 20.09.2018. In view of the above, the State Government is pleased to fix the following rate of Additional Performance Security;

Sl No.	Range of Difference between the estimated cost put to tender and Bid amount	Additional Performance Security to be deposited by the successful bidder
i.	<b>Below 5%</b>	<b>No Additional Performance Security</b>
ii.	<b>From 5% and above and below 10%</b>	<b>50% of (Difference between estimated cost put to tender and Bid Amount)</b>
iii.	<b>From 10% and above</b>	<b>150% of (Difference between estimated cost put to tender and Bid Amount)</b>

31. The Civil contractor who has put the tender for the work in DTCN, will alone be responsible and answerable to the Forest Department Authority or any other competent authorities as regards to defects in the work, slow progress in the work or any other recessional parameters that may crop up during execution of the work as When any part of the work is considered by the departmental authority not to be in coherence with the agreement condition or their specifications as in the DTCN, then the contract for the total work in TCN will lead to its revision by the department if felt necessary.
32. That for the purpose of jurisdiction in the event of disputes if any of the contracts would be deemed to have been entered into within the State of Odisha and it is agreed that neither party to the contract will be competent to bring a suit in regard to them after by this contract at any place outside the State of Odisha.
33. The contractor should be liable to fully indemnify the department for payment of compensation under workman Compensation Act. VIII of 1923 on any account of the workmen employed by the contractor and full amount of compensation paid will be recovered from the contractor.
34. Bidders are required to abide by the fair wages clause as introduced by Govt. of Odisha, Works Department Letter No.-VIII-R8/5225 Dtd.26.02.55 and No.IIM-56/628842(5)Dtd. 27.09.61 as amended from time to time.
35. In case of any complaint by the labour on payment or less payment of wages as per latest minimum Wages Act, the Officer authorized by the DFO will have the right to investigate and if the contractor is found to be in default, he may recover such amount due from the contractor and pay such amount to the labour directly under intimation to the local labour office of the Govt. The contractor shall not employ child labour. The decision of the DFO is final and binding on the contractor.
36. The contractor shall bear cost of various incidentals, sundries and contingencies necessitated by working full within the following or similar category as per Govt. guidelines.
  - a. Rent, royalties and other charges of materials, octroi duty, all other taxes including sales tax, ferry, tolls conveyance charge and other cost on account to land and building including temporary building and temporary electric connection to work site as well as construction of service road and diversion road and its maintenance till completion of work as required by the bidders for Collection of materials, storage, housing of staff or other purpose of the work. No bidder will how ever be liable to pay Govt. for temporary occupation of land owned by Govt. at the site of the work.
  - b. Labour camps or huts necessary to a suitable scale including conservancy and sanitary arrangements there into the satisfaction of the local health authorities.
  - c. Suitable water supply including pipe water supply wherever available for the staff and labour as well as for the work.
  - d. Fees and duties levied by the municipal, canal or water supply authorities.
  - e. Suitable equipments and wearing apparatus for the labour engaged in risky operations.
  - f. Suitable fencing barriers, signals including paraffin and electric signal where necessary at work sand approaches in order to protect the public and employees from accidents.
  - g. Compensation including the cost of any suit for injury to persons or property due to neglect of any major precaution also become payable due to operation of the workmen compensation act.
  - h. The contractor has to arrange adequate lighting arrangement for the work wherever necessary at his own cost.
37. After the work is finalized, all surplus materials should be removed from the site of work. Preliminary work

such as vats, mixing platforms etc. should be dismantled and all materials removed from the site and premises left neat and clean, this should be inclusive of the rate.

38. No payment will be made for benchmarks, level pillars profiles and benching and leveling the ground where required. The percentage rate to be quoted should be inclusive of carriage of all materials and incidental item of works.
39. It should be understood clearly that no claim what-so-ever will be entertained to extra items of works, extra quantity of any item besides agreement quantity unless written order is obtained from the Engineer-in-charge and rate settled before the extra items of work or extra quantity of any items of work is taken up.
40. The bidder shall have to abide by the C.P.W.D. safety code rules introduced by the Government of India, Ministry of work Housing and Supply in their standing order No-44150 dtd. 25.11.57.
41. 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 all the offices issuing the documents during office hours every day except on Sundays and Public Holidays till last date of sale and receipt of bid documents. Interested bidders may obtain further information at the same address. But it must be clearly understood that the bids must be received in order and according to the instructions.
42. Bidders are required to go through each clause of Forest Deptt. Form **P-1** carefully in addition to the clause mentioned here in before tendering. In case of ambiguity, the clauses of Forest Deptt. Form **P-1** with latest amendments shall **supersede** the condition of **D.T.C.N.**
43. Steel shuttering & centering shall be used which shall be lined with suitable sheeting and made leak proof and water tight.
44. The Department will have the right to inspect the scaffolding, centering and shuttering made for the work and can reject partly or fully such structures if found defective in their opinion.
45. Concrete should be machine mixed unless otherwise ordered in writing by the Range Officer. The contractor should arrange his own concrete mixer, vibrator and pumps etc, for this purpose at his own cost.
46. Cement shall be used by bags and weight of one bag of cement being taken as fifty (50) Kg.
47. The bidder should arrange the materials like Steel, Cement, paint and bitumen etc. of approved quality and specification/grade at his own cost for completion of the work with the time schedule. No extension of time will be granted on the application of the bidder due to delay in procurement of materials. There should be no use of materials beyond specification. The same will be produced during signing of agreement and will be approved by the purchase committee of the office in which there may be a co-opted member from an engineering department.
48. The bidder will be responsible for the loss or damage of any departmental materials during transit and in the execution of the work due to reasons what-so-ever and the cost of such materials will be recovered from the bills at stock issue rates or market rates whichever is higher.
49. If the bidder removes Government materials supplied to him from the site of work with a view to dispose of the same dishonestly, he shall be in addition to any other liability civil or criminal arising out of his contract be liable to pay a penalty equivalent to five times of the price of the materials according to the stock issue rate or market rate whichever is higher. The penalty so imposed shall be recovered at any time from any sum that may then or at any time thereafter become due to the bidder or from his security deposit or from the proceeds of sale thereof.
50. The selected bidder may take delivery of departmental supply according to his need for the work issued by the office in-charge subject to the availability of the materials. The bidder shall make all arrangement for proper storages of materials but no cost for raising shed for storage, pay of watchman etc. will be borne by the Department. The Department is not responsible for considering the theft of materials at site. It is the contractor's risk. Under any such plea if the bidder stops the work, he shall have to pay the full penalty as per clause of **P-1** agreement.
51. The Department will have the right to supply at any time in the interest of work any departmental materials to be used in the work and the contractor shall use such materials without any controversy or dispute on that account. The rate of issue of such materials will be at the stock issue rates inclusive of storage charges or rates fixed by the Department or current market rate whichever is higher.

52. All the materials which are to be supplied from store will be as per availability of stock and the contractor will have to bear the charges of straightening, cutting, jointing, welding etc. to required sizes in case of M.S. Rods or steel /M.S Angles, Tees and Joists etc. All the materials required should be purchased from Govt. approved store and the purchased materials may be under custody of contractor and contractor will be responsible for its safety and storage.
53. The contractor must have to arrange by themselves cement, steel, bitumen and every sort of materials from approved manufacturer, get it tested in the Departmental Laboratory and approved by the Department before use.
54. Nothing will be supplied by the Forest Department from its store for the work.
55. The contractor should at his own cost arrange necessary tools and plants required for the efficient execution of work and the rates quoted should be inclusive of the running charges of each plant and cost of conveyance.
56. After completion of the work the contractor shall arrange at his own cost all requisite equipments for testing one unplugged well and specified span free of cost as directed by the Range Officer and bear the entire cost of the test.
57. No extra payment will be made for the site clearance for taking earth from the borrow areas. Earth work from cutting shall be economically utilized in filling.
58. Concrete of strength below of the required strength (as determined by actual tests) shall not be accepted.
59. After completion of the work, the contractor shall arrange at his own cost all requisite equipments for testing of electrical installations in the building, if felt necessary and the entire cost of such test, including the inspection by the Electrical Inspectorate group will be borne by the contractor.
60. The safety certificate of the EI work will be furnished by the agencies after getting necessary verification from the electrical inspector/equally competent authority responsible for the work prior to Energization of the building.
61. The depth of foundation indicated on the drawing are provisional but these may be altered if necessary in the light of the nature of strata encountered during soil test at field which must be taken in advance of actual execution of the foundation.
62. Wherever dewatering is imperatively necessary, the term dewatering shall mean the execution or operation of the items due to standing water as well as due to percolation of water. The contractor has to do dewatering by bailing out water from the foundation, pipeline trenches, septic tank/soak pits/sumps/manhole etc either rain water or sub soil water if necessary within his quoted percentage rate.
63. No claim for carriage of water what-so-ever will be entertained.
64. Odisha Construction Corporation Ltd. Will be allowed price preference up to 3% over the lowest quotation or tender as laid down in works and Transport Department Resolution No-285 date-17.04.1974. The Odisha Bridge and Construction Corporation will also be allowed a price preference to the extent of upto3%over the lowest tender amount (Where their tender is not the lowest) provided they express willingness to execute the work after reduction of rates by negotiation.
65. **Amendment of existing Clauses:-**By admission of a tender for the work, a tenderer will be deemed to have satisfied himself by actual inspection of the site and locality of the work, about the quality and availability of the required quantity of material including the wheat/rice referred to above, medical aid, labour and food stuff etc. and that rates quoted by him in the tender will be adequate to complete the work according to the specifications attached there to and that he had taken into account all conditions and difficulties that may be countered during its progress and to have quoted rates including labour and materials with taxes, octroi, other duties, lead, lifts, loading and unloading, freight or all materials and all other charges necessary for the completion of the work, to the entire satisfaction of the Engineer-in-Charge of the work and his authorized subordinates. After acceptance of the contract rate Government will not pay any extra charges for any reason incase the contractor claims later onto have misjudged as regard availability of materials, labour and other factors.
66. The prevailing percentage of I.T. Department of the gross amount of the bill towards income tax will be deducted from the contractor's bill.
67. Prevailing rate of GST on the gross amount of the bill will be deducted from the contractor's bill, The contractor is required to pay royalty to Govt. as fixed from time of time and produce such documents in support of their



payment to the concerned Executive Engineer with their bills, falling which the amount towards royalties of different materials as utilized by them in the work will be recovered from their bills and deposited in the revenue of concerned department.

68. CESS @1(one)% of the amount of the estimated cost as per Tender notification read with latest corrigendum if any will be proportionately deducted from the Contractor's bill at the time of making payment of each bill.
69. Under no circumstances interest is chargeable for the dues or additional dues if any payable for the work.
70. Under section 12 of contractors labour (Regulation and Abolition) Act.1970 the contractor who undertakes execution of work through labour should produce valid license from licensing authorities of labour Department.
71. **Sample of all material**—The contractor shall supply sample of all materials fully before procurement for the work for testing and acceptance as may be requiring by the concerned Executive Engineer.
72. Any defects, shrinkage or other faults which may be noticed within **12(twelve) months** from the completion of the work arising out of defective or improper materials or workmanship timing are up on the direction of the Engineer-in-Charge to be amended and made good by the contractor at his own cost unless the Engineer for reasons to be recorded in writing shall be decided that they ought to be paid for and in case of default Department may recover from the contractor the cost of making good the works. The defect liability period for the work is **12(twelve) calendar months** from the date of successful completion of the work.
73. From the commencement of the works to the completion of the same, they are to be under the contractors charge. The contractor is to be held responsible to make good all injuries, damages and repairs occasioned or rendered necessary to the same by fire or other causes and they hold the Govt. of Odisha harmless for any claims for injuries to person or structural damage to property happening from any neglect, default, want of proper care or misconduct on the part of the contract or any one in his employment during the execution of the work. Also no claim shall be entertained for loss due to earthquake, flood, cyclone, epidemic, riot or any other calamity whether natural or incidental damages so caused will have to be made good by the contractor at his own cost.

74. **ADDENDUM TO THE CONDITION OF P1 CONTRACT**

Clause-2(a) of P-1 Contract:-TIME CONTROL (Vide Works Department Office Memo random No.24716 dt.24.12.2005 and No.8310 dt.17.05.2006):-

2.1. **Progress of work and Re-scheduling programmed.**

- 2.1.1. The Divisional Forest Officer shall issue the letter of acceptance to the success falcon tractor. The issue of the letter of acceptance shall be treated as closure of the Bid process and commencement of the contract.
- 2.1.2. Within 15 days of issue of the letter of acceptance, the contractor shall submit other Engineer-in-Charge for approval Programmed commensurate to **Clause No.2 .1. 3 of P-1 Contract** showing the general methods, arrangements, and timing for all the activities in the Works along with monthly cash flow forecast.
- 2.1.3. To ensure good progress during the execution of the work the contract or shall be bound in all cases in which the time all owed for any work exceed son month to complete,  $1/4^{\text{th}}$  of the whole time allowed under the contract has elapsed,  $1/2$  of the whole of the work before  $1/2$  of the whole time allowed under the contract has elapsed,  $3/4^{\text{th}}$  of the whole of the work before  $3/4^{\text{th}}$  of the whole time all owed under the contract has elapsed. If at any time it should appear the Range Officer that the actual process of the work does not conform to the programme to which consent has been given the Contractor shall produce, at the request of the Range Officer a revised programme showing the modification slouch programme necessary to ensure completion of the works within the time for completion. If the contractor does not submit an updated Programme within this period, the Range Officer under intimation to DFO may with hold the amount of 1% of the contract value from the next payment certificate and continue to with hold this amount until the next payment after the date on which the overdue Programme has been submitted.
- 2.1.4. An update of the Programme shall be a programme showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining work including any Changes to the sequence of the activities.

## 2.2 Extension of the Completion Date.

2.2.1 The time allowed for execution of the works as specified in the Contract data shall be the essence of the Contract. The execution of the works shall commence from the 15<sup>th</sup> day or such time period as mentioned in letter of Award after the date on which the DFO issues written orders to commence the work or from the date of handing over of the site whichever is later. If the Contractor commits default in commencing the execution of the work as aforesaid, Government shall without prejudice to any other right or remedy available in law, bear liberty to forfeit the earnest money & performance guarantee / Security deposit absolutely.

2.2.2 As soon as possible after the Contract is concluded the Contractor shall submit the Time & Progress Chart for each milestone and get it approved by the Department. The Chart shall be prepared in direct relation to the time stated in the Contract documents for completion of items of the works. It shall indicate the forecast of the date of commencement and completion of various trades of section of the work and may be amended as necessary by agreement between the DFO and the Contractor within the limitations of time imposed in the contract documents, and further to ensure good progress during the execution of the work, the Contractor shall in all cases in which the time allowed for any work, exceeds one month (save for special jobs for which a separate programme has been agreed upon) complete the work as per milestone given in contract data.

2.2.3 In case of delay occurred due to any of the reasons mentioned below, the Contractor shall immediately give notice thereof in writing to the Engineer-in-Charge but shall nevertheless use constantly his best endeavors to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Engineer-in-Charge to proceed with the works.

- i) Force majeure, or
- ii) Abnormally bad weather, or
- iii) Serious loss or damage by fire, or
- iv) Civil commotion, local commotion of workmen, strike or lockout affecting any of the trades employee doing the work, or.
- v) Delay on the part of other contract or so trade's men engaged by Engineer-in-Charge in executing work not forming part of the Contract.
- vi) In case a Variation is issued which makes it impossible for Completion to be achieved by the Intended Completion Date without the Contractor taking steps to a credit rate the Remaining work and which would cause the Contractor to incur additional cost, or
- vii) Any other cause, which, in the absolute discretion of the authority mentioned, in Contract data is beyond the Contractor's control.

2.2.4 Request for reschedule and extension of time, to be eligible for consideration, shall be made by the Contractor in writing within fourteen days of the happening of the event causing delay. The Contractor may also, if practicable, indicate in such a request the period for which extension is desired.

2.2.5 In any such case a fair and reasonable extension of time for completion of work may be given. Such extension shall be communicated to the Contractor by the Range Officer in writing, within 3 months of the date of receipt to such request. Non-application by the contractor for extension of time shall not be a bar for giving a fair and reasonable extension by the Range Officer and this shall be binding on the contractor.

## 2.3: Compensation for Delay.

2.2.6 If the contractor fails to maintain the required progress in terms of clause 2 of P-1 Contract or to complete the work and clear the site on or before the contract or extended date of completion, he shall, without prejudice to any other right or remedy available under the law to the Government on account of such breach, pay as agreed compensation the amount calculated at the rates stipulated below as the Superintending Engineer (whose decision in writing shall be final and binding) may decide on the amount of tendered value of the work for every completed day / month (as applicable) that the progress remains below that specified in Clause 2 of P-1 Contract or that the work remains incomplete.

This will also apply to items or group of items for which a separate period of completion has been specified. Compensation @ 1.5% per month for delay of work, delay to be completed on per day basis. Provided always that the total amount of compensation for delay to be paid under this condition shall not exceed 10% of the Tendered Value of work.

The amount of compensation may be adjusted or set-off against any sum payable to the Contract or under this or any other contract with the Government. In case, the contract or does not achieve a particular mile stone mentioned in contract data,( which is in this case the original work programmed furnished by the Contractor and approved by the Range Officer which formed a part of agreement)or the rescheduled mile stone (s) in terms of Clause 2. 5 of P-1 Contract, the amount shown against that milestone shall be with held, to be adjusted against the compensation levied at the final grant of extension of time. With holding of this amount on failure to achieve a mile stone, shall be automatic without any notice to the contractor. However, if the contractor catches up with the progress of work on the subsequent milestone(s) the withheld amount shall be released. In case the contract or fails to make up for the delay in subsequent mile stone(s), amount mentioned against each milestone missed subsequently also shall be with held. However no interest what so ever shall be pay able on such with held amount.

#### 2.4. Management Meetings.

2.4.1. Either the Engineer or the Contractor may require the other to attend a management meeting. The business of a management meeting shall be to review the plans for remaining work and to deal with matters raised in accordance with the early warning procedure.

2.4.2. The ACF, Brahampur shall record the business of management meetings and is to provide copies of his record to those attending the meeting and to the Employer. The responsibility of the parties for actions to be taken to be decided by the DFO either at the management meeting or after the management meeting and stated in writing to all who attended the meeting.

Clause-2 (b) of Percentage Rate P-1 Agreement:- Rescission of Contract (Amendment as per letter No. 10639 dt.27.05.2005 of Works Department, Odisha):-

To rescind the contract (of which rescission notice in writing to the contractor under the hand of the Executive Engineer shall be conclusive evidence), 20% of the value of left overwork will be realized from the contractor as penalty.

75. A Contract or may be blacklisted as per amendment made to Appendix XXXIV to OPWD Code Vol.-II on rules for black listing of Contractors vide letter no.3365 dt.01.03.2007of Works Department, Orissa.

As per said amendment a Contract or may be black listed

- (i) Misbehavior/ threatening of Departmental & supervisory officers during execution of work/tendering process.
- (ii) Involvement in any sort of tender fixing.
- (iii) Constant non- achievement of milestones on in sufficient and imaginary grounds and non-adherence to quality specifications despite being pointed out.
- (iv) Persistent and intentional violation of important conditions of contract.
- (v) Security consideration of the State i.e. any action that jeopardizes the security of the State. Submission of false /fabricated /forged documents for consideration of a tender.

76. EIGIBILITY CRITERIA:-To be eligible for qualification, applicants shall furnish the followings.

a. Hard Copy of valid Registration Certificate, Valid GST certificate, PAN card along with the tender Documents as per the DTCN.

b: Information in hard copy regarding current litigation, debarring /expelling of the applicant or abandonment of work by the applicant in schedule "E" and affidavit to that effect including authentication of tender documents and Bank guarantee in schedule "F".


**b. Submission of tender paper cost as per the DTCN.**

- (a) The total value of only civil engineering construction work performed in the last three financial year with certificate from the Chartered Accountant is to be furnished for the purpose of evaluation of Bid Capacity as per clause No. 12 of the DTCN.
- (b) The statement as per **Schedule-G** showing the value of existing commitments and ongoing works as well as the stipulated period of completion remaining for each of the works should be counter signed by the Engineer-in-Charge not below the rank of an Executive Engineer.
- (c) The agency who do not possess any civil engineering construction work in hand at the expected time of bidding need to upload the fact **in shape of an affidavit** for consideration of the Bid Capacity during Technical Evaluation.

**Non-furnishing of the above documents, the bid will be liable for summarily rejection.**

**(cii) Defect Liability:-**

The Engineer shall give notice to the contractor of any defects before the end of the defects liability period, which begins at completion of the work and continues for next **12months** .The defects liability period shall be extended for as long as defects remain to be corrected. Every time notice of defect is given, the contractor shall correct the notified defect within the length of time specified by the Engineer's notice. If the contractor has not corrected a defect within the time specified in the Engineer's notice. The Engineer will assess the cost of having the defects corrected and the contractor will pay the amount.

 Approved  
Divisional Forest Officer,  
Brahampur Forest Division.



SUMMARY ESTIMATE FOR ECO-RESORT AT GHODAHADA RESORT ,BERHAMPUR,ODISHA.			ECO-
SUMMARY			
Sl.No.	DESCRIPTION OF WORKS.		AMOUNT IN Rs.
	<b>SECTION - I</b>		
A	<b>CIVIL WORKS.</b>		
	(i)Main Entry Gate 1 , 2 and RAISED PLATFORM	Rs.	3269511.00
	(ii)Internal Road	Rs.	2874590.00
	(iii)Dining & Kitchen	Rs.	5633501.00
	(iv)Cottage	Rs.	17387482.00
	(v)Furniture for cottage and dining	Rs.	2000000.00
	(vi)Steel Seating Benach - 4 nos	Rs.	80000.00
	(vii)Water Fountain - 2 nos	Rs.	700000.00
	(viii)Landscaping	Rs.	2134368.00
			-----
B	<b>TOTAL SECTION-I : (i)</b>		34079452.00
C	<b>SECTION - II</b>		
	<b>Services</b>		
	(i).Internal and External P.H., Sanitary work ,(5% Civil Work Of Cottage)	Rs.	1151049.15
	(ii)Electrical work		
	Internal Electrical work(5% Of Civil Work)	Rs.	588880.10
D	<b>TOTAL SECTION-II : (i+ii)</b>	Rs.	<b>1739929.25</b>
E	<b>GROSS TOTAL -SECTION I &amp;II=</b>		<b>35819381.25</b>
F	Add 18 % GST for total project cost[E]	Rs.	<b>6447488.63</b>
			=====
G	<b>Total cost [E+F]=</b>	Rs.	<b>42266869.88</b>
H	Add 1% contingency[G ]	Rs.	422668.70
I	Add 1% Quality control[G ]	Rs.	422668.70
			=====
J	<b>Total cost [G+H+I]=</b>	Rs.	<b>43112207.27</b>
K	Add 2% PMC fee[E]	Rs.	716387.63
L	Add 18 % GST for PMC fee[K]	Rs.	128949.77
M	<b>Total cost [K+L]=</b>		845337.40
N	<b>Grand total [J+M]</b>	Rs.	<b>43957544.67</b>
	<b>Or say</b>	Rs.	<b>43957500</b>
<b>Rupees Four Crores Thirty Nine Lakhs Fifty Seven Thousand Five Hundred Only</b>			

**ABSTRACT ESTIMATE FOR CONSTRUCTION OF MAIN ENTRY AND GATE OF  
GHODAHADA ECO-RESORT ,BERHAMPUR,ODISHA.**

<b>I Main Entry Gate 1 &amp; 2 , RAISED PLATFORM</b>					
<b>Sl.no.</b>	<b>Description of Items</b>	<b>UNIT</b>	<b>QNTY</b>	<b>RATE</b>	<b>AMOUNT Rs.</b>
<b>1</b>	Earthwork in excavation in hard soil for site leveling, foundation, pits, trenches and other civil works upto and including 1.5metre lift and stacking the soil upto a lead of 100 metre and including dewatering, removing slush, shoring and strutting (as required), complete as per specification and as directed by the Engineer-In-Charge.				
<b>a.</b>	Hard soils.	Cum	354.917	206.80	73396.89
<b>2</b>	Filling at all depth with available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 15cm in depth: consolidating each deposited layer by ramming and watering complete (lead upto 100m) as directed by the Engineer-In-charge.				
		Cum	237.790	114.90	27322.07
<b>3</b>	Supplying and filling sand in foundation and over areas including watering, ramming, consolidating and dressing, labours, tools, taxes etc. all complete as per the specification and direction of Engineer-In-Charge.				
		Cum	32.237	710.30	22898.12
<b>4</b>	Providing and laying plain cement concrete 1:4:8 (1 cement : 4 sand : 8 stone agregate 40mm nominal size) as levelling course in floor and plinth including tempering, curring, shuttering etc. complete all depth and height.				
		Cum	39.851	5985.60	238529.15
<b>5</b>	Fly Ash. brick masonry of size 23 cm. x 11 cm. x 8 cm. having crushing strength not less than 75 kg. Per Sqr. Cm. in cement mortar of mix (1:6) with approved grade cement and screened & washed sand for mortar after immersing the bricks for 6 (Six) hours in water before use <b>in Superstructure</b> including splays cutting, circular moulding, corbelling, chamfering and similar such type of works, watering and curing etc. including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, scaffolding, sundries, T&P required for the works etc. complete in all respect as directed by the Engineer-in-charge				
	Ground floor	Cum	64.575	5766.00	372339.45
<b>6</b>	Providing, lifting, hoisting and laying Reinforced cement concrete of M-25 grade as per approved designs and drawings having a minimum compressive strength (in work test) 250 Kg. / Square cm. in 15 cm. cubes at 28 days after mixing and test conducted in accordance with I.S. 516 using 12 mm. to 20 mm. size black hard crushed broken granite stone chips and screened and washed sharp sand for mortar of approved quality from approved quarry, washed and cleaned ( 20mm. size chips not to exceeds 25 % ) to be mixed in concrete mixture with Portland slag cement (PSC) including hoisting, lowering, laying and compaction concrete by using vibrators, watering and curing for 28 days, centering and shuttering then after dismantling and removing debris from the work site and finishing the exposed surface smooth providing grooves or beads wherever necessary including cost, conveyance, loading, unloading, royalties and taxes of all materials and cost of all labours, sundries, T & P required of the work etc. complete in all respect as directed by the Engineer-in-Charge. But excluding cost and conveyance of M.S. rods or Tor steel and binding wires and labour charges for straightening, cutting, bending etc. of M.S. rods or tor steel tying the grills and placing in proper position.				
	<b>Ground floor</b>				
	a) Footing	Cum	6.152	7093.60	43636.28
	b) Column up to plinth	Cum	1.518	14826.30	22506.32
	c) Plinth Beam	Cum	0.000	7912.30	0.00
	d) Column above plinth	Cum	62.561	14826.30	927551.86
	e) Roof Beam	Cum	0.000	14826.30	0.00
	f)Slab	Cum	0.000	13462.10	0.00

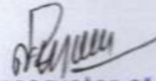
7	Cutting, straightening coiled or bent up M.S. Rod or tor steel of SAIL/ TATA / RINL (VIZAG) make including bending, binding, welding and joining if necessary and tying the grills and placing in position as required for R.C.C. Work and for providing fan hooks as required, hoisting, lowering, laying including cost, conveyances, taxes of M.S. Rod or tor steel and binding wires of 18 to 20 gauge and labour required for the work for bending, binding and tying the grills in all floors (Linear measurement will be taken and quantity will be calculated basing on the standard weight of B.I.S. for M.S. Rods or tor steel only. Wastage if any, including weight of binding wire will not be considered for measurement) etc. complete as per specification & direction of Engineer-in-charge.				
	Ground floor	Qntl	150.200	8950.20	1344320.04
8	12mm cement plaster to out side of brick surfaces with cement mortar of mix 1:6 (1 cement : 6 fine sand) including necessary scaffolding, curing etc. all complete at all floors and all heights.				
	Ground floor	Sqm	6.825	162.60	1109.75
9	6mm cement plaster to out side of brick surfaces with cement mortar of mix 1:4 (1 cement : 4 fine sand) including necessary scaffolding, curing etc. all complete at all floors and all heights.				
	Ground floor	Sqm	24.000	172.20	4132.80
10	Supplying and Fixing of <b>M.S. Grills, M.S.Doors, M.S. Gate</b> etc including cost,conveyance of all materials,priming,and labour for fitting fixing etc.complete as per the instruction of Engineer-in-Charge				
	Ground floor	Kg	1647.036	62.20	102445.64
11	Supplying, fitting & fixing of <b>30cm x 20cm Ceramic wall tiles(Cladding) of premium grade having thickness 6.5mm to 6.7mm confirming to IS 13753</b> in dadoes, skirting and risers of steps laid on 12 mm thick cement mortar (1:3) (1 cement : 3 course sand) jointed with slurry mixed with pigment to match the shades of the tiles etc. complete including cost of all materials, labour T&P etc. required for the work all complete as per direction of the Engineer-in-charge				
	Ground floor	Sqm	25.920	920.60	23861.95
12	Supplying, fitting & fixing THATCH ROOF				
		Sqm	58.200	920.60	53578.92
13	Priming one coat with wall cement primer (water bound) to make an even finished surface in all floors and heights to wall surface of approved make and shade including sand papering, applying putty wherever necessary & cost of scaffolding, staging charges with cost, conveyance, taxes of all materials, cost of all labour,labour cess T&P etc. complete as per the direction of the Engineer-in-charge.				
	Ground floor	Sqm	30.825	64.70	1994.38
14	Painting two coats with approved anti-fungal weather seal paints (ISI) of approved colour, shade on wall surface over a coat of wall primer(ISI) water bound including sand papering, polishing the surface, cost, conveyances of all materials and cost of all labour,labour cess with T&P etc, complete as per specification & direction of Engineer-in-charge.				
	Ground floor	Sqm	6.825	81.00	552.83



15	Painting two coats with approved Enamel Paint on Steel work over a coat of red oxide primer in Ground Floor				
	Ground floor	Sqm	50.292	185.60	9334.20
		Total			3269510.64
		Say Rs.			3269511.00



Technical Consultant  
B.E. in Civil Engg.  
District Project Co-ordinator  
Samagra Sikhya Ganjam,  
Sanakhemundi Block



Asst. Conservator of Forest  
Berhampur Division

COLLECTOR,  
GANJAM, CHATRAPUR

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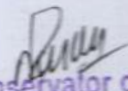
ESTIMATE FOR CONSTRUCTION OF MAIN ENTRY AND GATE OF GHODAHADA ECO-RESORT ,BERHAMPUR,ODISHA.							
Sl.no.	Description of Items	Nos	Length	Width	Height	Quantity	Units
1	Earthwork in excavation in hard soil for site leveling, foundation, pits, trenches and other civil works upto and including 1.5metre lift and stacking the soil upto a lead of 100 metre and including dewatering, removing slush, shoring and strutting (as required), complete as per specification and as directed by the Engineer-In-Charge.						
a.	Hard soils.						
	F1(1.5 X1.5)	2	1.500	1.500	1.650	7.425	
	F2(2.85 X 1.25)	2	2.850	1.250	1.650	11.756	
	F3(1.2 X 7.4)	1	1.200	7.400	1.200	10.656	
	Peripheral wall (conc pillar and pvc coated jalli)	1	558.000	0.600	0.600	200.880	
	Peripheral wall	1	10.000	0.900	0.600	5.400	
	PLATFORM	1	110.000	0.900	1.200	118.800	
					Total	354.917	Cum
2	Filling in foundation trenches and plinth, with excavated earth including laying the earth in layers not exceeding 23.5 cm thick ramming & watering with all leads & lifts including cost of all labour, T&P completed as directed by the Engineer-in-charge.						
	(2/3rd of Excavation)	1	354.917	area	0.670	237.795	
					Total	237.790	Cum
3	Supplying and filling sand in foundation and over areas including watering, ramming, consolidating and dressing, labours, tools, taxes etc. all complete as per the specification and direction of Engineer-In-Charge.						
	Footing						
	F1(1.5 X1.5)	2	1.500	1.500	1.650	7.425	
	F2(2.85 X 1.25)	2	2.850	1.250	1.650	11.756	
	F3(1.2 X 7.4)	1	1.200	7.400	1.200	10.656	
	Peripheral wall	1	25.000	0.600	0.100	1.500	
	Peripheral wall	1	10.000	0.900	0.100	0.900	
					Total	32.237	Cum
4	Providing and laying plain cement concrete 1:4:8 (1 cement : 4 sand : 8 stone aggregate 40mm nominal size) as levelling course in floor and plinth including tempering, curing, shuttering etc. complete all depth and height.						
	Footing						
	F1(1.5 X1.5)	2	1.500	1.500	0.100	0.450	
	F2(2.85 X 1.25)	2	2.850	1.250	0.100	0.713	
	F3(1.2 X 7.4)	1	1.200	7.400	0.100	0.888	
	Peripheral wall(250 conc. Pillars)	250	0.600	0.600	0.300	27.000	
	Peripheral wall	1	10.000	0.900	0.100	0.900	
	PLATFORM	1	110.000	0.900	0.100	9.900	
					Total	39.851	Cum
5	Fly Ash. brick masonry of size 25 cm. x 12 cm. x 8 cm. having crushing strength not less than 75 kg. Per Sqr. Cm. in cement mortar of mix (1:6) with approved grade cement and screened & washed sand for mortar after immersing the bricks for 6 (Six) hours in water before use in <b>Superstructure</b> including splays cutting, circular moulding, corbelling, chamfering and similar such type of works, watering and curing etc. including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, scaffolding, sundries, T&P required for the works etc. complete in all respect as directed by the Engineer-in-charge						
	GATE-2	2	5.000	0.250	2.250	5.625	
	GATE-1	4	1.200	0.250	2.250	2.700	
	PLATFORM	1	100.000	0.250	2.250	56.250	
					Total	64.575	Cum

6	Providing, lifting, hoisting and laying Reinforced cement concrete of M-25 grade as per approved designs and drawings having a minimum compressive strength (in work test) 250 Kg. / Square cm. in 15 cm. cubes at 28 days after mixing and test conducted in accordance with I.S. 516 using 12 mm. to 20 mm. size black hard crushed broken granite stone chips and screened and washed sharp sand for mortar of approved quality from approved quarry, washed and cleaned ( 20mm. size chips not to exceeds 25 % ) to be mixed in concrete mixture with Portland slag cement (PSC) including hoisting, lowering, laying and compaction concrete by using vibrators, watering and curing for 28 days, centering and shuttering then after dismantling and removing debris from the work site and finishing the exposed surface smooth providing grooves or beads wherever necessary including cost, conveyance, loading, unloading, royalties and taxes of all materials and cost of all labours, sundries, T & P required of the work etc. complete in all respect as directed by the Engineer-in-Charge. But excluding cost and conveyance of M.S. rods or Tor steel and binding wires and labour charges for straightening, cutting,							
	a) Footing :-							
	F1(1.5 X1.5)	2	1.500	1.500	0.300	1.350		
	F2(2.85 X 1.25)	2	2.850	1.250	0.300	2.138		
	F3(1.2 X 7.4)	1	1.200	7.400	0.300	2.664		
					Total	6.152	Cum	
	b) Column up to plinth :-							
	C1 (600 X 600)	2	0.600	0.600	1.150	0.828		
	C2(250 X 250)	4	0.250	0.250	1.150	0.288		
	C3(250 X 250)	2	0.250	0.250	1.150	0.144		
	C4(250 X 450)	2	0.250	0.450	1.150	0.259		
					Total	1.518	Cum	
	c)Plinth Beam;-							
	PB1(250X375)	0	1.000	0.250	0.375	0.000		
	PB2(600 X 400)	0	7.700	0.600	0.400	0.000		
	PB2(600 X 400)	0	6.500	0.450	0.400	0.000		
	PB3(450 X 400)	0	3.000	0.450	0.400	0.000		
	PB1(250X375)	0	1.000	0.250	0.375	0.000		
					Total	0.000	Cum	
	d) Column above plinth :-							
	C1 (600 X 600)	2	0.600	0.600	1.500	1.080		
	C2(250 X 250)	4	0.250	0.250	2.400	0.600		
	C3(250 X 250)	2	0.250	0.250	3.000	0.375		
	C4(250 X 450)	2	0.250	0.450	2.250	0.506		
	RAISED PLATFORM 100x.300	1	100.000	0.300	2.000	60.000		
					Total	62.561	Cum	
	e)Top coping Beam :-							
	X-axis :-							
		0	3.900	0.450	0.450	0.000		
		0	1.040	0.250	1.000	0.000		
		0	9.700	0.250	0.450	0.000		
		0	3.000	0.250	0.450	0.000		
					Total	0.000	Cum	
	f)Roof Slab							
	Main Entry 1	0	5.700	3.000	0.150	0.000		
	Main Entry 2	0	2.430	1.040	0.150	0.000		
					Total	0.000	Cum	

7	Cutting, straightening coiled or bent up M.S. Rod or tor steel of SAIL/ TATA / RINL (VIZAG) make including bending, binding, welding and joining if necessary and tying the grills and placing in position as required for R.C.C. Work and for providing fan hooks as required, hoisting, lowering, laying including cost, conveyances, taxes of M.S. Rod or tor steel and binding wires of 18 to 20 gauge and labour required for the work for bending, binding and tying the grills in all floors (Linear measurement will be taken and quantity will be calculated basing on the standard weight of B.I.S. for M.S. Rods or tor steel only. Wastage if any, including weight of binding wire will not be considered for measurement) etc. complete as per specification & direction of Engineer-in-charge.							
	a) Footing	1	6.152	Kg/Cum	150.000	922.73		
	b) Column up to plinth :-	1	1.518	Kg/Cum	220.000	333.96		
	c) Plinth Beam	1	0.000	Kg/Cum	150.000	0.00		
	d) Column above plinth :-	1	62.561	Kg/Cum	220.000	13763.48		
	e) Beam	1	0.000	Kg/Cum	220.000	0.00		
	f) Slab	1	0.000	Kg/Cum	75.000	0.00		
			70.231		Total	15020.16	Kg	
					Total	150.20	Qtl	
8	12mm cement plaster to out side of brick surfaces with cement mortar of mix 1:6 (1 cement : 6 fine sand) including necessary scaffolding, curing etc. all complete at all floors and all heights.							
	External wall	2	0.600	0.600	1.500	1.800		
		4	0.250	0.250	2.400	2.400		
		2	0.250	0.250	3.000	1.500		
		2	0.250	0.450	2.250	1.125		
					Total	6.825	Sqm	
9	6mm cement plaster to out side of brick surfaces with cement mortar of mix 1:4 (1 cement : 4 fine sand) including necessary scaffolding, curing etc. all complete at all floors and all heights.							
	Main Entry 2 BOUNDARY PLASTER	1	10.000	2.400		24.000		
					Total	24.000	Cum	
10	Supplying and Fixing of <b>M.S. Grills, M.S.Doors, M.S. Gate</b> etc including cost,conveyance of all materials,priming,and labour for fitting fixing etc.complete as per the instruction of Engineer-in-Charge							
	main gate 1- roof frame	2	9.700	0.200	0.200	0.776		
	roof frame	3	3.000	0.200	0.200	0.360		
	pillar	8	6.500	0.200	3.500	36.400		
	main gate 2-roof frame	1	3.000	0.250	1.000	0.750		
	pvc wire mesh	1	715.000	1.000	2.250	1608.750		
					Total	1647.036	kg	
11	Supplying, fitting & fixing of <b>30cm x 20cm Ceramic wall tiles(Cladding) of premium grade having thickness 6.5mm to 6.7mm confirming to IS 13753</b> in dadoes, skirting and risers of steps laid on 12 mm thick cement mortar (1:3) (1 cement : 3 course sand) jointed with slurry mixed with pigment to match the shades of the tiles etc. complete including cost of all materials, labour T&P etc. required for the work all complete as per direction of the Engineer-in-charge							
	Column	4	0.600	0.600	1.500	14.400		
		2	0.600	0.600	2.400	11.520		
					Total	25.920	Sqm	

12	Priming one coat with wall cement primer (water bound) to make an even finished surface in all floors and heights to wall surface of approved make and shade including sand papering, applying putty wherever necessary & cost of scaffolding, staging charges with cost, conveyance, taxes of all materials, cost of all labour,labour cess T&P etc. complete as per the direction of the Engineer-in-charge.						
	External Wall	1	6.825	area		6.825	
	Ceiling	1	24.000	area		24.000	
					Total	30.825	Sqm
13	Painting two coats with approved anti-fungal weather seal paints (ISI) of approved colour, shade on wall surface over a coat of wall primer(ISI) water bound including sand papering, polishing the surface, cost, conveyances of all materials and cost of all labour,labour cess with T&P etc, complete as per specification & direction of Engineer-in-charge.						
	External Wall	1	6.825	area		6.825	
					Total	6.825	Sqm
14	Supplying, fitting & fixing THATCH ROOF						
	Main Entry 1	2	9.700	3.000		58.200	
					Total	58.200	Cum
15	Painting two coats with approved Enamel Paint on Steel work in Ground Floor						
	main gate	2	9.700	1.100	1.800	38.412	
	main gate	2	3.000	1.100	1.800	11.880	
					Total	50.292	Sqm

  
 Technical Consultant  
 B.E. in Civil Engg.  
 District Project Co-ordinator  
 Samagra Sikhya Ganjam,  
 Senakhemundi Block

  
 Asst. Conservator of Forest  
 Berhampur Division

COLLECTOR,  
 GANJAM, CHATRAPUR.



**ABSTRACT OF ESTIMATE FOR CONSTRUCTION OF INTERNAL ROAD OF  
ECO-RESORT ,BERHAMPUR,ODISHA.**

GHODAHADA

INTERNAL ROAD					
Sl.No.	Description of Items	UNIT	QNTY	RATE	AMOUNT
1	Earthwork in excavation in hard soil for site leveling, foundation, pits, trenches and other civil works upto and including 1.5metre lift and stacking the soil upto a lead of 100 metre and including dewatering, removing slush, shoring and strutting (as required), complete as per specification and as directed by the Engineer-In-Charge.				
	Hard soils.	Cum	891.000	206.80	184258.80
2	Supplying of filling sand in foundation and over areas including watering, ramming, consolidating and dressing, labours, tools, taxes etc., all complete as per the specification and direction of Engineer-In-charge.				
		Cum	594.000	710.30	421918.20
3	Loosening levelling & compacting original ground supporting embankment to facilitate a placement of 1st layer of embankment up to a depth of 150mm mixed with water at OMC & then and then compacted by rolling as per Clause 300.20 for embankment construction as per Clause No- 305.3.4 of MoRTH specification.				
		Cum	445.500	35.57	15846.43
4	Providing close graded granular subbase with Grading-III materials				
		Cum	594.000	281.70	167329.80
5	Providing and laying 80 mm thick factory made cement concrete interlocking paver block of M-30 grade made by block making machine with stong vibratory compaction of approved size, design & shape, laid in required colour and pattern over and including 75mm thick sand filling.as per drawing, specification and direction of Engineer-In-charge.				
	GICO Tile (GPT-1, 4 & 6) Red and Yellow colour	Sqm	2970.000	702.10	2085237.00
<b>Total Rs.</b>					<b>2874590.23</b>
<b>Say</b>					<b>2874590.00</b>



Technical Consultant  
B.E. in Civil Engg.  
District Project Co-ordinator  
Samagra Sikhya Ganjam,  
Sanakhemundi Block



Asst. Conservator of Forest  
Berhampur Division



COLLECTOR,  
GANJAM, CHATRAPUR

**DETAIL ESTIMATE FOR CONSTRUCTION OF INTERNAL ROAD OF GHODAHADA  
ECO-RESORT ,BERHAMPUR,ODISHA.**

<b>II INTERNAL ROAD</b>							
<b>Sl.no.</b>	<b>Description of Items</b>	<b>Nos</b>	<b>Length</b>	<b>Width</b>	<b>Height</b>	<b>Quantity</b>	<b>Units</b>
1	Earthwork in excavation in hard soil for site leveling, foundation, pits, trenches and other civil works upto and including 1.5metre lift and stacking the soil upto a lead of 100 metre and including dewatering, removing slush, shoring and strutting (as required), complete as per specification and as directed by the Engineer-In-Charge. Hard soils.						
	Pavement 1	1	1790.000	area	0.300	537.000	
	Pavement 2	1	860.000	area	0.300	258.000	
	Pavement 3	1	320.000	area	0.300	96.000	
					Total	891.000	Cum
2	Supplying of filling sand in foundation and over areas including watering,ramming, consolidating and dressing, labours, tools, taxes etc., all complete as per the specification and direction of Engineer-In-charge.						
	Pavement 1	1	1790.000	area	0.200	358.000	
	Pavement 2	1	860.000	area	0.200	172.000	
	Pavement 3	1	320.000	area	0.200	64.000	
					Total	594.000	Cum
3	Loosening levelling & compacting original ground supporting embankment to facilitate a placement of 1st layer of embankment up to a depth of 150mm mixed with water at OMC & then and then compacted by rolling as per Clause 300.20 for embankment construction as per Clause No- 305.3.4 of MoRTH specification.						
	Pavement 1	1	1790.000	area	0.150	268.500	
	Pavement 2	1	860.000	area	0.150	129.000	
	Pavement 3	1	320.000	area	0.150	48.000	
					Total	445.500	Cum
4	Providing close graded granular subbase with Grading-III materials						
	Pavement 1	1	1790.000	area	0.200	358.000	
	Pavement 2	1	860.000	area	0.200	172.000	
	Pavement 3	1	320.000	area	0.200	64.000	
					Total	594.000	Cum

- 5 Providing and laying 80 mm thick factory made cement concrete interlocking paver block of M-30 grade made by block making machine with strong vibratory compaction of approved size, design & shape, laid in required colour and pattern over and including 75mm thick sand filling as per drawing, specification and direction of Engineer-In-charge.  
GICO Tile (GPT-1, 4 & 6) Red and Yellow colour

Pavement 1	1	1790.000	area	1790.000	
Pavement 2	1	860.000	area	860.000	
Pavement 3	1	320.000	area	320.000	
			Total	<u>2970.000</u>	Sqm



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<b>ABSTRACT OF ESTIMATE FOR CONSTRUCTION OF DINING &amp; KITCHEN OF GHODAHADA ECO-RESORT ,BERHAMPUR,ODISHA.</b>					
<b>III</b>	<b>Dining &amp; Kitchen</b>				
<b>Sl.no.</b>	<b>Description of Items</b>	<b>UNIT</b>	<b>QNTY</b>	<b>RATE</b>	<b>AMOUNT Rs.</b>
<b>1</b>	Earthwork in excavation in hard soil for site leveling, foundation, pits, trenches and other civil works upto and including 1.5metre lift and stacking the soil upto a lead of 100 metre and including dewatering, removing slush, shoring and strutting (as required), complete as per specification and as directed by the Engineer-In-Charge.				
<b>a.</b>	Hard soils.	Cum	22.500	206.80	4653.00
<b>2</b>	Filling at all depth with available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 15cm in depth: consolidating each deposited layer by ramming and watering complete (lead upto 100m) as directed by the Engineer-In-charge.				
		Cum	15.080	114.90	1732.69
<b>3</b>	Supplying and filling sand in foundation and over areas including watering, ramming, consolidating and dressing, labours, tools, taxes etc. all complete as per the specification and direction of Engineer-In-Charge.				
		Cum	566.850	710.30	402633.56
<b>4</b>	Diluting and injecting chemical emulsion (to be supplied free of cost at site of work) for PRE CONSTRUCTIONAL Anti-termite treatment and creating a continuous chemical barrier under and all-round the column pits, wall trenches, basement excavation, top perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surroundings of pipes and conduits etc. complete as per specifications (plinth area of the building at ground floor only shall be measured for payment).				
		Sqm	250.000	138.00	34500.00
<b>5</b>	Providing and laying plain cement concrete 1:4:8 (1 cement: 4 sand: 8 stone aggregate 40mm nominal size) as levelling course in foundation and plinth etc. including tempering, curring ,shuttering etc.complete all depth and height.				
		Cum	15.000	5985.60	89784.00
<b>6</b>	Providing and laying plain cement concrete 1:2:4 (1 cement: 2 sand: 4 stone aggregate 40mm nominal size) as levelling course in foundation and plinth etc. including tempering, curring ,shuttering etc.complete all depth and height.				
		Cum	25.000	7630.50	190762.50
<b>7</b>	First class Fly ash <b>Brick masonry</b> using bricks of size 25 cm. x 12 cm. x 8 cm. having crushing strength not less than 75 kg. Per. Sqr. Cm. in cement mortar of mix( 1:6) with ordinary Portland slag cement(PSC) and screened & washed sand for mortar after immersing the bricks for 6 (Six) hours in water before use in <b>Foundation &amp; Plinth</b> including splays cutting, circular moulding, corbelling, chamfering and similar such type of works, watering and curing etc. including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, scaffolding, sundries, T&P required for the works etc. complete in all respect as directed by the Engineer-in-Charge.				
	Sub structure	Cum	111.030	5727.70	635943.67


8	Fly Ash. brick masonry of size 25 cm. x 12 cm. x 8 cm. having crushing strength not less than 75 kg. Per Sqr. Cm. in cement mortar of mix (1:6) with approved grade cement and screened & washed sand for mortar after immersing the bricks for 6 (Six) hours in water before use <b>in Superstructure</b> including splays cutting, circular moulding, corbelling, chamfering and similar such type of works, watering and curing etc. including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, scaffolding, sundries, T&P required for the works etc. complete in all respect as directed by the Engineer-in-charge				
	Ground floor	Cum	104.936	5766.00	605062.42
9	Half brick work with Fly Ash brick masonry in cement mortar (1:4) in super structure having a crushing strength of not less than 75 kg./sqcm with dimensional tolerance $\pm 2\%$ including splays cutting circular moulding chamfering and corbelling and similar such type of works with all necessary projections watering and curing after immersing the bricks in water at least for six hours before use including cost, conveyance, royalties and taxes of all materials with all labour,labour cess and T & P required for the work complete in all respect as per direction of Engineer-in-Charge.				
	Ground floor	Sqm	10.500	740.36	7773.81
10	Providing, lifting, hoisting and laying Reinforced cement concrete of M-25 grade as per approved designs and drawings having a minimum compressive strength (in work test) 250 Kg. / Square cm. in 15 cm. cubes at 28 days after mixing and test conducted in accordance with I.S. 516 using 12 mm. to 20 mm. size black hard crushed broken granite stone chips and screened and washed sharp sand for mortar of approved quality from approved quarry, washed and cleaned ( 20mm. size chips not to exceeds 25 % ) to be mixed in concrete mixture with Portland slag cement (PSC) including hoisting, lowering, laying and compaction concrete by using vibrators, watering and curing for 28 days, centering and shuttering then after dismantling and removing debris from the				
	<b>Ground floor</b>				
	a) Footing	Cum	0.000	7093.60	0.00
	b) Column up to plinth	Cum	0.000	14826.30	0.00
	e) Plinth Beam	Cum	0.000	7912.30	0.00
	f) Column above plinth	Cum	0.000	14826.30	0.00
	g) Lintel	Cum	0.780	14117.20	11011.42
	i) Roof Beam	Cum	0.000	14826.30	0.00
11	Cutting, straightening coiled or bent up M.S. Rod or tor steel of SAIL/ TATA / RINL (VIZAG) make including bending, binding, welding and joining if necessary and tying the grills and placing in position as required for R.C.C. Work and for providing fan hooks as required, hoisting, lowering, laying including cost, conveyances, taxes of M.S. Rod or tor steel and binding wires of 18 to 20 gauge and labour required for the work for bending, binding and tying the grills in all floors (Linear measurement will be taken and quantity will be calculated basing on the standard weight of B.I.S. for M.S. Rods or tor steel only. Wastage if any, including weight of binding wire will not be considered for measurement) etc. complete as per specification & direction of Engineer-in-charge.				
	Ground floor	Qntl	1.170	8950.20	10471.73
12	12mm cement plaster to out side of brick surfaces with cement mortar of mix 1:6 (1 cement : 6 fine sand) including necessary scaffolding, curing etc. all complete at all floors and all heights.				
	Ground floor	Sqm	448.500	162.60	72926.10
13	16mm cement plaster to inside of brick surfaces with cement mortar of mix 1:6 (1 cement : 6 fine sand) including necessary scaffolding, curing etc. all complete at all floors and all heights.				
	Ground floor	Sqm	783.220	229.60	179827.31

14	Supplying, fitting & fixing of <b>10 mm thick &amp; size of 600x600 mm verified floor tile of matt finish with veilcraft (VC/FT ) shield( Scratch free/stain free) with water absorption limit between 0.08% to 3% and conforming to IS : 15622:2006 (Group B Ib)</b> . laid on 20 mm thick cement mortar (1:4) (1 cement : 4 course sand) 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 the Engineer-in-charge (for New Work only )				
	Ground floor	Sqm	687.809	1109.20	762917.74
15	Supplying, fitting & fixing of <b>10 mm thick and size of 600x600 mm verified wall tile</b> of in dadoes, skirting and risers of steps of laid on 12 mm thick cement mortar (1:3) (1 cement : 3 course sand) jointed with slurry mixed with pigment to match the shades of the tiles etc. complete including cost of all materials, labour T&P etc. required for the work all complete as per direction of the Engineer-in-charge.				
	Ground floor	Sqm	35.739	1206.20	43108.38
16	Supplying, fitting and fixing of Antiskid Ceramic Floor Tiles in flooring using special plain / printed series Ceramic Floor Tile of premium grade ( having minimum thickness 7 mm to 8 mm & size 300 mm x300 mm, confirming to I.S 13755 of approved quality and shade in floors, treads on steps and landings on 20 m.m thick bed of cement mortar of mix (1:4) laid in proper slope and gradient with screened & washed sharp river sand for mortar and fixing with neat white cement slurry,grouting the joints with neat white cement slurry mixed with required quantities of pigments (Tiles are to be immersed in the water for required time before use) of approved make to match the shades of the Ceramic Floor Tiles if required including cost, conveyance, loading, unloading, stacking, royalties , all taxes, cost of all Labour, Labour cess ,Sundries, T&P required for the work , Watering , Curing for required days , cleaning the flooring space manually etc. complete in all respect as directed by the Engineer-in-charge.				
	Ground floor	Sqm	69.496	875.70	60857.65
17	Supplying, fitting & fixing of <b>Ceramic wall tiles of premium grade of size(200x300 mm/200x200 mm) having thickness 6.5mm to 6.7mm confirming to IS 13753</b> in dadoes, skirting and risers of steps laid on 12 mm thick cement mortar (1:3) (1 cement : 3 course sand) jointed with slurry mixed with pigment to match the shades of the tiles etc. complete including cost of all materials, labour T&P etc. required for the work all complete as per direction of the Engineer-in-charge				
	Ground floor	Sqm	95.592	920.60	88002.00
18	Supplying, fitting & fixing of Granite Tiles of minimum Above 0.40 sqm. (20mm thick) of approved make in floors laid on 20 mm thick cement mortar (1:4) (1 cement : 4 course sand) and filling joints with slurry including cost of all materials, labour T&P etc. required for the work all complete incl. rubbing as per direction of the Engineer-in-charge.				
	Ground floor	Sqm	51.652	2777.00	143437.60
19	Supplying, fitting & fixing of Granite Tiles of minimum Above 0.10 Sqm & up to 0.4 sqm (10mm. thick) of approved make in dadoes laid on 12 mm thick cement mortar (1:3) (1 cement : 3 course sand) and filling joints with slurry including cost of all materials, labour T&P etc. required for the work all complete incl. rubbing as per direction of the Engineer-in-charge.				
	Ground floor	Sqm	14.549	1992.50	28987.89

<b>20</b>	Providing and fixing seasoned sal wood work in frames at any locations including doors, windows, cupboard, clerestory and other frames fixing in position including cost of hinges, M.S. flat (30mm x 6mm) hold fasts lugs or dash fasteners of required dia and length as per drawing / specification, at all floors and all heights.				
	Ground floor	Cum	0.539	79160.60	42639.86
<b>21</b>	32mm piasal wood or local Teak wood panelled shutters moulded panels with all labour, iron fittings, and wooden hinged cleats etc fitted and fixed complete in all respect				
	Ground floor	Sqm	28.980	4612.20	133661.56
<b>22</b>	Supplying Fitting, fixing up fully glazed aluminium framed window (sliding type) made up aluminium section 9778 as window frame, section 4095, 4096 and 9777, 3994 as shutter frame with 5mm black glass as panel fitted with rubber beading including locking arrangement including all fitting including cost of all materials, all taxes, labour, T&P excluding cost of glass etc. complete as per direction of the Engineer-in-charge				
	Gr. Floor	Sqm	83.475	1107.60	92456.91
<b>23</b>	Supplying and Fixing of <b>M.S. Grills, M.S.Doors, M.S. Gate</b> etc including cost, conveyance of all materials, priming, and labour for fitting fixing etc. complete as per the instruction of Engineer-in-Charge				
	Ground floor	Kg	154.688	62.20	9621.56
<b>24</b>	Priming one coat with wall cement primer (water bound) to make an even finished surface in all floors and heights to wall surface of approved make and shade including sand papering, applying putty wherever necessary & cost of scaffolding, staging charges with cost, conveyance, taxes of all materials, cost of all labour, labour cess T&P etc. complete as per the direction of the Engineer-in-charge.				
	Ground floor	Sqm	1231.720	64.70	79692.28
<b>25</b>	Painting two coats with approved anti-fungal weather seal paints (ISI) of approved colour, shade on wall surface over a coat of wall primer (ISI) water bound including sand papering, polishing the surface, cost, conveyances of all materials and cost of all labour, labour cess with T&P etc, complete as per specification & direction of Engineer-in-charge.				
	Ground floor	Sqm	448.500	81.00	36328.50
<b>26</b>	Finishing plastered surfaces of walls with cement based wall putty (Water based) of approved make and finishing the surface smooth and even by sand papering to receive painting in walls, at all heights with staging wherever necessary with cost, conveyance, taxes of all materials, cost of all labour, labour cess, all T&P etc. required for the work complete in all respect as per the direction of the Engineer-in-charge.				
	Ground floor	Sqm	1231.720	70.10	86343.57
<b>27</b>	Painting two coats with approved plastic emulsion paint over a coat of wall primer of make Dulux / Berger / Asian to inside surface of walls finished with Acrylic Wall putty (water based) of make (Birla / JK) and finished smooth & even surface to receive painting using roller to the final coat including cost of scaffolding staging charges with cost, conveyances, taxes of all materials, cost of labour, T&P required for the work etc. complete for all floors as per specification & direction of the Engineer-in-charge. Note :- Sample of Paint & Primer shall be approved before procurement and use.				
	Ground floor	Sqm	783.220	87.50	68531.75
<b>28</b>	Well dressed Bamboo Wall with two coat of Enamel paint				

	Ground floor	Sqm	690.400	980.00	676592.00
29	Providing fitting and fixing of thach roof				
		Sqm	810.000	920.00	745200.00
30	Providing fitting and fixing of ALU sheet in roofing including all cost conveyance taxes etc. complete.				
	Ground floor	Sqm	267.000	1078.80	288039.60
					5633501.05
		Say Rs.			5633501.00

  
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**ESTIMATE FOR CONSTRUCTION OF DINING & KITCHEN OF GHODAHADA ECO-RESORT ,BERHAMPUR,ODISHA.**

III	Dining & Kitchen						
Sl.no.	Description of Items	Nos	Length	Width	Height	Quantity	Units
1	Earthwork in excavation in hard soil for site leveling, foundation, pits, trenches and other civil works upto and including 1.5metre lift and stacking the soil upto a lead of 100 metre and including dewatering, removing slush, shoring and strutting (as required), complete as per specification and as directed by the Engineer-In-Charge.						
a.	Hard soils.						
	Peripheral wall	1	250.000	0.300	0.300	22.500	
					Total	22.500	Cum
2	Filling in foundation trenches and plinth, with excavated earth including laying the earth in layers not exceeding 23.5 cm thick ramming & watering with all leads & lifts including cost of all labour, T&P completed as directed by the Engineer-in-charge.						
	(2/3rd of Excavation)	1	22.500	area	0.670	15.075	
					Total	15.080	Cum
3	Supplying and filling sand in foundation and over areas including watering, ramming, consolidating and dressing, labours, tools, taxes etc. all complete as per the specification and direction of Engineer-In-Charge.						
	Footing						
	Peripheral wall	1	250.000	0.600	0.150	22.500	
	Plinth Area	1	845.000	1.000	0.600	507.000	
	Step	2	2.500	0.650	0.600	1.950	
		1	23.600	2.500	0.600	35.400	
					Total	566.850	Cum
4	Diluting and injecting chemical emulsion (to be supplied free of cost at site of work) for PRE CONSTRUCTIONAL Anti-termite treatment and creating a continuous chemical barrier under and all-round the column pits, wall trenches, basement excavation, top perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surroundings of pipes and conduits etc. complete as per specifications (plinth area of the building at ground floor only shall be measured for payment).						
	Internal Floor Area	1	250.000	1.000		250.000	
					Total	250.000	Sqm
5	Providing and laying plain cement concrete 1:4:8 (1 cement: 4 sand: 8 stone agregate 40mm nominal size) as levelling course in foundation and plinth etc. including tempering, curring ,shuttering etc.complete all depth and height.						
	Footing						
	Peripheral wall	1	250.000	0.600	0.100	15.000	
					Total	15.000	Cum
6	Providing and laying plain cement concrete 1:2:4 (1 cement: 2 sand: 4 stone agregate 40mm nominal size) as levelling course in foundation and plinth etc. including tempering, curring ,shuttering etc.complete all depth and height.						
	WALL	1	250.000	1.000	0.100	25.000	
					Total	25.000	Cum

7	First class Fly ash <b>Brick masonry</b> using bricks of size 25 cm. x 12 cm. x 8 cm. having crushing strength not less than 75 kg. Per. Sqr. Cm. in cement mortar of mix(1:6) with ordinary Portland slag cement(PSC) and screened & washed sand for mortar after immersing the bricks for 6 (Six) hours in water before use in <b>Foundation &amp; Plinth</b> including splays cutting, circular moulding, corbelling, chamfering and similar such type of works, watering and curing etc. including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, scaffolding, sundries, T&P required for the works etc. complete in all respect as directed by the Engineer-in-Charge.							
	Peripheral wall	1	250.000	0.500	0.150	18.750		
	Peripheral wall	1	250.000	0.375	0.150	14.063		
		1	250.000	0.250	1.000	62.500		
	Step	2	2.500	0.250	0.150	0.188		
		2	2.500	0.250	0.300	0.375		
		2	2.500	0.250	0.450	0.563		
	Step	2	23.600	0.250	0.150	1.770		
		2	21.560	0.250	0.300	3.234		
		2	19.480	0.250	0.450	4.383		
		2	17.350	0.250	0.600	5.205		
					Total	111.030	Cum	
8	Fly Ash. brick masonry of size 25 cm. x 12 cm. x 8 cm. having crushing strength not less than 75 kg. Per Sqr. Cm. in cement mortar of mix (1:6) with approved grade cement and screened & washed sand for mortar after immersing the bricks for 6 (Six) hours in water before use in <b>Superstructure</b> including splays cutting, circular moulding, corbelling, chamfering and similar such type of works, watering and curing etc. including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, scaffolding, sundries, T&P required for the works etc. complete in all respect as directed by the Engineer-in-charge							
	.25M. WALL	1	80.000	0.250	3.000	60.000		
	.75M. WALL	1	160.000	0.750	0.450	54.000		
	Deduction :- Doors & window							
	W1	-3	1.500	0.250	1.350	-1.519		
	D	-1	2.000	0.250	2.100	-1.050		
	D1	-2	1.800	0.250	2.100	-1.890		
	D2	-8	0.750	0.250	2.100	-3.150		
	D3	-2	1.000	0.250	2.100	-1.050		
	V	-6	0.450	0.250	0.600	-0.405		
					Total	104.936	Cum	
9	Half brick work with Fly Ash brick masonry in cement mortar (1:4) in super structure having a crushing strength of not less than 75 kg./sqcm with dimensional tolerance $\pm 2\%$ including splays cutting circular moulding chamfering and corbelling and similar such type of works with all necessary projections watering and curing after immersing the bricks in water at least for six hours before use including cost, conveyance, royalties and taxes of all materials with all labour,labour cess and T & P required for the work complete in all respect as per direction of Engineer-in-Charge.							
	.125M. WALL	1	30.000	0.125	2.800	10.500		
					Total	10.500	Sqm	

10	Providing, lifting, hoisting and laying Reinforced cement concrete of M-25 grade as per approved designs and drawings having a minimum compressive strength (in work test) 250 Kg. / Square cm. in 15 cm. cubes at 28 days after mixing and test conducted in accordance with I.S. 516 using 12 mm. to 20 mm. size black hard crushed broken granite stone chips and screened and washed sharp sand for mortar of approved quality from approved quarry, washed and cleaned ( 20mm. size chips not to exceeds 25 % ) to be mixed in concrete mixture with Portland slag cement (PSC) including hoisting, lowering, laying and compaction concrete by using vibrators, watering and curing for 28 days, centering and shuttering then after dismantling and removing debris from the work site and finishing the exposed surface smooth providing grooves or beads wherever necessary including cost, conveyance, loading, unloading, royalties and taxes of all materials and cost of all labours, sundries, T & P required of the work etc. complete in all respect as directed by the Engineer-in-Charge. But excluding cost and conveyance of M.S. rods or Tor steel and binding wires and labour charges for straightening, cutting,						
	a) Footing :-						
	F1(1.5 X 1.5)		1.500	1.500	0.400	0.000	
	F2(1.75 X 1.75)		1.750	1.750	0.450	0.000	
					Total	0.000	Cum
	b) Column up to plinth :-						
	C1(300 X 300)		0.300	0.300	1.625	0.000	
	C1(600 Dia)		0.282	area	1.625	0.000	
					Total	0.000	Cum
	c)Plinth Beam:-						
	PB(250X250)		8.000	0.250	0.250	0.000	
	PB(250X250)		6.000	0.250	0.250	0.000	
	PB(250X250)		20.000	0.250	0.250	0.000	
	PB(250X250)		15.000	0.250	0.250	0.000	
	PB(250X250)		4.750	0.250	0.250	0.000	
	PB(250X250)		4.130	0.250	0.250	0.000	
	PB(250X250)		1.400	0.250	0.250	0.000	
	PB(250X250)		10.500	0.250	0.250	0.000	
	PB(250X250)		20.500	0.250	0.250	0.000	
	PB(250X250)		3.850	0.250	0.250	0.000	
	PB(250X250)		7.830	0.250	0.250	0.000	
	PB(250X250)		12.500	0.250	0.250	0.000	
	PB(250X250)		7.200	0.250	0.250	0.000	
					Total	0.000	Cum
	d) Column above plinth :-						
	C1(300 X 300)		0.300	0.300	3.000	0.000	
	C1(600 Dia)		0.282	area	3.000	0.000	
					Total	0.000	Cum
	e) Lintel :- 250 wall						
	W1	3	1.500	0.250	0.150	0.169	
	D	1	2.000	0.250	0.150	0.075	
	D1	2	1.800	0.250	0.150	0.135	
	D2	8	0.750	0.250	0.150	0.225	
	D3	2	1.000	0.250	0.150	0.075	
	V	6	0.450	0.250	0.150	0.101	
					Total	0.780	Cum
	h)Roof Beam :-						
	PB(250X450)		8.000	0.250	0.450	0.000	
	PB(250X450)		6.000	0.250	0.450	0.000	
	PB(250X450)		20.000	0.250	0.450	0.000	
	PB(250X450)		15.000	0.250	0.450	0.000	
	PB(250X450)		4.750	0.250	0.450	0.000	
	PB(250X450)		4.130	0.250	0.450	0.000	
	PB(250X450)		1.400	0.250	0.450	0.000	
	PB(250X450)		10.500	0.250	0.450	0.000	



	PB(250X450)		20.500	0.250	0.450	0.000	
	PB(250X450)		3.850	0.250	0.450	0.000	
	PB(250X450)		7.830	0.250	0.450	0.000	
	PB(250X450)		12.500	0.250	0.450	0.000	
	PB(250X450)		7.200	0.250	0.450	0.000	
					Total	0.000	Cum
8	Cutting, straightening coiled or bent up M.S. Rod or tor steel of SAIL/ TATA / RINL (VIZAG) make including bending, binding, welding and joining if necessary and tying the grills and placing in position as required for R.C.C. Work and for providing fan hooks as required, hoisting, lowering, laying including cost, conveyances, taxes of M.S. Rod or tor steel and binding wires of 18 to 20 gauge and labour required for the work for bending, binding and tying the grills in all floors (Linear measurement will be taken and quantity will be calculated basing on the standard weight of B.I.S. for M.S. Rods or tor steel only. Wastage if any, including weight of binding wire will not be considered for measurement) etc. complete as per specification & direction of Engineer-in-charge.						
	a) Footing	1	0.000	Kg/Cum	110.000	0.000	
	b) Column up to plinth :-	1	0.000	Kg/Cum	230.000	0.000	
	d) Plinth Beam	1	0.000	Kg/Cum	200.000	0.000	
	e) Column above plinth :-	1	0.000	Kg/Cum	230.000	0.000	
	f) Lintel	1	0.780	Kg/Cum	150.000	117.000	
	h) Roof Beam	1	0.000	Kg/Cum	230.000	0.000	
			0.780		Total	117.000	Kg
					Total	1.170	Qtl
9	12mm cement plaster to out side of brick surfaces with cement mortar of mix 1:6 (1 cement : 6 fine sand) including necessary scaffolding, curing etc. all complete at all floors and all heights.						
	External wall	4	20.500		1.800	147.600	
		4	20.500		0.600	49.200	
		1	9.250		1.800	16.650	
		4	6.000		0.600	14.400	
		2	15.500		3.600	111.600	
		2	12.500		3.600	90.000	
		2	15.500		0.600	18.600	
		2	12.500		0.600	15.000	
	Deduction :- Door & window						
	D	-1	2.000		2.100	-4.200	
	D1	-1	1.800		2.100	-3.780	
	W	-3	3.000		0.550	-4.950	
	V	-6	0.450		0.600	-1.620	
					Total	448.500	Sqm
10	16mm cement plaster to inside of brick surfaces with cement mortar of mix 1:6 (1 cement : 6 fine sand) including necessary scaffolding, curing etc. all complete at all floors and all heights.						
	Dining	8	9.000		3.500	252.000	
	Column	4	1.885		3.500	26.390	
	Toilet	4	2.480		3.500	34.720	
		4	3.850		3.500	53.900	
		12	1.400		3.500	58.800	
		12	1.200		3.500	50.400	
	Kitchen	2	12.000		3.500	84.000	
		2	10.000		3.500	70.000	
	Wash	2	4.750		3.500	33.250	
		2	2.800		3.500	19.600	
	Storage	2	4.750		3.500	33.250	
		2	2.800		3.500	19.600	
	Cold store	2	4.750		3.500	33.250	
		2	3.880		3.500	27.160	
	Deduction :- Door & window						
	D	-1	2.000		2.000	-4.000	

	D1	-1	1.800		2.000	-3.600	
	D2	-1	0.750		2.000	-1.500	
	D3	-2	1.000		2.000	-4.000	
					Total	783.220	Sqm
11	Supplying, fitting & fixing of <b>10 mm thick &amp; size of 600x600 mm verified floor tile of matt finish with veilcraft (VC/FT) shield( Scratch free/stain free) with water absorption limit between 0.08% to 3% and conforming to IS : 15622:2006 (Group B Ib)</b> . laid on 20 mm thick cement mortar (1:4) (1 cement : 4 course sand) 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 the Engineer-in-charge (for New Work only )						
	Dining	2	10.000	8.000		160.000	
		1	20.000	20.000		400.000	
	Kitchen	1	12.000	10.000		120.000	
	Store	1	4.750	2.750		13.063	
	Cold store	1	4.750	3.880		18.430	
		1	5.000	1.830		9.150	
	Deduction:-						
	Toilet	-1	7.950	4.130		-32.834	
					Total	687.809	Sqm
12	Supplying, fitting & fixing of <b>10 mm thick and size of 600x600 mm verified wall tile of</b> in dadoes, skirting and risers of steps of laid on 12 mm thick cement mortar (1:3) (1 cement : 3 course sand) jointed with slurry mixed with pigment to match the shades of the tiles etc. complete including cost of all materials, labour T&P etc. required for the work all complete as per direction of the Engineer-in-charge.						
	Dining	4	10.000		0.150	6.000	
		4	8.000		0.150	4.800	
		2	20.000		0.150	6.000	
		2	20.000		0.150	6.000	
	Kitchen	2	12.000		0.150	3.600	
		2	10.000		0.150	3.000	
	Store	2	4.750		0.150	1.425	
		2	2.750		0.150	0.825	
	Cold store	2	4.750		0.150	1.425	
		2	3.880		0.150	1.164	
		2	5.000		0.150	1.500	
		2	1.830		0.150	0.549	
					Total	35.739	Sqm

13	Supplying, fitting and fixing of Antiskid Ceramic Floor Tiles in flooring using special plain / printed series Ceramic Floor Tile of premium grade ( having minimum thickness 7 mm to 8 mm & size 300 mm x300 mm, confirming to I.S 13755 of approved quality and shade in floors, treads on steps and landings on 20 m.m thick bed of cement mortar of mix (1:4) laid in proper slope and gradient with screened & washed sharp river sand for mortar and fixing with neat white cement slurry, grouting the joints with neat white cement slurry mixed with required quantities of pigments (Tiles are to be immersed in the water for required time before use) of approved make to match the shades of the Ceramic Floor Tiles if required including cost, conveyance, loading, unloading, stacking, royalties , all taxes, cost of all Labour, Labour cess ,Sundries, T&P required for the work , Watering , Curing for required days , cleaning the flooring space manually etc. complete in all respect as directed by the Engineer-in-charge.						
	wc (6 nos)	6	1.400	1.200		10.080	
		2	3.850	2.480		19.096	
	Passage	2	6.000	2.100		25.200	
		1	7.200	2.100		15.120	
					Total	69.496	Sqm
14	Supplying, fitting & fixing of <b>Ceramic wall tiles of premium grade of size(200x300 mm/200x200 mm) having thickness 6.5mm to 6.7mm confirming to IS 13753</b> in dadoes, skirting and risers of steps laid on 12 mm thick cement mortar (1:3) (1 cement : 3 course sand) jointed with slurry mixed with pigment to match the shades of the tiles etc. complete including cost of all materials, labour T&P etc. required for the work all complete as per direction of the Engineer-in-charge						
	WC	12	1.400		2.100	35.280	
		12	1.200		2.100	30.240	
		4	2.480		2.100	20.832	
		4	3.850		2.100	32.340	
	Deduction :- Door & window						
	D3	-12	0.750		2.100	-18.900	
	D1	-2	1.000		2.100	-4.200	
					Total	95.592	Sqm
15	Supplying, fitting & fixing of Granite Tiles of minimum Above 0.40 sqm. (20mm thick) of approved make in floors laid on 20 mm thick cement mortar (1:4) (1 cement : 4 course sand) and filling joints with slurry including cost of all materials, labour T&P etc. required for the work all complete incl. rubbing as per direction of the Engineer-in-charge						
	Step	6	2.500	0.300		4.500	
		1	23.600	0.300		7.080	
		1	21.560	0.300		6.468	
		1	19.480	0.300		5.844	
		1	17.350	1.600		27.760	
					Total	51.652	Sqm
16	Supplying, fitting & fixing of Granite Tiles of minimum Above 0.10 Sqm & up to 0.4 sqm (10mm. thick) of approved make in dadoes laid on 12 mm thick cement mortar (1:3) (1 cement : 3 course sand) and filling joints with slurry including cost of all materials, labour T&P etc. required for the work all complete incl. rubbing as per direction of the Engineer-in-charge.						
	Step	6	2.500		0.150	2.250	
		1	23.600		0.150	3.540	
		1	21.560		0.150	3.234	

		1	19.480		0.150	2.922	
		1	17.350		0.150	2.603	
					Total	14.549	Sqm
17	Providing and fixing seasoned sal wood work in frames at any locations including doors, windows, cupboard, clerestory and other frames fixing in position including cost of hinges, M.S. flat (30mm x 6mm) hold fasts lugs or dash fasteners of required dia and length as per drawing / specification, at all floors and all heights.						
	D	1	6.200	0.125	0.063	0.049	
	D1	1	6.000	0.125	0.063	0.047	
	D2	1	5.700	0.125	0.063	0.045	
	D3	4	5.200	0.125	0.063	0.164	
	D4	6	4.950	0.125	0.063	0.234	
					Total	0.539	Cum
15	32mm piasal wood or local Teak wood panelled shutters moulded panels with all labour, iron fittings, and wooden hinged cleats etc fitted and fixed complete in all respect						
	D	1	2.000		2.100	4.200	
	D1	1	1.800		2.100	3.780	
	D2	1	1.500		2.100	3.150	
	D3	4	1.000		2.100	8.400	
	D4	6	0.750		2.100	9.450	
					Total	28.980	Sqm
16	Supplying Fitting, fixing up fully glazed aluminium framed window (sliding type) made up aluminium section 9778 as window frame, section 4095, 4096 and 9777, 3994 as shutter frame with 5mm black glass as panel fitted with rubber beading including locking arrangement including all fitting including cost of all materials, all taxes, labour, T&P excluding cost of glass etc. complete as per direction of the Engineer-in-charge						
					Kg/Sqm		
	W	3	3.000	5.000	1.675	75.375	
	V	6	0.450	5.000	0.600	8.100	
					Total	83.475	kg
17	Supplying and Fixing of <b>M.S. Grills, M.S.Doors, M.S. Gate</b> etc including cost, conveyance of all materials, priming, and labour for fitting fixing etc. complete as per the instruction of Engineer-in-Charge						
					kg/Sqft		
	W1	3	1.500	25.000	1.375	154.688	
					Total	154.688	kg
16	Priming one coat with wall cement primer (water bound) to make an even finished surface in all floors and heights to wall surface of approved make and shade including sand papering, applying putty wherever necessary & cost of scaffolding, staging charges with cost, conveyance, taxes of all materials, cost of all labour, labour cess T&P etc. complete as per the direction of the Engineer-in-charge.						
	External wall	1	448.500	area		448.500	
	Internal wall	1	783.220	area		783.220	
					Total	1231.720	Sqm

17	Painting two coats with approved anti-fungal weather seal paints (ISI) of approved colour, shade on wall surface over a coat of wall primer(ISI) water bound including sand papering, polishing the surface, cost, conveyances of all materials and cost of all labour,labour cess with T&P etc, complete as per specification & direction of Engineer-in-charge.						
	External wall	1	448.500	area		448.500	
					Total	448.500	Sqm
18	Finishing plastered surfaces of walls with cement based wall putty (Water based) of approved make and finishing the surface smooth and even by sand papering to receive painting in walls, at all heights with staging wherever necessary with cost, conveyance, taxes of all materials, cost of all labour,labourcess, all T&P etc. required for the work complete in all respect as per the direction of the Engineer-in-charge.						
	External wall	1	448.500	area		448.500	
	Internal wall	1	783.220	area		783.220	
					Total	1231.720	Sqm
19	Painting two coats with approved distempering paint over a coat of wall primer of make Dulux / Berger / Asian to inside surface of walls finished with Acrylic Wall putty (water based) of make (Birla / JK) and finished smooth & even surface to receive painting using roller to the final coat including cost of scaffolding staging charges with cost, conveyances, taxes of all materials, cost of labour, T&P required for the work etc. complete for all floors as per specification & direction of the Engineer-in-charge. Note :- Sample of Paint & Primer shall be approved before procurement and use.						
	Internal wall	1	783.220	area		783.220	
					Total	783.220	Sqm
20	Well dressed Bamboo Wall with two coat of Enamel paint including cost of all labour & materials etc.						
	Dining	1	64.000		3.000	192.000	
		2	89.000		2.800	498.400	
					Total	690.400	Sqm
21	Providing fitting and fixing of thach roof						
	Dining	2	115.000	1.000		230.000	
		1	580.000	1.000		580.000	
					Total	810.000	Sqm
22	Providing fitting and fixing of ALU. Sheet roof						
		1	267.000	1.000		267.000	
					Total	267.000	Sqm

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**COLLECTOR,**  
**GANJAM CHATRAPUR**

<b>ABSTRACT OF ESTIMATE FOR CONSTRUCTION OF COTTAGE OF GHODAHADA ECO-RESORT ,BERHAMPUR,ODISHA.</b>					
<b>IV</b>	<b>Cottage 10 Nos</b>				
<b>Sl.no.</b>	<b>Description of Items</b>	<b>UNIT</b>	<b>QNTY</b>	<b>RATE</b>	<b>AMOUNT Rs.</b>
<b>1</b>	Earthwork in excavation in hard soil for site leveling, foundation, pits, trenches and other civil works upto and including 1.5metre lift and stacking the soil upto a lead of 100 metre and including dewatering, removing slush, shoring and strutting (as required), complete as per specification and as directed by the Engineer-In-Charge.				
<b>a.</b>	Hard soils.	Cum	77.000	206.80	15923.60
<b>2</b>	Filling at all depth with available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 15cm in depth: consolidating each deposited layer by ramming and watering complete (lead upto 100m) as directed by the Engineer-In-charge.				
		Cum	73.700	114.90	8468.13
<b>3</b>	Supplying and filling sand in foundation and over areas including watering, ramming, consolidating and dressing, labours, tools, taxes etc. all complete as per the specification and direction of Engineer-In-Charge.				
		Cum	123.600	710.30	87793.08
<b>4</b>	Diluting and injecting chemical emulsion (to be supplied free of cost at site of work) for PRE CONSTRUCTIONAL Anti-termite treatment and creating a continuous chemical barrier under and all-round the column pits, wall trenches, basement excavation, top perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surroundings of pipes and conduits etc. complete as per specifications (plinth area of the building at ground floor only shall be measured for payment).				
		Sqm	130.000	138.00	17940.00
<b>5</b>	Providing and laying plain cement concrete 1:4:8 (1 cement: 4 sand: 8 stone agregate 40mm nominal size) as levelling course in foundation and plinth etc. including tempering, curring ,shuttering etc.complete all depth and height.				
		Cum	6.600	5985.60	39504.96
<b>6</b>	Providing and laying plain cement concrete 1:2:4 (1 cement: 2 sand: 4 stone agregate 40mm nominal size) as levelling course in foundation and plinth etc. including tempering, curring ,shuttering etc.complete all depth and height.				
		Cum	13.000	7630.50	99196.50
<b>7</b>	First class Fly ash <b>Brick masonry</b> using bricks of size 25 cm. x 12 cm. x 8 cm. having crushing strength not less than 75 kg. Per. Sqr. Cm. in cement mortar of mix( 1:6) with ordinary Portland slag cement(PSC) and screened & washed sand for mortar after immersing the bricks for 6 (Six) hours in water before use in <b>Foundation &amp; Plinth</b> including splays cutting, circular moulding, corbelling, chamfering and similar such type of works, watering and curing etc. including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, scaffolding, sundries, T&P required for the works etc. complete in all respect as directed by the Engineer-in-Charge.				
		Cum	62.510	5727.70	358038.53

8	Fly Ash. brick masonry of size 25 cm. x 12 cm. x 8 cm. having crushing strength not less than 75 kg. Per Sqr. Cm. in cement mortar of mix (1:6) with approved grade cement and screened & washed sand for mortar after immersing the bricks for 6 (Six) hours in water before use in <b>Superstructure</b> including splays cutting, circular moulding, corbelling, chamfering and similar such type of works, watering and curing etc. including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, scaffolding, sundries, T&P required for the works etc. complete in all respect as directed by the Engineer-in-charge				
	Ground floor	Cum	17.685	5766.00	101971.71
9	Half brick work with Fly Ash brick masonry in cement mortar (1:4) in super structure having a crushing strength of not less than 75 kg./sqcm with dimensional tolerance $\pm 2\%$ including splays cutting circular moulding chamfering and corbelling and similar such type of works with all necessary projections watering and curing after immersing the bricks in water at least for six hours before use including cost, conveyance, royalties and taxes of all materials with all labour,labour cess and T & P required for the work complete in all respect as per direction of Engineer-in-Charge.				
	Ground floor	Sqm	24.500	740.36	18138.88
10	Providing, lifting, hoisting and laying Reinforced cement concrete of M-25 grade as per approved designs and drawings having a minimum compressive strength (in work test) 250 Kg. / Square cm. in 15 cm. cubes at 28 days after mixing and test conducted in accordance with I.S. 516 using 12 mm. to 20 mm. size black hard crushed broken granite stone chips and screened and washed sharp sand for mortar of approved quality from approved quarry, washed and cleaned ( 20mm. size chips not to exceeds 25 % ) to be mixed in concrete mixture with Portland slag cement (PSC) including hoisting, lowering, laying and compaction concrete by using vibrators, watering and curing for 28 days, centering and shuttering then after dismantling and removing debris from the work site and finishing the exposed surface smooth providing grooves or beads wherever necessary including cost, conveyance, loading, unloading, royalties and taxes of all materials and cost of all labours, sundries, T & P required of the work etc. complete in all respect as directed by the Engineer-in-Charge. But excluding cost and conveyance of M.S. rods or Tor steel and binding wires and labour charges for straightening, cutting, bending etc. of M.S. rods				
	<b>Ground floor</b>				
	a) Lintel	Cum	0.028	14117.20	397.05
11	Cutting, straightening coiled or bent up M.S. Rod or tor steel of SAIL/ TATA / RINL (VIZAG) make including bending, binding, welding and joining if necessary and tying the grills and placing in position as required for R.C.C. Work and for providing fan hooks as required, hoisting, lowering, laying including cost, conveyances, taxes of M.S. Rod or tor steel and binding wires of 18 to 20 gauge and labour required for the work for bending, binding and tying the grills in all floors (Linear measurement will be taken and quantity will be calculated basing on the standard weight of B.I.S. for M.S. Rods or tor steel only. Wastage if any, including weight of binding wire will not be considered for measurement) etc. complete as per specification & direction of Engineer-in-charge.				
	Ground floor	Qntl	0.000	8950.20	0.00
12	12mm cement plaster to out side of brick surfaces with cement mortar of mix 1:6 (1 cement : 6 fine sand) including necessary scaffolding, curing etc. all complete at all floors and all heights.				
	Ground floor	Sqm	75.060	162.60	12204.76

13	16mm cement plaster to inside of brick surfaces with cement mortar of mix 1:6 (1 cement : 6 fine sand) including necessary scaffolding, curing etc. all complete at all floors and all heights.				
	Ground floor	Sqm	59.940	229.60	13762.22
14	6mm cement plaster to out side of brick surfaces with cement mortar of mix 1:4 (1 cement : 4 fine sand) including necessary scaffolding, curing etc. all complete at all floors and all heights.				
	Ground floor	Sqm	20.314	172.20	3498.00
15	Supplying, fitting & fixing of <b>10 mm thick &amp; size of 600x600 mm verified floor tile of matt finish with veilcraft (VC/FT ) shield( Scratch free/stain free) with water absorption limit between 0.08% to 3% and conforming to IS : 15622:2006 (Group B Ib).</b> laid on 20 mm thick cement mortar (1:4) (1 cement : 4 course sand) 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 the Engineer-in-charge (for New Work only )				
	Ground floor	Sqm	73.448	1109.20	81468.52
16	Supplying, fitting & fixing of <b>10 mm thick and size of 600x600 mm verified wall tile of in dadoes, skirting and risers of steps</b> of laid on 12 mm thick cement mortar (1:3) (1 cement : 3 course sand) jointed with slurry mixed with pigment to match the shades of the tiles etc. complete including cost of all materials, labour T&P etc. required for the work all complete as per direction of the Engineer-in-charge.				
	Ground floor	Sqm	8.424	1206.20	10161.03
17	Supplying, fitting and fixing of Antiskid Ceramic Floor Tiles in flooring using special plain / printed series Ceramic Floor Tile of premium grade ( having minimum thickness 7 mm to 8 mm & size 300 mm x300 mm, confirming to I.S 13755 of approved quality and shade in floors, treads on steps and landings on 20 m.m thick bed of cement mortar of mix (1:4) laid in proper slope and gradient with screened & washed sharp river sand for mortar and fixing with neat white cement slurry,grouting the joints with neat white cement slurry mixed with required quantities of pigments (Tiles are to be immersed in the water for required time before use) of approved make to match the shades of the Ceramic Floor Tiles if required including cost, conveyance, loading, unloading, stacking, royalties , all taxes, cost of all Labour, Labour cess ,Sundries, T&P required for the work , Watering , Curing for required days , cleaning the flooring space manually etc. complete in all respect as directed by the Engineer-in-charge.				
	Ground floor	Sqm	20.413	642.70	13119.31
18	Supplying, fitting & fixing of <b>Ceramic wall tiles of premium grade of size(200x300 mm/200x200 mm) having thickness 6.5mm to 6.7mm confirming to IS 13753</b> in dadoes, skirting and risers of steps laid on 12 mm thick cement mortar (1:3) (1 cement : 3 course sand) jointed with slurry mixed with pigment to match the shades of the tiles etc. complete including cost of all materials, labour T&P etc. required for the work all complete as per direction of the Engineer-in-charge				
	Ground floor	Sqm	38.010	698.30	26542.38



19	Supplying, fitting & fixing of Granite Tiles of minimum Above 0.40 sqm. (20mm thick) of approved make in floors laid on 20 mm thick cement mortar (1:4) (1 cement : 4 course sand) and filling joints with slurry including cost of all materials, labour T&P etc. required for the work all complete incl. rubbing as per direction of the Engineer-in-charge.				
	Ground floor	Sqm	4.500	2777.00	12496.50
20	Supplying, fitting & fixing of Granite Tiles of minimum Above 0.10 Sqm & up to 0.4 sqm (10mm. thick) of approved make in dadoes laid on 12 mm thick cement mortar (1:3) (1 cement : 3 course sand) and filling joints with slurry including cost of all materials, labour T&P etc. required for the work all complete incl. rubbing as per direction of the Engineer-in-charge.				
	Ground floor	Sqm	3.240	1992.50	6455.70
21	Providing and fixing seasoned sal wood work in frames at any locations including doors, windows, cupboard, clerestory and other frames fixing in position including cost of hinges, M.S. flat (30mm x 6mm) hold fasts lugs or dash fasteners of required dia and length as per drawing / specification, at all floors and all heights.				
	Ground floor	Cum	0.078	79160.60	6171.56
22	32mm piasal wood or local Teak wood panelled shutters moulded panels with all labour, iron fittings, and wooden hinged cleats etc fitted and fixed complete in all respect				
	Ground floor	Sqm	3.150	4612.20	14528.43
23	Factory made GIRID FRP or called GRP sandwich composite door shutter of 32mm thick laminated with two GRP skin with good grain finish fabricated using UV stabilised isopthalic gel coat and one layer of 450 gsm E-glass chopped strand mat (CSM) impregnated with ortopathilic resin The thickness of the skins shall not be less than 1.50mm . Expanded polysryne ( EPS) structural foam panel of 29 mm tickness and a density of 20kg/cu.mts shall be used as core material wooden reinforcements made of sesasoned sal wood block of cross section not less than 28mm x 32mm and also necessary sal wood reinforcements for fitting the metal fittings such as lower bolts ,aldrops, handles etc. shall be provided . A structural adhesive compatible with (EPS)foam shall be used for bending the core material. the sal wood reinforcements and the skin The material and process for manufacturing te door shutter shall conform to RV -TIFAC components design centre's standards and specification and the door shutters tested in conformation to IS 4020-1998. The Finish of door shutter will be plain colour as per specification and direction of the Engineer in Charge. etc. complete				
	Ground floor	Sqm	4.200	3916.10	16447.62
24	Supplying Fitting, fixing up fully glazed aluminium framed window (sliding type) made up aluminium section 9778 as window frame, section 4095, 4096 and 9777, 3994 as shutter frame with 5mm black glass as panel fitted with rubber beading including locking arrangement including all fitting including cost of all materials, all taxes, labour, T&P excluding cost of glass etc. complete as per direction of the Engineer-in-charge				
	Gr. Floor	Sqm	108.225	1107.60	119870.01

12496.50	25 Priming one coat with wall cement primer (water bound) to make an even finished surface in all floors and heights to wall surface of approved make and shade including sand papering, applying putty wherever necessary & cost of scaffolding, staging charges with cost, conveyance, taxes of all materials, cost of all labour,labour cess T&P etc. complete as per the direction of the Engineer-in-charge.				
	Ground floor	Sqm	155.314	64.70	10048.79
6455.70	26 Painting two coats with approved anti-fungal weather seal paints (ISI) of approved colour, shade on wall surface over a coat of wall primer(ISI) water bound including sand papering, polishing the surface, cost, conveyances of all materials and cost of all labour,labour cess with T&P etc, complete as per specification & direction of Engineer-in-charge.				
	Ground floor	Sqm	75.060	81.00	6079.86
6171.56	27 Finishing plastered surfaces of walls with cement based wall putty (Water based) of approved make and finishing the surface smooth and even by sand papering to receive painting in walls, at all heights with staging wherever necessary with cost, conveyance, taxes of all materials, cost of all labour,labourcess, all T&P etc. required for the work complete in all respect as per the direction of the Engineer-in-charge.				
	Ground floor	Sqm	42.000	70.10	2944.20
14528.43	28 Painting two coats with approved plastic emulsion paint over a coat of wall primer of make Dulux / Berger / Asian to inside surface of walls finished with Acrylic Wall putty (water based) of make (Birla / JK) and finished smooth & even surface to receive painting using roller to the final coat including cost of scaffolding staging charges with cost, conveyances, taxes of all materials, cost of labour, T&P required for the work etc. complete for all floors as per specification & direction of the Engineer-in-charge. Note :- Sample of Paint & Primer shall be approved before procurement and use.				
	Ground floor	Sqm	80.254	82.30	6604.87
	29 Well dressed Bamboo Wall with two coat of Enamel paint including cost of all labour & materials etc.				
	Ground floor	Sqm	255.441	1796.00	458772.04
	30 Providing fitting and fixing of thach roof				
	Ground floor	Sqm	185.000	920.00	170200.00
	<b>Total</b>				<b>1738748.23</b>
	<b>Total 10 Nos Cottage</b>				<b>17387482.32</b>
	<b>Say Rs.</b>				<b>17387482.00</b>

16447.62

  
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 Berhampur Division

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**COLLECTOR,**  
 GANJAM, CHATRAPUR

ESTIMATE FOR CONSTRUCTION OF COTTAGE OF GHODAHADA RESORT ,BERHAMPUR,ODISHA.							ECO-
IV	Cottage						
Sl.no.	Description of Items	Nos	Length	Width	Height	Quantity	Units
1	Earthwork in excavation in hard soil for site leveling, foundation, pits, trenches and other civil works upto and including 1.5metre lift and stacking the soil upto a lead of 100 metre and including dewatering, removing slush, shoring and strutting (as required), complete as per specification and as directed by the Engineer-In-Charge.						
a.	Hard soils.						
	Peripheral wall	1	110.000	1.000	0.700	77.000	
					Total	77.000	Cum
2	Filling in foundation trenches and plinth, with excavated earth including laying the earth in layers not exceeding 23.5 cm thick ramming & watering with all leads & lifts including cost of all labour,T&P completed as directed by the Engineer-in-charge.						
	(2/3rd of Excavation)	1	110.000	area	0.670	73.700	
					Total	73.700	Cum
3	Supplying and filling sand in foundation and over areas including watering, ramming, consolidating and dressing, labours, tools, taxes etc. all complete as per the specification and direction of Engineer-In-Charge.						
	Footing						
	Peripheral wall	1	110.000	0.600	0.100	6.600	
	Plinth Area	1	130.000	1.000	0.900	117.000	
					Total	123.600	Cum
4	Diluting and injecting chemical emulsion (to be supplied free of cost at site of work) for PRE CONSTRUCTIONAL Anti-termite treatment and creating a continuous chemical barrier under and all-round the column pits, wall trenches, basement excavation, top perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surroundings of pipes and conduits etc. complete as per specifications (plinth area of the building at ground floor only shall be measured for payment).						
	Internal Floor Area	1	130.000	1.000		130.000	
					Total	130.000	Sqm
5	Providing and laying plain cement concrete 1:4:8 (1 cement: 4 sand: 8 stone agregate 40mm nominal size) as levelling course in foundation and plinth etc. including tempering, curring ,shuttering etc.complete all depth and height.						
	Footing						
	Peripheral wall	1	110.000	0.600	0.100	6.600	
					Total	6.600	Cum
6	Providing and laying plain cement concrete 1:2:4 (1 cement: 2 sand: 4 stone agregate 40mm nominal size) as levelling course in foundation and plinth etc. including tempering, curring ,shuttering etc.complete all depth and height.						
	Plinth Area	1	130.000	1.000	0.100	13.000	
					Total	13.000	Cum

7	First class Fly ash <b>Brick masonry</b> using bricks of size 25 cm. x 12 cm. x 8 cm. having crushing strength not less than 75 kg. Per. Sqr. Cm. in cement mortar of mix(1:6) with ordinary Portland slag cement(PSC) and screened & washed sand for mortar after immersing the bricks for 6 (Six) hours in water before use in <b>Foundation &amp; Plinth</b> including splays cutting, circular moulding, corbelling, chamfering and similar such type of works, watering and curing etc. including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, scaffolding, sundries, T&P required for the works etc. complete in all respect as directed by the Engineer-in-Charge.						
	Peripheral wall	1	110.000	0.750	0.250	20.625	
	Peripheral wall	1	110.000	0.500	0.250	13.750	
		1	110.000	0.250	0.920	25.300	
	Step	2	1.800	0.250	0.150	0.135	
		2	1.800	0.250	0.300	0.270	
		2	1.800	0.250	0.450	0.405	
		2	1.800	0.250	0.600	0.540	
		2	1.800	0.250	0.750	0.675	
		2	1.800	0.250	0.900	0.810	
					Total	62.510	Cum
8	Fly Ash. brick masonry of size 25 cm. x 12 cm. x 8 cm. having crushing strength not less than 75 kg. Per Sqr. Cm. in cement mortar of mix (1:6) with approved grade cement and screened & washed sand for mortar after immersing the bricks for 6 (Six) hours in water before use in <b>Superstructure</b> including splays cutting, circular moulding, corbelling, chamfering and similar such type of works, watering and curing etc. including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, scaffolding, sundries, T&P required for the works etc. complete in all respect as directed by the Engineer-in-charge						
		1	27.000	0.250	2.800	18.900	
	Deduction :- Doors	-2	0.600	0.250	2.100	-0.630	
	window	-2	0.600	0.250	1.350	-0.405	
	V	-2	0.600	0.250	0.600	-0.180	
					Total	17.685	Cum
9	Half brick work with Fly Ash brick masonry in cement mortar (1:4) in super structure having a crushing strength of not less than 75 kg./sqcm with dimensional tolerance $\pm 2\%$ including splays cutting circular moulding chamfering and corbelling and similar such type of works with all necessary projections watering and curing after immersing the bricks in water at least for six hours before use including cost, conveyance, royalties and taxes of all materials with all labour,labour cess and T & P required for the work complete in all respect as per direction of Engineer-in-Charge.						
		1	11.000		2.800	30.800	
	D3	-4	0.750		2.100	-6.300	
					Total	24.500	Sqm

10	Providing, lifting, hoisting and laying Reinforced cement concrete of M-25 grade as per approved designs and drawings having a minimum compressive strength (in work test) 250 Kg. / Square cm. in 15 cm. cubes at 28 days after mixing and test conducted in accordance with I.S. 516 using 12 mm. to 20 mm. size black hard crushed broken granite stone chips and screened and washed sharp sand for mortar of approved quality from approved quarry, washed and cleaned ( 20mm. size chips not to exceeds 25 % ) to be mixed in concrete mixture with Portland slag cement (PSC) including hoisting, lowering, laying and compaction concrete by using vibrators, watering and curing for 28 days, centering and shuttering then after dismantling and removing debris from the work site and finishing the exposed surface smooth providing grooves or beads wherever necessary including cost, conveyance, loading, unloading, royalties and taxes of all materials and cost of all labours, sundries, T & P required of the work etc. complete in all respect as directed by the Engineer-in-Charge. But excluding cost and conveyance of M.S. rods or Tor steel and binding wires and labour charges for straightening, cutting, bending etc. of M.S. rods or tor steel tying the grills and placing in proper						
	a) Lintel :-						
	<b>250 mm Wall</b>	1	0.600	0.250	0.150	0.023	
	<b>125 mm Wall</b>	2	0.750	0.125	0.150	0.028	
					Total	0.028	Cum
8	Cutting, straightening coiled or bent up M.S. Rod or tor steel of SAIL/ TATA / RINL (VIZAG) make including bending, binding, welding and joining if necessary and tying the grills and placing in position as required for R.C.C. Work and for providing fan hooks as required, hoisting, lowering, laying including cost, conveyances, taxes of M.S. Rod or tor steel and binding wires of 18 to 20 gauge and labour required for the work for bending, binding and tying the grills in all floors (Linear measurement will be taken and quantity will be calculated basing on the standard weight of B.I.S. for M.S. Rods or tor steel only. Wastage if any, including weight of binding wire will not be considered for measurement) etc. complete as per specification & direction of Engineer-in-charge.						
	a) Lintel	1	0.028	Kg/Cum	110.000	3.094	
9	12mm cement plaster to out side of brick surfaces with cement mortar of mix 1:6 (1 cement : 6 fine sand) including necessary scaffolding, curing etc. all complete at all floors and all heights.						
	External wall	1	27.000		2.800	75.600	
	V	-2	0.600		0.450	-0.540	
					Total	75.060	Sqm
10	16mm cement plaster to inside of brick surfaces with cement mortar of mix 1:6 (1 cement : 6 fine sand) including necessary scaffolding, curing etc. all complete at all floors and all heights.						
	Toilet	2	5.800		2.800	32.480	
	Dress	2	5.000		2.800	28.000	
	V	-2	0.600		0.450	-0.540	
					Total	59.940	Sqm
11	6mm cement plaster to out side of brick surfaces with cement mortar of mix 1:4 (1 cement : 4 fine sand) including necessary scaffolding, curing etc. all complete at all floors and all heights.						
	Toilet	2	2.800	1.800		10.080	
	Dress	2	2.460	2.080		10.234	
					Total	20.314	Sqm

12	Supplying, fitting & fixing of <b>10 mm thick &amp; size of 600x600 mm verified floor tile of matt finish with veilcraft (VC/FT) shield( Scratch free/stain free) with water absorption limit between 0.08% to 3% and conforming to IS : 15622:2006 (Group B Ib)</b> , laid on 20 mm thick cement mortar (1:4) (1 cement : 4 course sand) 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 the Engineer-in-charge (for New Work only )						
	Bed room	2	5.000	5.300		53.000	
	Verndah	2	5.680	1.800		20.448	
					Total	73.448	Sqm
13	Supplying, fitting & fixing of <b>10 mm thick and size of 600x600 mm verified wall tile</b> of in dadoes, skirting and risers of steps of laid on 12 mm thick cement mortar (1:3) (1 cement : 3 course sand) jointed with slurry mixed with pigment to match the shades of the tiles etc. complete including cost of all materials, labour T&P etc. required for the work all complete as per direction of the Engineer-in-charge.						
	Bed room	4	5.300		0.150	3.180	
		4	5.000		0.150	3.000	
	Verndah	2	5.680		0.150	1.704	
		2	1.800		0.150	0.540	
					Total	8.424	Sqm
14	Supplying, fitting and fixing of Antiskid Ceramic Floor Tiles in flooring using special plain / printed series Ceramic Floor Tile of premium grade ( having minimum thickness 7 mm to 8 mm & size 300 mm x300 mm, confirming to I.S 13755 of approved quality and shade in floors, treads on steps and landings on 20 m.m thick bed of cement mortar of mix (1:4) laid in proper slope and gradient with screened & washed sharp river sand for mortar and fixing with neat white cement slurry,grouting the joints with neat white cement slurry mixed with required quantities of pigments (Tiles are to be immersed in the water for required time before use) of approved make to match the shades of the Ceramic Floor Tiles if required including cost, conveyance, loading, unloading, stacking, royalties , all taxes, cost of all Labour, Labour cess ,Sundries, T&P required for the work , Watering , Curing for required days , cleaning the flooring space manually etc. complete in all respect as directed by the Engineer-in-charge.						
	Toilet	2	2.800	2.100		11.760	
	Dress	2	2.080	2.080		8.653	
					Total	20.413	Sqm
15	Supplying, fitting & fixing of <b>Ceramic wall tiles of premium grade of size(200x300 mm/200x200 mm) having thickness 6.5mm to 6.7mm confirming to IS 13753</b> in dadoes, skirting and risers of steps laid on 12 mm thick cement mortar (1:3) (1 cement : 3 course sand) jointed with slurry mixed with pigment to match the shades of the tiles etc. complete including cost of all materials, labour T&P etc. required for the work all complete as per direction of the Engineer-in-charge						
	Toilet	4	2.800		2.100	23.520	
		4	2.100		2.100	17.640	
	Deduction :- Door & window D2	-2	0.750		2.100	-3.150	
					Total	38.010	Sqm

16	Supplying, fitting & fixing of Granite Tiles of minimum Above 0.40 sqm. (20mm thick) of approved make in floors laid on 20 mm thick cement mortar (1:4) (1 cement : 4 course sand) and filling joints with slurry including cost of all materials, labour T&P etc. required for the work all complete incl. rubbing as per direction of the Engineer-in-charge						
	Step	10	1.800	0.250		4.500	
					Total	4.500	Sqm
17	Supplying, fitting & fixing of Granite Tiles of minimum Above 0.10 Sqm & up to 0.4 sqm (10mm. thick) of approved make in dadoes laid on 12 mm thick cement mortar (1:3) (1 cement : 3 course sand) and filling joints with slurry including cost of all materials, labour T&P etc. required for the work all complete incl. rubbing as per direction of the Engineer-in-charge.						
	Step	12	1.800		0.150	3.240	
					Total	3.240	Sqm
18	Providing and fixing WPC frames at any locations including doors, fixing in position including cost of hinges, M.S. flat (30mm x 6mm) hold fasts lugs or dash fasteners of required dia and length as per drawing / specification, at all floors and all heights.						
	D2	2	4.950	0.125	0.063	0.078	

19	32mm WPC panelled shutters moulded panels with all labour, iron fittings, and wooden hinged cleats etc fitted and fixed complete in all respect				Total	0.078	Cum
	D2	2	0.750		2.100	3.150	
					Total	3.150	Sqm
20	Factory made GIRID FRP or called GRP sandwich composite door shutter of 32mm thick laminated with two GRP skin with good grain finish fabricated using UV stabilised isopthalic gel coat and one layer of 450 gsm E-glass chopped strand mat (CSM) impregnated with ortopathilic resin The thickness of the skins shall not be less than 1.50mm . Expanded polysryne ( EPS) structural foam panel of 29 mm tickness and a density of 20kg/cu.mts shall be used as core material wooden reinforcements made of sesasoned sal wood block of cross section not less than 28mm x 32mm and also necessary sal wood reinforcements for fitting the metal fittings such as lower bolts ,aldrops, handles etc. shall be provided . A structural adhesive compatible with (EPS)foam shall be used for bending the core material. the sal wood reinforcements and the skin The material and process for manufacturing te door shutter shall conform to RV -TIFAC components design centre's standards and specification and the door shutters tested in conformation to IS 4020-1998. The Finish of door shutter will be plain colour as per specification and direction of the Engineer in Charge. etc. complete						
	D	2	1.000		2.100	4.200	
					Total	4.200	Sqm
21	Supplying Fitting, fixing up fully glazed aluminium framed window (sliding type) made up aluminium section 9778 as window frame, section 4095, 4096 and 9777, 3994 as shutter frame with 5mm black glass as panel fitted with rubber beading including locking arrangement including all fitting including cost of all materials, all taxes, labour, T&P excluding cost of glass etc. complete as per direction of the Engineer-in-charge						
				Kg/Sqm			
	W	6	2.100	5.000	1.675	105.525	
	V	2	0.600	5.000	0.450	2.700	
					Total	108.225	kg
22	Priming one coat with wall cement primer (water bound) to make an even finished surface in all floors and heights to wall surface of approved make and shade including sand papering, applying putty wherever necessary & cost of scaffolding, staging charges with cost, conveyance, taxes of all materials, cost of all labour,labour cess T&P etc. complete as per the direction of the Engineer-in-charge.						
	External wall	1	75.060	area		75.060	



	Internal wall	1	59.940	area		59.940	
	Ceiling	1	20.314	area		20.314	
					Total	155.314	Sqm
23	Painting two coats with approved anti-fungal weather seal paints (ISI) of approved colour, shade on wall surface over a coat of wall primer(ISI) water bound including sand papering, polishing the surface, cost, conveyances of all materials and cost of all labour,labour cess with T&P etc, complete as per specification & direction of Engineer-in-charge.						
	External wall	1	75.060	area		75.060	
					Total	75.060	Sqm
24	Finishing plastered surfaces of walls with cement based wall putty (Water based) of approved make and finishing the surface smooth and even by sand papering to receive painting in walls, at all heights with staging wherever necessary with cost, conveyance, taxes of all materials, cost of all labour,labourcess, all T&P etc. required for the work complete in all respect as per the direction of the Engineer-in-charge.						
	External wall	1	75.060	area		75.060	
	Internal wall	1	59.940	area		59.940	
	Ceiling	1	20.314	area		20.314	
					Total	155.314	Sqm
25	Painting two coats with approved distempering paint over a coat of wall primer of make Dulux / Berger / Asian to inside surface of walls finished with Acrylic Wall putty (water based) of make (Birla / JK) and finished smooth & even surface to receive painting using roller to the final coat including cost of scaffolding staging charges with cost, conveyances, taxes of all materials, cost of labour, T&P required for the work etc. complete for all floors as per specification & direction of the Engineer-in-charge. Note :- Sample of Paint & Primer shall be approved before procurement and use.						
	Internal wall	1	59.940	area		59.940	
	Ceiling	1	20.314	area		20.314	
					Total	80.254	Sqm
26	Well dressed Bamboo Wall with two coat of Enamel paint including cost of all labour & materials etc.						
	Wall	2	5.500		3.050	33.550	
		4	5.000		3.050	61.000	
		4	5.380		3.050	65.636	
		2	1.800		1.000	3.600	
		4	1.500		1.000	6.000	
	Ceiling	4	7.600	3.650		110.960	
	Deduction:-						
	D	-2	1.000		2.100	-4.200	
	W	-6	2.100		1.675	-21.105	
					Total	255.441	Sqm
27	Providing fitting THACHED ROOF including all cost conveyance taxes etc. complete.						
		1	185.000		1.000	185.000	
					Total	185.000	Sqm

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 Berhampur Division

**COLLECTOR,**  
**GANJAM, CHATRAPUR.**

**ESTIMATE OF LANDSCAPING FOR CONSTRUCTION OF GHODAHADA  
ECO-RESORT ,BERHAMPUR,ODISHA.**

<b>LANDSCAPING</b>						
<b>Sl. No.</b>	<b>DSR-2020/ Nos (Horticulture &amp; landscaping)</b>	<b>Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	2.1	Surface dressing of the ground including removing Vegetation and making up undulations and in-equalities not exceeding 15 cms in depth/ height including disposal of rubbish lead upto 50m (at least 5m away from the dressed	Sqm	3050.00	20.87	63653.50
2	2.2	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment), 200mm thick.	Cum	1458.00	452.08	659132.64
3	2.3	Supplying and stacking sludge at site including royalty and carriage upto 5 km lead complete (sludge measured in stacks will be reduced by 8% for payment).	Cum	1694.00	257.70	436543.80
4	2.6	Uprooting weeds from the trenched area after 10 to 15 days of its flooding with water including disposal of uprooted vegetation, breaking clods and fine dressing the ground including all materials and labour complete as per direction of Engineer-In-Charge.	Sqm	3050.00	4.30	13115.00
5	2.33	Providing and laying Neelgiri/Mexican grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with tools wooden (Dhurmos) and than rolling the surface with light roller make the surface smoothen and light watering with sprinkler and maintenance for 30 days or more till the grass establish properly, as per direction of officer-in-charge.	Sqm	1458.00	187.99	274089.42
6	2.34	Providing & laying Selection no. 1 grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and than rolling the surface with light roller make the surface smoothen and light watering the same maintenance for 30 days or more till the grass establish properly,as per direction of officer in charge	Sqm	2800.00	76.72	214816.00
7		Provision of plantation all around the campus with suitable Plants and Shurbs where required including all material and labour charge.				
		Philodendron bipinnatifidum	Nos	160.00	130.00	20800.00
		Philodendron erubescens	Nos	160.00	130.00	20800.00
		Philodendron williamsii	Nos	160.00	130.00	20800.00
		Rhoeo spathacea (yellow)	Nos	160.00	60.00	9600.00
		Spathyphyllum cleveandii	Nos	160.00	50.00	8000.00
		Wedellia chinensis(10" DIA)	Nos	160.00	60.00	9600.00
		Provision of plantation all around the campus with suitable tress where required including all material and labour charge.				
		Araucaria bidwillii	Nos	200.00	150.00	30000.00
		Cinnamomum camphora	Nos	200.00	100.00	20000.00
		Cryptomeria japonica	Nos	200.00	150.00	30000.00
		Cupressus sempervirens	Nos	200.00	150.00	30000.00
		Filicium decipiens	Nos	200.00	100.00	20000.00
		Murraya exotica	Nos	200.00	100.00	20000.00
		Kathachampa	Nos	200.00	100.00	20000.00
		Thuja orientalis	Nos	200.00	100.00	20000.00
		Bougainvillea	Nos	200.00	50.00	10000.00
		Coleus blumei	Nos	200.00	110.00	22000.00

		Gardenia jasminoides	Nos	200.00	100.00	20000.00
		Hibiscus rosasinensis	Nos	200.00	120.00	24000.00
		Ixora singaporensis	Nos	200.00	100.00	20000.00
		Jasminum sambac	Nos	200.00	80.00	16000.00
		Raphis palm	Nos	200.00	100.00	20000.00
8	2.57	Plantation of Trees, Shrubs, and Hedge at site i/c watering and removal of unsaverieable material's as per direction of officer in charge (excluding cost of plant & water)	Nos	9215.00	6.67	61417.98
						<b>Total Rs. 2134368.3</b>
						<b>Say Rs. 2134368.0</b>

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 Berhampur Division

**COLLECTOR,**  
**SANAKHEMUNDI BLOCK**

LEAD STATEMENT OF GHODAIHADA, BERHAMPUR, GANJAM, ODISHA.

Description of Materials  
 Unit  
 Name of quarry  
 Lead  
 in feet  
 Cost of carriage  
 Royalty (A)  
 Add  
 charges (B)  
 Total  
 contribution  
 per unit  
 Total  
 Royalty  
 charges  
 Total  
 cost



00	20000.00
00	24000.00
00	20000.00
00	16000.00
00	20000.00
7	61417.98
Rs.	2134368.34
Rs.	2134368.00

**LEAD STATEMENT OF GHODAHADA, BERHAMPUR, GANJAM, ODISHA.**

Sl. No.	Description of Materials	Unit	Name of quarry	Lead in KM	Cost of carriage				Royalty (A)	Addl charge (B)	Total Contribution (C)= DMF 10%(A)+EM F 5%(A)	Total Royalty charges= (A+B+C)	Carriage + Total Royalty	Cost	Grand Total
					1st 5km	Extra carriage	Total Carriage	8							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1	Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm <sup>2</sup> with dimensional tolerance + 2 %	1000 Nos.	Purusottampur	65	864.10	1680.90	2545.00			0.00	0.00	2545.00	5142.55	7687.55	
2	40mm size C.B.H.G metal (Passing through 45mm sieve & retained on 26.5mm sieve)	Cum	Sundarpur	95	276.01	999.90	1275.91	130.00	100.00	19.50	249.50	1525.41	995.25	2520.66	
3	20mm size C.B.H.G chips (Minimum 65% passing through 19mm & retained on 13.2mm but whole should pass through 26.5mm sieve)	Cum	Sundarpur	95	276.01	999.90	1275.91	130.00	100.00	19.50	249.50	1525.41	1382.29	2907.70	
4	12mm size C.B.H.G chips (Minimum 65% passing through 13.2mm & retained on 9.50mm but whole should pass through 19mm sieve)	Cum	Sundarpur	95	276.01	999.90	1275.91	130.00	100.00	19.50	249.50	1525.41	1396.62	2922.03	
5	10mm size C.B.H.G chips (Minimum 65% passing through 9.5mm & retained on 6.30mm but whole should pass through 13.2mm sieve)	Cum	Sundarpur	95	276.01	999.90	1275.91	130.00	100.00	19.50	249.50	1525.41	1418.67	2944.08	
6	4.7mm size C.B.H.G chips (Passing through 6.7mm sieve & retained on 2.36mm sieve)	Cum	Sundarpur	95	276.01	999.90	1275.91	130.00	100.00	19.50	249.50	1525.41	850.20	2375.61	
7	Rough stone granite quarried	Cum	Sundarpur	95	276.01	999.90	1275.91	130.00	100.00	19.50	249.50	1525.41	291.96	1817.37	
8	Sand for mortar	Cum	Rusikullya	90	276.01	953.90	1229.91	35.00	125.00	5.25	165.25	1395.16	76.88	1472.04	
9	Sand for filling	Cum	Rusikullya	15	276.01	130.20	406.21	35.00	125.00	5.25	165.25	571.46	71.94	643.40	
10	Steel (July-2023) TATA, JINDAL, SAIL, SEL TIGER, SHYAM STEEL	MT	Local	35	247.87	356.70	604.57	0.00		0.00	0.00	604.57	67971.65	68576.22	
11	Cement	MT	Jagganathpur	35	247.87	356.70	604.57	0.00		0.00	0.00	604.57	4599.40	5203.97	
12	All types of Tiles	Sqm	Local	65	9.60	18.68	28.28	0.00		0.00	0.00	28.28			
13	Wood		Local	5	198.30	0.00	198.30			0.00	0.00				
	9.5 mm to 4.7mm @35%	Cum	Sundarpur	95	276.01	999.90	1275.91	130.00	100.00	19.50	249.50	1525.41	957.46	2482.87	
	4.7mm to 2.36mm @12.5%	Cum	Sundarpur	95	276.01	999.90	1275.91	35.00	100.00	5.25	140.25	1416.16	850.20	2266.36	
	Dust 2.36mm below @ 52.5%	Cum	Sundarpur	95	276.01	999.90	1275.91	35.00	100.00	5.25	140.25	1416.16	136.33	1552.49	

Certified that, the leads provided in the estimate are correct and minimum to the best of my knowledge.

*Shubh*

Technical Consultant  
B.E. in Civil Engg.  
District Project Co-ordinator  
Samagra Sikhya Ganjam,  
Sanakhemundi Block

*Samy*  
Asst. Conservator of Forests  
Berhampur Division

Steel rate to be changed											
					Diameter in mm	Weight in Kg/m	Length	Weight per Piece in Kg	Rate per piece for July Month 2023	Rate per Ton	
cement	0	598.96	/Qntl	8	0.395	12	4.740	389.00	82067.51	/ Ton	
	0	0.00	/Qntl	10	0.617	12	7.404	593.00	80091.84	/ Ton	
	0	0.00	/Qntl	12	0.888	12	10.656	849.00	79673.42	/ Ton	
Total		598.96	/Qntl	16	1.578	12	18.936	1507.00	79583.86	/ Ton	
Average Rate		598.96	/Qntl	20	2.466	12	29.592	2356.00	79616.11	/ Ton	
		467.94	/Qntl						Total	401032.74	/ Ton
Deduct cost of empty cement bag		8.00							Average	80206.55	/ Ton
		459.94							Rate Excludin g 18% GST	<b>67971.7</b>	/ Ton

4599.40 /Ton

\*\*

AS PER NOTIFICATION NO-10466/W DT. 23-06-2023					
BRAND NAME OF STEEL	DIA OF BAR				
	8MM	10MM	12MM	16MM	20MM
TATA STEEL	379	578	816	1451	2268
JINDAL PANTHAR	379	578	816	1451	2268
SAIL	374	570	815	1447	2262
SEL TIGER	376	574	816	1450	2263
SHYAM STEEL	368	567	805	1433	2240
<b>Average Rate</b>	<b>375.2</b>	<b>573.4</b>	<b>813.6</b>	<b>1446.4</b>	<b>2260.2</b>

**ANALYSIS OF RATES**

Sl. No	Items of works	Unit	Quantity	Rate(Rs)	Amount(Rs)
1	Earth work in excavation in <b>hard soil or gravelly soil</b> including dressing and levelling the bed complete with all.				
	<b>Unit = Cum</b>				
	<b>(A/R 2006-Page No-2)</b>				
	<b>Taking output = 100 Cum</b>				
	<b>a) Labour</b>				
	Man Mulia unskilled	Each	21.50	345.00	7417.50
	Woman Mulia unskilled	Each	21.50	345.00	7417.50
				<b>(A)</b>	<b>14835.00</b>
	<b>b) Overhead charges @ 7.5% on (a)</b>		7.5%	14835.00	<b>1112.63</b>
	<b>c) Contractors Profit @ 7.5% on (a)</b>		7.5%	14835.00	<b>1112.63</b>
	Cost per 100 Cum = a+b+c+d				17060.26
	<b>d) Cost per 1 Cum</b>				170.60
	Add towards Labour Cess @ 1%		1%	170.60	1.71
					172.31
				<b>Say</b>	<b>172.30</b>
	<b>e) Add 20% for excavation</b>		20%	17060.26	<b>3412.05</b>
					<b>20472.31</b>
	Add towards Labour Cess @ 1%		1%	20472.31	204.72
					<b>20677.03</b>
	Rate per 1 Cum				206.77
				<b>Say</b>	<b>206.80</b>
2	Filling foundation and plinth with <b>excavated earth</b> complete with all.				
	For 1 Cum -2/3 rd of item-1(d)				113.74
	Add towards Labour Cess @ 1%		1%	113.74	1.14
				Total	<b>114.88</b>
				<b>Say</b>	<b>114.90</b>
	Filling of Excavated Earth to proper thickness slope grade and rolling with PRR at OMC including cost of all charges and complete.				
	For 1 Cum -2/3 rd of item-1(d)				113.74
	Hire & running charges of P.R.R		339.00 x8/425		<b>6.38</b>
	Watering		1.28/100 x1380.00		<b>17.66</b>
					<b>137.79</b>
			01-Jan		
3	<b>Sand filling</b> as per approved drawing and technical specifications as per Section 2100 of MoRT&H Specifications for Road & Bridge works (4th Revision).				
	<b>Unit = Cum</b>				
	<b>(A/R 2006-Page No-8 item-15)</b>				
	<b>Taking output = 100 Cum</b>				
	<b>a) Labour</b>				
	Man Mulia	Each	12.36	345.00	4264.20

				<b>4264.20</b>
d) Cost of sand	Cum	100.00	71.94	7194.00
				11458.20
b) Overhead charges @ 7.5% on (a)		7.5%	11458.20	<b>859.37</b>
c) Contractor's Profit @ 7.5% on (a)		7.5%	11458.20	<b>859.37</b>
Cost per 100 Cum = a+b+c				13176.94
Rate per Cum = (a+b+c)/100				131.77
				<b>131.77</b>
d) carriage & royalty of sand	Cum	1.00	571.46	571.46
				703.23
Add towards Labour Cess @ 1%		1%	703.23	7.03
				<b>710.26</b>
			<b>Say</b>	<b>710.30</b>

- 4 Plain cement concrete (1:3:6) nominal mix in foundation as per Drawing and Technical Specification

Unit = Cum (A/R 2006-Page No-43 item-3)

Taking output = 1 cum

a) Materials

40mm size H.G.C.B metal	Cum	0.96	19.50	18.72
Sand (screened & washed)	Cum	0.48	5.25	2.52
Cement	Qntl	2.29	0.00	0.00
				<b>21.24</b>

b) Labour

Mason 2nd class	Each	0.18	435.00	78.30
Man Mulia	Each	2.50	345.00	862.50
Woman Mulia	Each	1.40	345.00	483.00
				<b>1423.80</b>

c) Overhead charges @ 7.5% on (a+b)

7.5% 1445.04 **108.38**

d) Contracor's Profit @ 7.5% on (a+b)

7.5% 1445.04 **108.38**

e) Carriage & Royalty

40mm size H.G.C.B metal	Cum	0.96	100.00	96.00
Sand (screened & washed)	Cum	0.48	125.00	60.00
Cement	Qntl	2.29	0.00	0.00
				<b>156.00</b>

Rate per Cum = a+b+c+d+e

1817.80

Add towards Labour Cess @ 1%

1% 1817.80 18.18

**1835.98**

**Say 1836.00**

- 5 Plain cement concrete (1:4:8) nominal mix in foundation as per Drawing and Technical Specification

Unit = Cum (A/R 2006-Page No-43 item-4)

Taking output = 1 cum

**a) Materials**

40mm size H.G.C.B metal	Cum	0.96	995.25	955.44
Sand (screened & washed)	Cum	0.48	76.88	36.90
Cement	Qntl	1.72	459.94	791.10
				<u>1783.44</u>

**b) Labour**

Mason 2nd class	Each	0.18	435.00	78.30
Man Mulia	Each	2.50	345.00	862.50
Woman Mulia	Each	1.40	345.00	483.00
				<u>1423.80</u>

**c) Overhead charges @ 7.5% on (a+b)**

7.5% 3207.24 **240.54**

**d) Contracor's Profit @ 7.5% on (a+b)**

7.5% 3207.24 **240.54**

**e) Carriage & Royalty**

40mm size H.G.C.B metal	Cum	0.96	1525.41	1464.39
Sand (screened & washed)	Cum	0.48	1395.16	669.68
Cement	Qntl	1.72	60.46	103.99
				<u>2238.06</u>

**Rate per Cum = a+b+c+d+e**

5926.38

Add towards Labour Cess @ 1%

1% 5926.38 59.26

5985.64

**Say 5985.60**

- 6 Plain cement concrete (1:2:4) nominal mix as per Drawing and Technical Specification

Unit = Cum (A/R 2006-Page No-44 item-7)

Taking output = 1 cum

**a) Materials**

12mm size H.G.C.B chips	Cum	0.90	1396.62	1256.96
Sand (screened & washed)	Cum	0.45	76.88	34.60
Cement	Qntl	3.23	459.94	1485.61
				<u>2777.17</u>

**b) Labour**

Mason 2nd class	Each	0.68	435.00	295.80
Man Mulia	Each	3.20	345.00	1104.00
Woman Mulia	Each	1.40	345.00	483.00
				<u>1882.80</u>

**c) Overhead charges @ 7.5% on (a+b)**

7.5% 4659.97 **349.50**

**d) Contracor's Profit @ 7.5% on (a+b)**

7.5% 4659.97 **349.50**

**e) Carriage & Royalty**

12mm size H.G.C.B chips	Cum	0.90	1525.41	1372.87
Sand (screened & washed)	Cum	0.45	1395.16	627.82
Cement	Qntl	3.23	60.46	195.28
				<u>2195.97</u>



<b>Rate per Cum = a+b+c+d+e</b>				7554.94
Add towards Labour Cess @ 1%	1%	7554.94		75.55
				<b>7630.49</b>
		<b>Say</b>		<b>7630.50</b>

- 5 **Fly ash Brick** Masonry in Cement Mortar (1:4) using clamp burnt bricks (25 Cm. x 12Cm. x 8Cm.) in foundation and plinth.

**Unit = Cum (A/R 2006-Page No-71 item-2)**

**Taking output = 1 cum**

**a) Materials**

Bricks	1000	350.00	5142.55	1799.89
Sand (screened & washed)	Cum	0.28	76.88	21.53
Cement	Qntl	1.00	459.94	459.94
				<b>2281.36</b>

**b) Labour**

Mason Special	Each	0.35	495.00	173.25
Mason 2nd class	Each	1.05	435.00	456.75
Man Mulia	Each	1.55	345.00	534.75
Woman Mulia	Each	1.41	345.00	486.45
				<b>1651.20</b>

**c) Overhead charges @ 7.5% on (a+b)**

7.5% 3932.56 **294.94**

**d) Contracor's Profit @ 7.5% on (a+b)**

7.5% 3932.56 **294.94**

**e) Carriage & Royalty**

Bricks	1000	350.00	2545.00	890.75
Sand (screened & washed)	Cum	0.28	1395.16	390.64
Cement	Qntl	1.00	60.46	60.46
				<b>1341.85</b>

**Rate per Cum = a+b+c+d+e**

				5864.29
Add towards Labour Cess @ 1%	1%	5864.29		58.64
				<b>5922.93</b>
		<b>Say</b>		<b>5922.90</b>

**(A) For Superstructure Brick(1:4)**

Rate as above				5922.93
Add extra towards Labour & scaffolding charges				33.00
Overhead Charges on extra labour	7.5%	33.00		2.48
Contractor's Profit	7.5%	33.00		2.48
Add towards extra Labour Cess @ 1%	1%	37.96		0.38
		5960.89		5961.27
			<b>Say</b>	<b>5961.30</b>

**(B) For First Floor Brick(1:4)**

Rate as above				5961.27
Add extra Labour	15%	1651.20		247.68
Overhead Charges on extra labour	7.5%	247.68		18.58
Contractor's Profit	7.5%	247.68		18.58

Add towards extra Labour Cess @ 1%	1%	284.84	2.85
			<u>6248.96</u>
		<b>Say</b>	<b>6249.00</b>
<b>(C) For Second Floor Brick(1:4)</b>			
Rate as above			6248.96
Add extra Labour	15%	1898.88	284.83
Overhead Charges on extra labour	7.5%	284.83	21.36
Contractor's Profit	7.5%	284.83	21.36
Add towards extra Labour Cess @ 1%	1%	327.55	3.28
			<u>6579.79</u>
		<b>Say</b>	<b>6579.80</b>
<b>(D) For Third Floor Brick(1:4)</b>			
Rate as above			6579.79
Add extra Labour	15%	2183.71	327.56
Overhead Charges on extra labour	7.5%	327.56	24.57
Contractor's Profit	7.5%	327.56	24.57
Add towards extra Labour Cess @ 1%	1%	376.70	3.77
			<u>6960.26</u>
		<b>Say</b>	<b>6960.30</b>
<b>(E) For Fourth Floor Brick(1:4)</b>			
Rate as above			6960.26
Add extra Labour	15%	2511.27	376.69
Overhead Charges on extra labour	7.5%	376.69	28.25
Contractor's Profit	7.5%	376.69	28.25
Add towards extra Labour Cess @ 1%	1%	433.19	4.33
			<u>7397.78</u>
		<b>Say</b>	<b>7397.80</b>
<b>(F) For Fifth Floor Brick(1:4)</b>			
Rate as above			7397.78
Add extra Labour	15%	2887.96	433.19
Overhead Charges on extra labour	7.5%	433.19	32.49
Contractor's Profit	7.5%	433.19	32.49
Add towards extra Labour Cess @ 1%	1%	498.17	4.98
			<u>7900.93</u>
		<b>Say</b>	<b>7900.90</b>
<b>(G) For sixth Floor Brick(1:4)</b>			
Rate as above			7900.93
Add extra Labour	15%	3321.15	498.17
Overhead Charges on extra labour	7.5%	498.17	37.36
Contractor's Profit	7.5%	498.17	37.36
Add towards extra Labour Cess @ 1%	1%	572.89	5.73
			<u>8479.55</u>
		<b>Say</b>	<b>8479.60</b>
<b>(H) For Seventh Floor Brick(1:4)</b>			
Rate as above			8479.55
Add extra Labour	15%	3819.32	572.90

Overhead Charges on extra labour	7.5%	572.90	42.97
Contractor's Profit	7.5%	572.90	42.97
Add towards extra Labour Cess @ 1%	1%	658.84	6.59
			<u>9144.98</u>
		<b>Say</b>	<b>9145.00</b>

**6 Fly ash Brick Masonry in Cement Mortar (1:6) using bricks of size (25 Cm. x 12 Cm. x 8Cm.) in foundation and plinth**

**Unit = Cum (A/R 2006-Page No-71 item-3)**

**Taking output = 1 cum**

**a) Materials**

Bricks	1000	350.00	5142.55	1799.89
Sand (screened & washed)	Cum	0.28	76.88	21.53
Cement	Qntl	0.672	459.94	309.08
				<u>2130.50</u>

**b) Labour**

Mason Special	Each	0.35	495.00	173.25
Mason 2nd class	Each	1.05	435.00	456.75
Man Mulia	Each	1.55	345.00	534.75
Woman Mulia	Each	1.41	345.00	486.45
				<u>1651.20</u>

**c) Overhead charges @ 7.5% on (a+b)**

7.5% 3781.70 **283.63**

**d) Contracor's Profit @ 7.5% on (a+b)**

7.5% 3781.70 **283.63**

**e) Carriage & Royalty**

Bricks	1000	350	2545.00	890.75
Sand (screened & washed)	Cum	0.28	1395.16	390.64
Cement	Qntl	0.672	60.46	40.63
				<u>1322.02</u>

**Rate per Cum = a+b+c+d+e**

5670.98

Add towards Labour Cess @ 1%

1% 5670.98 56.71

5727.69

**Say 5727.70**

**(A) For Superstructure Brick(1:6)**

Rate as above				5727.69
Add extra towards Labour & scaffolding charges				33.00
Overhead Charges on extra labour	7.5%	33.00	2.48	
Contractor's Profit	7.5%	33.00	2.48	
Add towards extra Labour Cess @ 1%	1%	37.96	0.38	
		5765.65		<u>5766.03</u>
				<b>Say 5766.00</b>

**(B) For First Floor Brick(1:6)**

Rate as above				5766.03
Add extra Labour	15%	1651.20	247.68	
Overhead Charges on extra labour	7.5%	247.68	18.58	
Contractor's Profit	7.5%	247.68	18.58	

Add towards extra Labour Cess @ 1%	1%	284.84	2.85
			<u>6053.72</u>
		<b>Say</b>	<b>6053.70</b>
<b>(C) For Second Floor Brick(1:6)</b>			
Rate as above			6053.72
Add extra Labour	15%	1898.88	284.83
Overhead Charges on extra labour	7.5%	284.83	21.36
Contractor's Profit	7.5%	284.83	21.36
Add towards extra Labour Cess @ 1%	1%	327.55	3.28
			<u>6384.55</u>
		<b>Say</b>	<b>6384.60</b>
<b>(D) For Third Floor Brick(1:6)</b>			
Rate as above			6384.55
Add extra Labour	15%	2183.71	327.56
Overhead Charges on extra labour	7.5%	327.56	24.57
Contractor's Profit	7.5%	327.56	24.57
Add towards extra Labour Cess @ 1%	1%	376.70	3.77
			<u>6765.02</u>
		<b>Say</b>	<b>6765.00</b>
<b>(E) For Fourth Floor Brick(1:6)</b>			
Rate as above			6765.02
Add extra Labour	15%	2511.27	376.69
Overhead Charges on extra labour	7.5%	376.69	28.25
Contractor's Profit	7.5%	376.69	28.25
Add towards extra Labour Cess @ 1%	1%	433.19	4.33
			<u>7202.54</u>
		<b>Say</b>	<b>7202.50</b>
<b>(F) For Fifth Floor Brick(1:6)</b>			
Rate as above			7202.54
Add extra Labour	15%	2887.96	433.19
Overhead Charges on extra labour	7.5%	433.19	32.49
Contractor's Profit	7.5%	433.19	32.49
Add towards extra Labour Cess @ 1%	1%	498.17	4.98
			<u>7705.69</u>
		<b>Say</b>	<b>7705.70</b>
<b>(G) For Sixth Floor Brick(1:6)</b>			
Rate as above			7705.69
Add extra Labour	15%	3321.15	498.17
Overhead Charges on extra labour	7.5%	498.17	37.36
Contractor's Profit	7.5%	498.17	37.36
Add towards extra Labour Cess @ 1%	1%	572.89	5.73
			<u>8284.31</u>
		<b>Say</b>	<b>8284.30</b>
<b>(H) For Seventh Floor Brick(1:6)</b>			
Rate as above			8284.31
Add extra Labour	15%	3819.32	572.90

Overhead Charges on extra labour	7.5%	572.90	42.97
Contractor's Profit	7.5%	572.90	42.97
Add towards extra Labour Cess @ 1%	1%	658.84	6.59
			<u>8949.74</u>
		<b>Say</b>	<b>8949.70</b>

- 7 Rigid and smooth centering & shuttering for R.C.C. works including false works and dismantling them after casting including cost of materials complete **(Gr Floor)**

i) R.C.C. floor and roof slabs, landings, balconies, projecting sun shades and chajjas upto 4.3m height

**Unit = sqm (A/R 2006-Page No-53 item-10)**

**Taking output = 9 sqm**

**a) Materials**

Non sal wood scantling	Cum	0.112	58374.49	6537.94
Planks 38mm	Cum	0.340	58374.49	19847.33
120mm dia sal bullah	Mtr	56.00	51.87	2904.72
Carriage of wood @ 161.72/1.25 cum	Cum	1.142	198.30	226.45
				<u>29516.44</u>

Coinsidering 10 times use of the materials, for use once

For 1 time cost **2951.64**

**b) Labour**

Carpenter 2nd class	Each	2.75	435.00	1196.25
Semi skilled Mulia	Each	2.75	385.00	1058.75
				<u>2255.00</u>

**c) Overhead charges @ 7.5% on (a+b)**

7.5% 5206.64 **390.50**

**d) Contracor's Profit @ 7.5% on (a+b)**

7.5% 5206.64 **390.50**

**Rate per 9Sqm = a+b+c+d**

**5987.64**

**Rate per Sqm = (a+b+c+d)/9**

**665.29**

Add towards Labour Cess @ 1%

1% 665.29 **6.65**

**671.94**

**Say 671.90**

**(A) For First Floor**

Rate as above				671.94
Add extra	20%	671.94		134.39
				<u>806.33</u>
			<b>Say</b>	<b>806.30</b>

**(B) For Second Floor**

Rate as above				806.33
Add extra	20%	806.33		161.27
				<u>967.60</u>
			<b>Say</b>	<b>967.60</b>

**(C) For Third Floor**

Rate as above				967.60
Add extra	20%	967.60		193.52
				<u>1161.12</u>

			<b>Say</b>	<b>1161.10</b>
<b>ii) R.C.C. stairs excluding landing but including railing</b>				
<b>Unit = sqm (A/R 2006-Page No-53 item-10)</b>				
<b>Taking output = 5 sqm</b>				
<b>a) Materials</b>				
Non sal wood 38mm thick planks	Cum	0.228	58374.49	13309.38
Non sal wood scantling	Cum	0.039	58374.49	2276.61
120mm dia non sal bullah	Mtr	6.500	41.81	271.77
Carriage of wood @ 169.00/1.25 cum	Cum	0.350	198.30	69.40
				<b>15927.16</b>
Coinsidering 10 times use of the materials, for use once				
		For 1 time cost		<b>1592.72</b>
<b>b) Labour</b>				
Carpenter 2nd class	Each	2.75	435.00	1196.25
Semi skilled Muliua	Each	2.75	385.00	1058.75
				<b>2255.00</b>
<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	3847.72	<b>288.58</b>
<b>d) Contracor's Profit @ 7.5% on (a+b)</b>		7.5%	3847.72	<b>288.58</b>
<b>Rate per 5Sqm = a+b+c+d</b>				<b>4424.88</b>
<b>Rate per Sqm = (a+b+c+d)/5</b>				<b>884.98</b>
Add towards Labour Cess @ 1%		1%	884.98	8.85
				<b>893.83</b>
			<b>Say</b>	<b>893.80</b>
<b>(A) For First Floor</b>				
Rate as above				893.83
Add extra		20%	893.83	178.77
				1072.60
			<b>Say</b>	<b>1072.60</b>
<b>(B) For Second Floor</b>				
Rate as above				1072.60
Add extra		20%	1072.60	214.52
				1287.12
			<b>Say</b>	<b>1287.10</b>
<b>(C) For Third Floor</b>				
Rate as above				1287.12
Add extra		20%	1287.12	257.42
				1544.54
			<b>Say</b>	<b>1544.50</b>

iii) R.C.C. foundation , plinth band and footings bases of columns, mass concrete pre-cast slabs etc

**Unit = sqm (A/R 2006-Page No-54 item-10)**

**Taking output = 10 sqm**

**a) Materials**

25mm thick non sal planks	Cum	0.267	58374.49	15585.99
Non-sal bullah 80mm dia for strutting	Mtr	12.600	30.81	388.21

Carriage of wood @ 169.00/1.25 cum	Cum	0.3284	198.30	65.12
				<b>16039.32</b>
Coinsidering 10 times use of the materials, for use once			For 1 time cost	<b>1603.93</b>
<b>b) Labour</b>				
Carpenter 2nd class	Each	0.50	435.00	217.50
Semi skilled Muliua	Each	0.50	385.00	192.50
				<b>410.00</b>
<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	2013.93	<b>151.04</b>
<b>d) Contracor's Profit @ 7.5% on (a+b)</b>		7.5%	2013.93	<b>151.04</b>
<b>Rate per 10Sqm = a+b+c+d</b>				<b>2316.01</b>
<b>Rate per Sqm = (a+b+c+d)/10</b>				<b>231.60</b>
Add towards Labour Cess @ 1%		1%	231.60	2.32
				<b>233.92</b>
			<b>Say</b>	<b>233.90</b>
<b>iv) R.C.C. beams, column, grider and bressmer, etc.</b>				
<b>Unit = sqm (A/R 2006-Page No-54 item-10)</b>				
<b>Taking output = 4.2 sqm</b>				
<b>a) Materials</b>				
38mm thick non sal planks	Cum	0.218	58374.49	12725.64
120mm dia sal bullah	Mtr	15.200	51.87	788.42
80mm dia sal bullah for bracing	Mtr	8.000	51.87	414.96
Carriage of wood @ 169.00/1.25 cum	Cum	0.456	129.38	59.00
				<b>13988.02</b>
Coinsidering 10 times use of the materials, for use once			For 1 time cost	<b>1398.80</b>
<b>b) Labour</b>				
Carpenter 2nd class	Each	2.75	435.00	1196.25
Semi skilled Muliua	Each	2.75	385.00	1058.75
				<b>2255.00</b>
<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	3653.80	<b>274.04</b>
<b>d) Contracor's Profit @ 7.5% on (a+b)</b>		7.5%	3653.80	<b>274.04</b>
<b>Rate per 4.2Sqm = a+b+c+d</b>				<b>4201.88</b>
<b>Rate per Sqm = (a+b+c+d)/4.2</b>				<b>1000.45</b>
Add towards Labour Cess @ 1%		1%	1000.45	10.00
				<b>1010.45</b>
			<b>Say</b>	<b>1010.50</b>
<b>(A) For First Floor</b>				
Rate as above				1010.45
Add extra		20%	1010.45	202.09
				<b>1212.54</b>
			<b>Say</b>	<b>1212.50</b>
<b>(B) For Second Floor</b>				
Rate as above				1212.54
Add extra		20%	1212.54	242.51
				<b>1455.05</b>
			<b>Say</b>	<b>1455.10</b>
<b>(C) For Third Floor</b>				

Rate as above			1455.05
Add extra	20%	1455.05	<u>291.01</u>
			1746.06
		<b>Say</b>	<b>1746.10</b>

**v) R.C.C. Lintels (A/R 2006-Page No-54 item-10)**

**Unit = sqm**

**Taking output = 7.8 sqm**

**a) Materials**

38mm thick non sal planks	Cum	0.413	58374.49	24108.66
120mm dia non sal bullah	Mtr	21.000	41.81	878.01
Carriage of wood @ 169.00/1.25 cum	Cum	0.689	198.30	<u>136.63</u>
				<b>25123.30</b>

Coinsidering 10 times use of the materials, for use once

For 1 time cost **2512.33**

**b) Labour**

Carpenter 2nd class	Each	1.25	435.00	543.75
Semi skilled Mulia	Each	1.25	385.00	<u>481.25</u>
				<b>1025.00</b>

**c) Overhead charges @ 7.5% on (a+b)**

7.5% 3537.33 **265.30**

**d) Contracor's Profit @ 7.5% on (a+b)**

7.5% 3537.33 **265.30**

**Rate per 7.8Sqm = a+b+c+d**

**4067.93**

**Rate per Sqm = (a+b+c+d)/7.8**

**521.53**

Add towards Labour Cess @ 1%

1% 521.53 5.22

**526.75**

**Say 526.80**

**(A) For First Floor**

Rate as above			526.75
Add extra	20%	526.75	<u>105.35</u>
			632.10
		<b>Say</b>	<b>632.10</b>

**(B) For Second Floor**

Rate as above			632.10
Add extra	20%	632.10	<u>126.42</u>
			758.52
		<b>Say</b>	<b>758.50</b>

**(C) For Third Floor**

Rate as above			758.52
Add extra	20%	758.52	<u>151.70</u>
			910.22
		<b>Say</b>	<b>910.20</b>

**8 R.C.C. work of M-25 grade with 20mm and down grade black hard granite (crusher broken) stone chips including hoisting and laying**

**Unit = cum (A/R 2006-Page No-50 item-4)**



**Taking output = 15 cum****a) Materials**

20mm size H.G.C.B chips	Cum	8.10	1382.29	11196.55
10mm size H.G.C.B chips	Cum	5.40	1418.67	7660.82
Sand (screened & washed)	Cum	6.75	76.88	518.94
Cement	MT	6.05	4599.40	27826.37
				<b>47202.68</b>

**b) Labour**

Mate	Each	0.86	385.00	331.10
Mason 2nd class	Each	1.50	435.00	652.50
Woman Mulia	Each	20.00	345.00	6900.00
				<b>7883.60</b>

**c) Machinery**

Concrete Mixer (cap. 0.40/0.28 cum)	Hour	6.00	229.55	1377.30
Generator 33 kva	Hour	6.00	700.00	4200.00
				<b>5577.30</b>

**d) Overhead charges @ 7.5% on (a+b)**

7.5%	60663.58	<b>4549.77</b>
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**e) Contracor's Profit @ 7.5% on (a+b)**

7.5%	60663.58	<b>4549.77</b>
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**f) Carriage & Royalty**

20mm size H.G.C.B chips	Cum	8.10	1525.41	12355.82
10mm size H.G.C.B chips	Cum	5.40	1525.41	8237.21
Sand (screened & washed)	Cum	6.75	1395.16	9417.33
Cement	MT	6.05	60.46	365.76
				<b>30376.12</b>

**Rate per 15 Cum = a+b+c+d+e+f**

100139.24

**Rate per Cum = (a+b+c+d+e+f)/15**

		6675.95
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Add towards Labour Cess @ 1%

1%	6675.95	66.76
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**6742.71**

**Say 6742.70**

**(A) For First Floor R.C.C M-25**

Rate as above			6742.71
Add extra Labour	15%	525.57	78.84
Overhead Charges on extra labour	7.5%	78.84	5.91
Contractor's Profit	7.5%	78.84	5.91
Add towards extra Labour Cess @ 1%	1%	90.66	0.91
			<b>6834.28</b>
			<b>Say 6834.30</b>

**(B) For Second Floor R.C.C M-25**

Rate as above			6834.28
Add extra Labour	15%	604.41	90.66
Overhead Charges on extra labour	7.5%	90.66	6.80
Contractor's Profit	7.5%	90.66	6.80
Add towards extra Labour Cess @ 1%	1%	104.26	1.04
			<b>6939.58</b>
			<b>Say 6939.60</b>

**(C) For Third Floor R.C.C M-25**

Rate as above			6939.58
Add extra Labour	15%	695.07	104.26
Overhead Charges on extra labour	7.5%	104.26	7.82
Contractor's Profit	7.5%	104.26	7.82
Add towards extra Labour Cess @ 1%	1%	119.90	1.20
			7060.68
		<b>Say</b>	<b>7060.70</b>
<b>(D) For Fourth Floor R.C.C M-25</b>			
Rate as above			7060.68
Add extra Labour	15%	799.33	119.90
Overhead Charges on extra labour	7.5%	119.90	8.99
Contractor's Profit	7.5%	119.90	8.99
Add towards extra Labour Cess @ 1%	1%	137.88	1.38
			7199.94
		<b>Say</b>	<b>7199.90</b>
<b>(E) For Fifth Floor R.C.C M-25</b>			
Rate as above			7199.94
Add extra Labour	15%	919.23	137.88
Overhead Charges on extra labour	7.5%	137.88	10.34
Contractor's Profit	7.5%	137.88	10.34
Add towards extra Labour Cess @ 1%	1%	158.56	1.59
			7360.09
		<b>Say</b>	<b>7360.10</b>
<b>(F) For Sixth Floor R.C.C M-25</b>			
Rate as above			7360.09
Add extra Labour	15%	1057.11	158.57
Overhead Charges on extra labour	7.5%	158.57	11.89
Contractor's Profit	7.5%	158.57	11.89
Add towards extra Labour Cess @ 1%	1%	182.35	1.82
			7544.26
		<b>Say</b>	<b>7544.30</b>
<b>(G) For Seventh Floor R.C.C M-25</b>			
Rate as above			7544.26
Add extra Labour	15%	1215.68	182.35
Overhead Charges on extra labour	7.5%	182.35	13.68
Contractor's Profit	7.5%	182.35	13.68
Add towards extra Labour Cess @ 1%	1%	209.71	2.10
			7756.07
		<b>Say</b>	<b>7756.10</b>
<b>50 Single Under reamed Bored Compaction Pile foundation with R.C.C work M-20</b>			
single under ream pile			
375 mm dia and 6.0metre long			
per 1 pile			
excavation of bore hole ( assuming two pits can be constructed per day			
Boring Mistry ( special )	nos	2.00	495.00
			990.00

150 Winch operator	nos	0.50	495.00	247.50
Hire & Running charge of Tripod	day	0.50	600.00	0.00
Bentonite power	bag	2.50	3059.33	7648.31
				8885.81

**d) Over head charges**

**d) Overhead charges @ 7.5% on (a+b)** 7.5% 8885.81 666.44

**e) Contracor's Profit @ 7.5% on (a+b)** 7.5% 8885.81 666.44

Total **10218.69**

For 375mm dia and 6.0mt long pile

Per 1 pile

Add Cost of R.C.C M20 quantity

Volume

$$\frac{3.14 \times (0.375 \times 0.375) \times 6.0}{4} + 4.13(0.375 \times 0.375 \times 0.375)$$

4

= 0.88 Cum

Add extra 20% concrete for bored compaction pile as per I.S 2911/1980

$$0.88 \times 1.2 = 1.06 \text{ Cum}$$

RCC M20 Rate as per basic rate

Cum 1.06 6675.95 7076.51

Extra Cement wth 20% extra for bored compaction

$$0.284 \times 1.2 = 0.341 \text{ qtl Rs}$$

Add cost of extra Cement wth 20% extra for bored compaction

Qntl 0.341 0.00 0.00

**For 300mm dia and 6.0mt long pile**

Per 1 pile

9196.82

Excavation of bore hole - Take 90% of rate in above item

90% 10218.69

Add Cost of R.C.C M20 quantity

=

Volume

$$\frac{3.14 \times (0.30 \times 0.30) \times 6.0}{4} + 4.13(0.30 \times 0.30 \times 0.30)$$

4

= 0.535 Cum

Add extra 20% concrete for bored compaction pile as per I.S 2911/1980

$$0.535 \times 1.2 = 0.642 \text{ Cum}$$

RCC M20 Rate as per basic rate

Cum 0.642 6675.95 4285.96

Extra Cement wth 20% extra for bored compaction

$$0.17288 \times 1.2 = 0.20746 \text{ qtl}$$

Add cost of extra Cement wth 20% extra for bored compaction

Qntl 0.20746 0.00 0.00

Tota Cost per 1 pile

13482.78

Add Labour Cess 1%

1.0% 13482.78 134.83

**Cost of 1 no pile**

13617.61

**Rate per 1.00m Up to 6.00m(300mm dia)**

2269.6

**For each additional depth 0.50mt beyond initial depth 6.0mt Add extra to the Rate**

Excavation of bore hole take 6% of Labour		6%	10218.69	613.12
Add extra 20% concrete for bored compaction pile as per I.S 2911/1980	0.035	x	1.2	
	=	0.042	Cum	@
RCC M20 Rate as per basic rate	Cum	0.042	6675.95	280.39
Extra Cement wth 20% extra for bored compaction	0.0113	x	1.2	
	=	0.0136	qtl	
Add cost of extra Cement wth 20% extra for bored compaction	Qntl	0.0136	0.00	0.00
				893.51
Add Labour Cess 1%		1.0%	893.51	8.94
				902.45
<b>Rate per 1.00m Beyond 6.00m(300mm dia)</b>		2	902.45	1804.90

- 9 Double Under reamed Bored Compaction Pile** foundation with R.C.C. work of M-25 grade with 20mm and down grade black hard granite (crusher broken) stone chips including hoisting and laying including cost of boring but excluding cost of M.S/Tor steel and labour charges for cutting bending & binding of steel .

single under ream pile

**(a) 375 mm dia and 7.5metre long**

per 1 pile

excavation of bore hole ( assuming two pits can be constructed per day

Boring Mistry ( special )	nos	2.00	495.00	990.00
150 Winch operetor	nos	0.50	495.00	247.50
Hire & Running charge of Tripod	day	0.50	450.00	225.00
Bentonite powder	bag	2.50	3059.33	7648.31
				9110.81

**Hire charges of Machineris**

a)7.5 KW motor attached with winch set,driving shaft and monkey	Hour	1.00	115.00	115.00
b)Diesel Generator 15KVA 3 phase	Hour	1.00	269.00	269.00
				384.00

<b>Overhead charges @ 7.5% on (a+b)</b>		7.5%	9494.81	712.11
<b>Contracor's Profit @ 7.5% on (a+b)</b>		7.5%	9494.81	712.11
			<b>Total</b>	<b>10919.03</b>

For 375mm dia and 7.5mt long pile

Per 1 pile

Add Cost of R.C.C M25 quantity

Volume

As per A/R -2006 item-1 (a) P-209	=	1.049	Cum	
Add extra 20% concrete for bored compaction pile as per I.S 2911/1980	1.049	x	1.2	
	=	1.26	Cum	
RCC M25 (Rate considered as per A/R-2006)	Cum	1.26	6742.70	8495.80

Extra Cement wth 20% extra for bored compaction	0.284	x	1.2	
	=		0.341	qtl
Add cost of extra Cement wth 20% extra for bored compaction(Rate considered as per A/R-2006)	Qntl		0.341	0.00

Total cost per pile 19414.83  
Say Rs 19414.80

**Rate per 1.00m Up to 7.50m(375mm dia)** 3235.8  
**Say 3235.80**

(i) **For each additional depth of 0.50mt beyond initial depth of 7.5mt add extra to the Rate**  
**Per 1 pile**

Excavation of bore hole take 6% of Labour			6%	10919.03	655.14
Add extra 20% concrete for bored compaction pile as per I.S 2911/1980	0.055	x	1.2		

= 0.066 Cum @  
RCC M25 Rate as per basic rate Cum 0.066 6742.70 445.02

Extra Cement wth 20% extra for bored compaction	0.0178	x	1.2		
	=		0.021	qtl	
Add cost of extra Cement wth 20% extra for bored compaction	Qntl		0.021	0.00	0.00

1100.16  
1100.16  
Say Rs 1100.20

**Rate per 1.00m Beyond 7.50m(375mm dia)** 2 1100.20 2200.40  
**Say 2200.40**

(ii) **For each less depth of 0.50mt from the initial depth of 6.0mt deduct from the Rate**

**Rate same as item No-1(a)(i) Rs 1100.20**

**For 300mm dia and 6.0mt long pile**

Per 1 pile					
Excavation of bore hole - Take 90% of rate in above item			90%	10919.03	9827.13

Add Cost of R.C.C M20 quantity	=				
Volume					
$\frac{3.14 \times (0.30 \times 0.30) \times 6.0}{4}$	+		4.13(0.30 \times 0.30 \times 0.30)		
	=		0.535	Cum	

Add extra 20% concrete for bored compaction pile as per I.S 2911/1980	0.535	x	1.2		
	=		0.642	Cum	
RCC M20 Rate as per basic rate	Cum		0.642	6742.70	4328.81

Extra Cement wth 20% extra for bored compaction	0.17288	x	1.2		
	=		0.20746	qtl	
Add cost of extra Cement wth 20% extra for bored compaction	Qntl		0.20746	0.00	0.00

Tota Cost per 1 pile				14155.94
Add Labour Cess 1%		1.0%	14155.94	141.56
<b>Cost of 1 no pile</b>				<b>14297.50</b>
<b>Rate per 1.00m Up to 6.00m(300mm dia)</b>				<b>2382.92</b>
			<b>Say</b>	<b>2382.90</b>
<b>For each additional depth / less depth 0.50mt beyond initial depth 6.0mt Add extra to the Rate</b>				
Excavation of bore hole take 6% of Labour		6%	10919.03	655.14
Add extra 20% concrete for bored compaction pile as per I.S 2911/1980	0.035	x	1.2	
	=	0.042	Cum	@
RCC M20 Rate as per basic rate	Cum	0.042	6742.70	283.19
Extra Cement wth 20% extra for bored compaction	0.0113	x	1.2	
	=	0.0136	qtl	
Add cost of extra Cement wth 20% extra for bored compaction	Qntl	0.0136	0.00	0.00
				938.33
Add Labour Cess 1%		1.0%	938.33	9.38
				947.71
Rate per 1.00m Beyond 6.00m(300mm dia)		2	947.71	1895.42
			Say	1895.40
Rate for 4m long 300mm dia pile				
Rate for each Pile	#####	-	3790.84	10506.66
<b>Rate per meter Pile for 4m long 300 mm dia</b>				<b>2626.67</b>
<b>Per 1 meter Pile</b>			<b>Say</b>	<b>2626.70</b>
<b>For 500mm dia and 6.0mt long pile</b>				
Per 1 pile				
Excavation of bore hole as per rate in above item				10919.03
Add 55% extra as per item 2 (d) P-213				6005.47
Add Cost of R.C.C M25 quantity	=			
Volume				
$\frac{3.14 \times (0.5 \times 0.5) \times 6.0}{4}$	+	4.13(0.50 \times 0.50 \times 0.50)		
	<b>1.1775</b>	+	<b>0.51625</b>	
		=	1.69375	Cum
Add extra 20% concrete for bored compaction pile as per I.S 2911/1980	1.69375	x	1.2	
	=	2.033	Cum	
RCC M20 Rate as per basic rate	Cum	2.033	6742.70	13707.91
10 %Extra Cement	0.82	Qntl		
Add cost of 10% extra Cement	Qntl	0.82	0.00	0.00
Tota Cost per 1 pile				30632.41
Add Labour Cess 1%		1.0%	30632.41	306.32
<b>Cost of 1 no pile</b>				<b>30938.73</b>
<b>Rate per 1.00m Up to 6.00m(500mm dia)</b>				<b>5156.45</b>
			<b>Say</b>	<b>5156.50</b>

**For each additional depth 0.50mt beyond initial depth 6.0mt Add extra to the Rate**

Excavation of bore hole take 5% of Labour		5%	16924.50	846.22
RCC M25 Rate	0.10			
Add extra 20% concrete for bored compaction pile as per I.S 2911/1980	0.10	x	1.2	
	=	0.118	Cum	@
RCC M25 Rate as per basic rate	Cum	0.118	6742.70	795.64
10 %Extra Cement	0.048			
Add cost of 10% extra Cement	Qntl	0.048	0.00	0.00
				1641.86
Add Labour Cess 1%		1.0%	1641.86	16.42
				1658.28
<b>Rate per 1.00m Beyond 6.00m(500mm dia)</b>		2	1658.28	3316.56
			<b>Say</b>	<b>3316.60</b>

- 9 R.C.C. work of M-25 grade with 20mm and down grade black hard granite (crusher broken) stone chips including hoisting and laying in **Column Footing**

**Unit = cum**

Rate as above				6742.71
Add towards Centering & Shuttering	Sqm	1.50	233.92	350.88
				7093.59
			<b>Say</b>	<b>7093.60</b>

- 10 R.C.C. work of M-25 grade with 20mm and down grade black hard granite (crusher broken) stone chips including hoisting and laying in **Column in Ground Floor**

**Unit = cum**

Rate as above				6742.71
Add towards Centering & Shuttering	Sqm	8.00	1010.45	8083.60
				14826.31
			<b>Say</b>	<b>14826.30</b>

**(A) For First Floor Column**

Rate as above				6834.28
Add towards Centering & Shuttering	Sqm	8.00	1212.54	9700.32
				16534.60
			<b>Say</b>	<b>16534.60</b>

**(B) For Second Floor Column**

Rate as above				6939.58
Add towards Centering & Shuttering	Sqm	8.00	1455.05	11640.40
				18579.98
			<b>Say</b>	<b>18580.00</b>

**(C) For Third Floor Column**

Rate as above				7060.68
---------------	--	--	--	---------

Add towards Centering & Shuttering	Sqm	8.00	1746.06	13968.48
				<u>21029.16</u>
			<b>Say</b>	<b>21029.20</b>
<b>(D) For Fourth Floor Column</b>				
Rate as above				7199.94
Add towards Centering & Shuttering	Sqm	8.00	2095.27	16762.16
				<u>23962.10</u>
			<b>Say</b>	<b>23962.10</b>
<b>(E) For Fifth Floor Column</b>				
Rate as above				7360.09
Add towards Centering & Shuttering	Sqm	8.00	2514.32	20114.56
				<u>27474.65</u>
			<b>Say</b>	<b>27474.70</b>
<b>(F) For Sixth Floor Column</b>				
Rate as above				7544.26
Add towards Centering & Shuttering	Sqm	8.00	3017.18	24137.44
				<u>31681.70</u>
			<b>Say</b>	<b>31681.70</b>
<b>(G) For Seventh Floor Column</b>				
Rate as above				7756.07
Add towards Centering & Shuttering	Sqm	8.00	3620.62	28964.96
				<u>36721.03</u>
			<b>Say</b>	<b>36721.00</b>
<b>11 R.C.C. work of M-25 grade with 20mm and down grade black hard granite (crusher broken) stone chips including hoisting and laying in <u>Beam in Ground Floor</u></b>				
<b>Unit = cum</b>				
Rate as above				6742.71
Add towards Centering & Shuttering	Sqm	8.00	1010.45	8083.60
				<u>14826.31</u>
			<b>Say</b>	<b>14826.30</b>
<b>(A) For First Floor Beam</b>				
Rate as above				6834.28
Add towards Centering & Shuttering	Sqm	8.00	1212.54	9700.32
				<u>16534.60</u>
			<b>Say</b>	<b>16534.60</b>
<b>(B) For Second Floor Beam</b>				
Rate as above				6939.58
Add towards Centering & Shuttering	Sqm	8.00	1455.05	11640.40
				<u>18579.98</u>
			<b>Say</b>	<b>18580.00</b>
<b>(C) For Third Floor Beam</b>				
Rate as above				7060.68
Add towards Centering & Shuttering	Sqm	8.00	1746.06	13968.48
				<u>21029.16</u>



				<b>Say</b>	<b>21029.20</b>
<b>(C) For Fourth Floor Beam</b>					
	Rate as above				7199.94
	Add towards Centering & Shuttering	Sqm	8.00	2095.27	16762.16
					<hr/> 23962.10
				<b>Say</b>	<b>23962.10</b>
<b>(C) For Fifth Floor Beam</b>					
	Rate as above				7360.09
	Add towards Centering & Shuttering	Sqm	8.00	2514.32	20114.56
					<hr/> 27474.65
				<b>Say</b>	<b>27474.70</b>
<b>(C) For Sixth Floor Beam</b>					
	Rate as above				7544.26
	Add towards Centering & Shuttering	Sqm	8.00	3017.18	24137.44
					<hr/> 31681.70
				<b>Say</b>	<b>31681.70</b>
<b>(C) For Seventh Floor Beam</b>					
	Rate as above				7756.07
	Add towards Centering & Shuttering	Sqm	8.00	3620.62	28964.96
					<hr/> 36721.03
				<b>Say</b>	<b>36721.00</b>
<b>12 R.C.C. work of M-25 grade with 20mm and down grade black hard granite (crusher broken) stone chips including hoisting and laying in Plinth Beam</b>					
	<b>Unit = cum</b>				
	Rate as above				6742.71
	Add towards Centering & Shuttering	Sqm	5.00	233.92	1169.60
					<hr/> 7912.31
				<b>Say</b>	<b>7912.30</b>
<b>13 R.C.C. work of M-25 grade with 20mm and down grade black hard granite (crusher broken) stone chips including hoisting and laying in Stair Case in Ground Floor</b>					
	<b>Unit = cum</b>				
	Rate as above				6742.71
	Add towards Centering & Shuttering	Sqm	9.00	893.83	8044.47
					<hr/> 14787.18
				<b>Say</b>	<b>14787.20</b>
<b>(A) For First Floor Stair Case</b>					
	Rate as above				6834.28
	Add towards Centering & Shuttering	Sqm	9.00	1072.60	9653.40
					<hr/> 16487.68
				<b>Say</b>	<b>16487.70</b>
<b>(B) For Second Floor Stair Case</b>					
	Rate as above				6939.58
	Add towards Centering & Shuttering	Sqm	9.00	1287.12	11584.08
					<hr/>

					18523.66
				<b>Say</b>	<b>18523.70</b>
<b>(C) For Third Floor Stair Case</b>					
Rate as above					7060.68
Add towards Centering & Shuttering	Sqm	9.00	1544.54		13900.86
					<u>20961.54</u>
				<b>Say</b>	<b>20961.50</b>
<b>14 R.C.C. work of M-25 grade with 20mm and down grade black hard granite (crusher broken) stone chips including hoisting and laying in Lintel in Ground Floor</b>					
<b>Unit = cum</b>					
Rate as above					6742.71
Add towards Centering & Shuttering	Sqm	14.00	526.75		7374.50
					<u>14117.21</u>
				<b>Say</b>	<b>14117.20</b>
<b>(A) For First Floor Lintel</b>					
Rate as above					6834.28
Add towards Centering & Shuttering	Sqm	14.00	632.10		8849.40
					<u>15683.68</u>
				<b>Say</b>	<b>15683.70</b>
<b>(B) For Second Floor Lintel</b>					
Rate as above					6939.58
Add towards Centering & Shuttering	Sqm	14.00	758.52		10619.28
					<u>17558.86</u>
				<b>Say</b>	<b>17558.90</b>
<b>(C) For Third Floor Lintel</b>					
Rate as above					7060.68
Add towards Centering & Shuttering	Sqm	14.00	910.22		12743.08
					<u>19803.76</u>
				<b>Say</b>	<b>19803.80</b>
<b>15 R.C.C. work of M-25 grade with 20mm and down grade black hard granite (crusher broken) stone chips including hoisting and laying in Roof Slab in Ground Floor</b>					
<b>Unit = cum</b>					
Rate as above					6742.71
Add towards Centering & Shuttering	Sqm	10.00	671.94		6719.40
					<u>13462.11</u>
				<b>Say</b>	<b>13462.10</b>
<b>(A) For First Floor Roof Slab</b>					
Rate as above					6834.28
Add towards Centering & Shuttering	Sqm	10.00	806.33		8063.30
					<u>14897.58</u>
				<b>Say</b>	<b>14897.60</b>
<b>(B) For Second Floor Roof Slab</b>					

Rate as above				6939.58
Add towards Centering & Shuttering	Sqm	10.00	967.60	9676.00
				<u>16615.58</u>
			<b>Say</b>	<b>16615.60</b>
<b>(C) For Third Floor Roof Slab</b>				
Rate as above				7060.68
Add towards Centering & Shuttering	Sqm	10.00	1161.12	11611.20
				<u>18671.88</u>
			<b>Say</b>	<b>18671.90</b>
<b>(D) For Fourth Floor Roof Slab</b>				
Rate as above				7199.94
Add towards Centering & Shuttering	Sqm	10.00	1393.34	13933.40
				<u>21133.34</u>
			<b>Say</b>	<b>21133.30</b>
<b>(E) For Fifth Floor Roof Slab</b>				
Rate as above				7360.09
Add towards Centering & Shuttering	Sqm	10.00	1672.01	16720.10
				<u>24080.19</u>
			<b>Say</b>	<b>24080.20</b>
<b>(F) For Sixth Floor Roof Slab</b>				
Rate as above				7544.26
Add towards Centering & Shuttering	Sqm	10.00	2006.41	20064.10
				<u>27608.36</u>
			<b>Say</b>	<b>27608.40</b>
<b>(G) For Seventh Floor Roof Slab</b>				
Rate as above				7756.07
Add towards Centering & Shuttering	Sqm	10.00	2407.69	24076.90
				<u>31832.97</u>
			<b>Say</b>	<b>31833.00</b>
<b>16 R.C.C. work of M-25 grade with 20mm and down grade black hard granite (crusher broken) stone chips including hoisting and laying in Chajja (65 mm av. Thick) in Ground Floor</b>				
<b>Unit = Sqm</b>				
Rate as above	Cum	0.065	6742.71	438.28
Add towards Centering & Shuttering	Sqm	1.10	671.94	739.13
				<u>1177.41</u>
			<b>Say</b>	<b>1177.40</b>
<b>(A) For First Floor Chajja</b>				
Rate as above	Cum	0.065	6834.28	444.23
Add towards Centering & Shuttering	Sqm	1.10	806.33	886.96
				<u>1331.19</u>
			<b>Say</b>	<b>1331.20</b>
<b>(B) For Second Floor Chajja</b>				
Rate as above	Cum	0.065	6939.58	451.07
Add towards Centering & Shuttering	Sqm	1.10	967.60	1064.36
				<u>1064.36</u>

					1515.43
				<b>Say</b>	<b>1515.40</b>
<b>(C) For Third Floor Chajja</b>					
Rate as above	Cum	0.065	7060.68		458.94
Add towards Centering & Shuttering	Sqm	1.10	1161.12		1277.23
					<u>1736.17</u>
				<b>Say</b>	<b>1736.20</b>
<b>(D) For Fourth Floor Chajja</b>					
Rate as above	Cum	0.065	7199.94		468.00
Add towards Centering & Shuttering	Sqm	1.10	1393.34		1532.67
					<u>2000.67</u>
				<b>Say</b>	<b>2000.70</b>
<b>(E) For Fifth Floor Chajja</b>					
Rate as above	Cum	0.065	7360.09		478.41
Add towards Centering & Shuttering	Sqm	1.10	1672.01		1839.21
					<u>2317.62</u>
				<b>Say</b>	<b>2317.60</b>
<b>(F) For Sixth Floor Chajja</b>					
Rate as above	Cum	0.065	7544.26		490.38
Add towards Centering & Shuttering	Sqm	1.10	2006.41		2207.05
					<u>2697.43</u>
				<b>Say</b>	<b>2697.40</b>
<b>(G) For Seventh Floor Chajja</b>					
Rate as above	Cum	0.065	7756.07		504.14
Add towards Centering & Shuttering	Sqm	1.10	2407.69		2648.46
					<u>3152.60</u>
				<b>Say</b>	<b>3152.60</b>
<b>17 R.C.C. work of M-25 grade with 20mm and down grade black hard granite (crusher broken) stone chips including hoisting and laying in Shelves (37.5 mm Thick) in Ground Floor</b>					
<b>Unit = Sqm</b>					
Rate as above	Cum	0.0375	6742.71		252.85
Add towards Centering & Shuttering	Sqm	1.10	671.94		739.13
					<u>991.98</u>
				<b>Say</b>	<b>992.00</b>
<b>(A) For First Floor Shelves</b>					
Rate as above	Cum	0.0375	6834.28		256.29
Add towards Centering & Shuttering	Sqm	1.10	806.33		886.96
					<u>1143.25</u>
				<b>Say</b>	<b>1143.30</b>
<b>(B) For Second Floor Shelves</b>					
Rate as above	Cum	0.0375	6939.58		260.23
Add towards Centering & Shuttering	Sqm	1.10	967.60		1064.36
					<u>1324.59</u>
				<b>Say</b>	<b>1324.60</b>

**(C) For Third Floor Shelves**

Rate as above	Cum	0.0375	7060.68	264.78
Add towards Centering & Shuttering	Sqm	1.10	1161.12	1277.23
				<u>1542.01</u>
			<b>Say</b>	<b>1542.00</b>

**(D) For Fourth Floor Shelves**

Rate as above	Cum	0.0375	7199.94	270.00
Add towards Centering & Shuttering	Sqm	1.10	1393.34	1532.67
				<u>1802.67</u>
			<b>Say</b>	<b>1802.70</b>

**(E) For Fifth Floor Shelves**

Rate as above	Cum	0.0375	7360.09	276.00
Add towards Centering & Shuttering	Sqm	1.10	1672.01	1839.21
				<u>2115.21</u>
			<b>Say</b>	<b>2115.20</b>

**(F) For Sixth Floor Shelves**

Rate as above	Cum	0.0375	7544.26	282.91
Add towards Centering & Shuttering	Sqm	1.10	2006.41	2207.05
				<u>2489.96</u>
			<b>Say</b>	<b>2490.00</b>

**(G) For Seventh Floor Shelves**

Rate as above	Cum	0.0375	7756.07	290.85
Add towards Centering & Shuttering	Sqm	1.10	2407.69	2648.46
				<u>2939.31</u>
			<b>Say</b>	<b>2939.30</b>

- 19 R.C.C. work of M-25 grade with 20mm and down grade black hard granite (crusher broken) stone chips including hoisting and laying in **Drain wall.**

**Unit = Sqm**

Rate as above	Cum	1.00	6742.71	6742.71
Add towards Centering & Shuttering	Sqm	5.00	907.79	4538.95
				<u>11281.66</u>
			<b>Say</b>	<b>11281.70</b>

**(A) For First Floor wall**

Rate as above	Cum	1.00	6834.28	6834.28
Add towards Centering & Shuttering	Sqm	5.00	1089.35	5446.75
				<u>12281.03</u>
			<b>Say</b>	<b>12281.00</b>

**(B) For Second Floor wall**

Rate as above	Cum	1.00	6939.58	6939.58
Add towards Centering & Shuttering	Sqm	5.00	1307.22	6536.10
				<u>13475.68</u>
			<b>Say</b>	<b>13475.70</b>

**(C) For Third Floor wall**

Rate as above	Cum	1.00	7060.68	7060.68
Add towards Centering & Shuttering	Sqm	5.00	1568.66	7843.30
				<u>7843.30</u>

				14903.98
			<b>Say</b>	<b>14904.00</b>
<b>(D) For Fourth Floor wall</b>				
Rate as above	Cum	1.00	7199.94	7199.94
Add towards Centering & Shuttering	Sqm	5.00	1882.39	9411.95
				<u>16611.89</u>
			<b>Say</b>	<b>16611.90</b>
<b>(E) For Fifth Floor wall</b>				
Rate as above	Cum	1.00	7360.09	7360.09
Add towards Centering & Shuttering	Sqm	5.00	2258.87	11294.35
				<u>18654.44</u>
			<b>Say</b>	<b>18654.40</b>
<b>(F) For Sixth Floor wall</b>				
Rate as above	Cum	1.00	7544.26	7544.26
Add towards Centering & Shuttering	Sqm	5.00	2710.64	13553.20
				<u>21097.46</u>
			<b>Say</b>	<b>21097.50</b>
<b>(G) For Seventh Floor wall</b>				
Rate as above	Cum	1.00	7756.07	7756.07
Add towards Centering & Shuttering	Sqm	5.00	3252.77	16263.85
				<u>24019.92</u>
			<b>Say</b>	<b>24019.90</b>
<b>9 R.C.C. work of M-25 grade with 20mm and down grade black hard granite (crusher broken) stone chips including hoisting and laying in Fins(80 mm thick) in Ground Floor</b>				
<b>Unit = Sqm</b>				
Rate as above	Cum	0.08	6742.71	539.42
Add towards Centering & Shuttering	Sqm	2.00	907.79	1815.58
				<u>2355.00</u>
			<b>Say</b>	<b>2355.00</b>
<b>(A) For First Floor Fins</b>				
Rate as above	Cum	0.08	6834.28	546.74
Add towards Centering & Shuttering	Sqm	2.00	1089.35	2178.70
				<u>2725.44</u>
			<b>Say</b>	<b>2725.40</b>
<b>(B) For Second Floor Fins</b>				
Rate as above	Cum	0.08	6939.58	555.17
Add towards Centering & Shuttering	Sqm	2.00	1307.22	2614.44
				<u>3169.61</u>
			<b>Say</b>	<b>3169.60</b>
<b>(C) For Third Floor Fins</b>				
Rate as above	Cum	0.08	7060.68	564.85
Add towards Centering & Shuttering	Sqm	2.00	1568.66	3137.32
				<u>3702.17</u>

				<b>Say</b>	<b>3702.20</b>
<b>(D) For Fourth Floor Fins</b>					
Rate as above	Cum	0.08	7199.94		576.00
Add towards Centering & Shuttering	Sqm	2.00	1882.39		3764.78
					4340.78
				<b>Say</b>	<b>4340.80</b>
<b>(E) For Fifth Floor Fins</b>					
Rate as above	Cum	0.08	7360.09		588.81
Add towards Centering & Shuttering	Sqm	2.00	2258.87		4517.74
					5106.55
				<b>Say</b>	<b>5106.60</b>
<b>(F) For Sixth Floor Fins</b>					
Rate as above	Cum	0.08	7544.26		603.54
Add towards Centering & Shuttering	Sqm	2.00	2710.64		5421.28
					6024.82
				<b>Say</b>	<b>6024.80</b>
<b>(G) For Seventh Floor Fins</b>					
Rate as above	Cum	0.08	7756.07		620.49
Add towards Centering & Shuttering	Sqm	2.00	3252.77		6505.54
					7126.03
				<b>Say</b>	<b>7126.00</b>
<b>18</b>	Supplying, fitting and placing uncoated HYSD bar reinforcement complete as per drawing and technical specifications in <b>Ground Floor</b>				
	<b>Unit = Qntl. (A/R 2006-Page No-52 item-9)</b>				
	<b>Taking output = 1MT</b>				
<b>a) Materials</b>					
HYSD bars including 5 percent overlaps and wastage	MT	1.05	67971.65		71370.23
Binding wire	Kg.	8.00	90.10		720.80
					<b>72091.03</b>
<b>b) Labour</b>					
Mate	Each	0.44	385.00		169.40
Blacksmith Special	Each	3.00	495.00		1485.00
Man Mulia	Each	8.00	345.00		2760.00
					<b>4414.40</b>
<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	76505.43		<b>5737.91</b>
<b>d) Contracor's Profit @ 7.5% on (a+b)</b>		7.5%	76505.43		<b>5737.91</b>
<b>e) Carriage &amp; Royalty</b>					
HYSD bars including 5 percent overlaps and wastage	MT	1.05	604.57		634.80
					<b>634.80</b>
<b>Rate per 1 MT = a+b+c+d+e</b>					<b>88616.05</b>
<b>Rate per 1 Qnt = (a+b+c+d+e)/10</b>					<b>8861.61</b>

Add towards Labour Cess @ 1%	1%	8861.61	88.62
			<b>8950.23</b>
		<b>Say</b>	<b>8950.20</b>
<b>(A) For First Floor reinforcement</b>			
Rate as above			8950.23
Add extra Labour	5%	441.44	22.07
Overhead Charges on extra labour	7.5%	22.07	1.66
Contractor's Profit	7.5%	22.07	1.66
Add towards extra Labour Cess @ 1%	1%	25.39	0.25
			<b>8975.87</b>
		<b>Say</b>	<b>8975.90</b>
<b>(B) For Second Floor reinforcement</b>			
Rate as above			8975.87
Add extra Labour	5%	463.51	23.18
Overhead Charges on extra labour	7.5%	23.18	1.74
Contractor's Profit	7.5%	23.18	1.74
Add towards extra Labour Cess @ 1%	1%	26.66	0.27
			<b>9002.80</b>
		<b>Say</b>	<b>9002.80</b>
<b>(C) For Third Floor reinforcement</b>			
Rate as above			9002.80
Add extra Labour	5%	486.69	24.33
Overhead Charges on extra labour	7.5%	24.33	1.82
Contractor's Profit	7.5%	24.33	1.82
Add towards extra Labour Cess @ 1%	1%	27.97	0.28
			<b>9031.05</b>
		<b>Say</b>	<b>9031.10</b>
<b>(D) For Fourth Floor reinforcement</b>			
Rate as above			9031.05
Add extra Labour	5%	511.02	25.55
Overhead Charges on extra labour	7.5%	25.55	1.92
Contractor's Profit	7.5%	25.55	1.92
Add towards extra Labour Cess @ 1%	1%	29.39	0.29
			<b>9060.73</b>
		<b>Say</b>	<b>9060.70</b>
<b>(E) For Fifth Floor reinforcement</b>			
Rate as above			9060.73
Add extra Labour	5%	536.57	26.83
Overhead Charges on extra labour	7.5%	26.83	2.01
Contractor's Profit	7.5%	26.83	2.01
Add towards extra Labour Cess @ 1%	1%	30.85	0.31
			<b>9091.89</b>
		<b>Say</b>	<b>9091.90</b>
<b>(F) For sixth Floor reinforcement</b>			
Rate as above			9091.89
Add extra Labour	5%	563.40	28.17



Overhead Charges on extra labour	7.5%	28.17	2.11
Contractor's Profit	7.5%	28.17	2.11
Add towards extra Labour Cess @ 1%	1%	32.39	0.32
			<u>9124.60</u>
		<b>Say</b>	<b>9124.60</b>

**(G) For Seventh Floor reinforcement**

Rate as above			9124.60
Add extra Labour	5%	591.57	29.58
Overhead Charges on extra labour	7.5%	29.58	2.22
Contractor's Profit	7.5%	29.58	2.22
Add towards extra Labour Cess @ 1%	1%	34.02	0.34
			<u>9158.96</u>
		<b>Say</b>	<b>9159.00</b>

**19 12mm thick Cement Plaster (1:6) over Brick Masonry finished smooth in Ground Floor**

**Unit = Sqm (A/R 2006-Page No-103 item-4)**

**Taking output = 1Sqm**

**a) Materials**

Sand	Cum	0.015	76.88	1.15
Cement	Qntl.	0.0358	459.94	16.47
				<u>17.62</u>

**b) Labour**

Mason 2nd Class	Each	0.14	435.00	60.90
Man Mulia	Each	0.07	345.00	24.15
Woman Mulia	Each	0.05	345.00	17.25
				<u>102.30</u>

**c) Overhead charges @ 7.5% on (a+b)**

7.5% 119.92 **8.99**

**d) Contracor's Profit @ 7.5% on (a+b)**

7.5% 119.92 **8.99**

**e) Carriage & Royalty**

Sand	Cum	0.02	1395.16	20.93
Cement	Qntl.	0.0358	60.46	2.16
				<u>23.09</u>

**Rate per 1 Sqm = a+b+c+d+e**

160.99

Add towards Labour Cess @ 1%

1% 160.99 1.61

162.60

**Say 162.60**

**(A) For First Floor (12 mm C.P Inside & OUT SIDE)**

Rate as above			162.60
Add extra Labour	5%	102.30	5.12
Overhead Charges on extra labour	7.5%	5.12	0.38
Contractor's Profit	7.5%	5.12	0.38
Add towards extra Labour Cess @ 1%	1%	5.88	0.06
			<u>168.54</u>
		<b>Say</b>	<b>168.50</b>

**(B) For Second Floor (12 mm C.P Inside & OUT SIDE)**

Rate as above			168.54
Add extra Labour	5%	107.42	5.37
Overhead Charges on extra labour	7.5%	5.37	0.40
Contractor's Profit	7.5%	5.37	0.40
Add towards extra Labour Cess @ 1%	1%	6.17	0.06
			<u>174.77</u>
		<b>Say</b>	<b>174.80</b>

**(C) For Third Floor (12 mm C.P Inside & OUT SIDE)**

Rate as above			174.77
Add extra Labour	5%	112.79	5.64
Overhead Charges on extra labour	7.5%	5.64	0.42
Contractor's Profit	7.5%	5.64	0.42
Add towards extra Labour Cess @ 1%	1%	6.48	0.06
			<u>181.31</u>
		<b>Say</b>	<b>181.30</b>

**(D) For Fourth Floor (12 mm C.P Inside & OUT SIDE)**

Rate as above			167.50
Add extra Labour	5%	143.96	7.20
Overhead Charges on extra labour	7.5%	7.20	0.54
Contractor's Profit	7.5%	7.20	0.54
Add towards extra Labour Cess @ 1%	1%	8.28	0.08
			<u>175.86</u>
		<b>Say</b>	<b>175.90</b>

**20 16mm thick Cement Plaster (1:6) over Brick Masonry finished smooth in Ground Floor**

**Unit = Sqm (A/R 2006-Page No-105 item-14)**

**Taking output = 1Sqm**

**a) Materials**

Sand	Cum	0.018	76.88	1.38
Cement	Qntl.	0.043	459.94	19.78
				<u>21.16</u>

**b) Labour**

Mason 2nd Class	Each	0.16	435.00	69.60
Man Mulia	Each	0.13	345.00	44.85
Woman Mulia	Each	0.11	345.00	37.95
				<u>152.40</u>

**c) Overhead charges @ 7.5% on (a+b)**

7.5% 173.56 **13.02**

**d) Contracor's Profit @ 7.5% on (a+b)**

7.5% 173.56 **13.02**

**e) Carriage & Royalty**

Sand	Cum	0.018	1395.16	25.11
Cement	Qntl.	0.043	60.46	2.60
				<u>27.71</u>

**Rate per 1 Sqm = a+b+c+d+e**

227.31

Add towards Labour Cess @ 1%

1% 227.31 2.27

**229.58**

**Say 229.60**

**(A) For First Floor (16 mm C.P INSIDE)**

Rate as above			229.58
Add extra Labour	3%	152.40	4.57
Overhead Charges on extra labour	7.5%	4.57	0.34
Contractor's Profit	7.5%	4.57	0.34
Add towards extra Labour Cess @ 1%	1%	5.25	0.05
			<hr/> 234.88
		<b>Say</b>	<b>234.90</b>

**(B) For Second Floor (16 mm C.P INSIDE)**

Rate as above			234.88
Add extra Labour	3%	156.97	4.71
Overhead Charges on extra labour	7.5%	4.71	0.35
Contractor's Profit	7.5%	4.71	0.35
Add towards extra Labour Cess @ 1%	1%	5.41	0.05
			<hr/> 240.34
		<b>Say</b>	<b>240.30</b>

**(C) For Third Floor (16 mm C.P INSIDE)**

Rate as above			240.34
Add extra Labour	3%	161.68	4.85
Overhead Charges on extra labour	7.5%	4.85	0.36
Contractor's Profit	7.5%	4.85	0.36
Add towards extra Labour Cess @ 1%	1%	5.57	0.06
			<hr/> 245.97
		<b>Say</b>	<b>246.00</b>

**(D) For Fourth Floor (16 mm C.P INSIDE)**

Rate as above			229.30
Add extra Labour	3%	166.53	5.00
Overhead Charges on extra labour	7.5%	5.00	0.38
Contractor's Profit	7.5%	5.00	0.38
Add towards extra Labour Cess @ 1%	1%	5.76	0.06
			<hr/> 235.12
		<b>Say</b>	<b>235.10</b>

- 21** 6 mm thick cement plaster (1:4) to RCC surfaces finished smooth including closed deep chipping and slury treatment.  
**in Ground Floor**

**Unit = Sqm (A/R 2006-Page No-109 item-27)**

**Taking output = 1Sqm**

**a) Materials**

Sand	Cum	0.0075	76.88	0.58
Cement	Qntl.	0.0372	459.94	17.11
				<hr/> <b>17.69</b>

**b) Labour**

Mason 2nd Class	Each	0.14	435.00	60.90
Man Mulia	Each	0.12	345.00	41.40

Woman Mulia	Each	0.05	345.00	17.25
				<b>119.55</b>
<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	137.24	<b>10.29</b>
<b>d) Contracor's Profit @ 7.5% on (a+b)</b>		7.5%	137.24	<b>10.29</b>
<b>e) Carriage &amp; Royalty</b>				
Sand	Cum	0.0075	1395.16	10.46
Cement	Qntl.	0.0372	60.46	2.25
				<b>12.71</b>
<b>Rate per 1 Sqm = a+b+c+d+e</b>				170.53
Add towards Labour Cess @ 1%		1%	170.53	1.71
				<b>172.24</b>
			<b>Say</b>	<b>172.20</b>
<b>(A) For First Floor 6 mm C.P to inside RCC surface</b>				
Rate as above				172.24
Add extra Labour		3%	119.55	3.59
Overhead Charges on extra labour		7.5%	3.59	0.27
Contractor's Profit		7.5%	3.59	0.27
Add towards extra Labour Cess @ 1%		1%	4.13	0.04
				176.41
			<b>Say</b>	<b>176.40</b>
<b>(B) For Second Floor 6 mm C.P to inside RCC surface</b>				
Rate as above				176.41
Add extra Labour		3%	123.14	3.69
Overhead Charges on extra labour		7.5%	3.69	0.28
Contractor's Profit		7.5%	3.69	0.28
Add towards extra Labour Cess @ 1%		1%	4.25	0.04
				180.70
			<b>Say</b>	<b>180.70</b>
<b>(C) For Third Floor 6 mm C.P to inside RCC surface</b>				
Rate as above				180.70
Add extra Labour		3%	126.83	3.80
Overhead Charges on extra labour		7.5%	3.80	0.29
Contractor's Profit		7.5%	3.80	0.29
Add towards extra Labour Cess @ 1%		1%	4.38	0.04
				185.12
			<b>Say</b>	<b>185.10</b>
<b>(D) For Fourth Floor 6 mm C.P to inside RCC surface</b>				
Rate as above				178.30
Add extra Labour		3%	147.03	4.41
Overhead Charges on extra labour		7.5%	4.41	0.33
Contractor's Profit		7.5%	4.41	0.33
Add towards extra Labour Cess @ 1%		1%	5.07	0.05
				183.42
			<b>Say</b>	<b>183.40</b>

- 22 2.5 cm thick grading concrete (1:2:2) on roof slab with 6.7mm & down grades size hard granite crusher broken chips on new work in **Ground Floor**

**Unit = Sqm (A/R 2006-Page No-47 item-17)**

**Taking output = 1 Sqm**

**a) Materials**

4.7 mm size hard granite C.B chips	Cum	0.0169	850.20	14.37
Sand	Cum	0.0169	76.88	1.30
Cement	Qntl.	0.1208	459.94	55.56
				<u>71.23</u>

**b) Labour**

Mason Special	Each	0.10	495.00	49.50
Man Mulia	Each	0.36	345.00	124.20
				<u>173.70</u>

**c) Overhead charges @ 7.5% on (a+b)**

7.5% 244.93 **18.37**

**d) Contracor's Profit @ 7.5% on (a+b)**

7.5% 244.93 **18.37**

**e) Carriage & Royalty**

4.7 mm size hard granite C.B chips	Cum	0.0169	1525.41	25.78
Sand	Cum	0.0169	1395.16	23.58
Cement	Qntl.	0.1208	60.46	7.30
				<u>56.66</u>

**Rate per 1 Sqm = a+b+c+d+e**

338.33

Add towards Labour Cess @ 1%

1% 338.33

341.71

**Say 341.70**

**(A) For First Floor 2.5 cm thick grading concrete (1:2:2)**

Rate as above				341.71
Add extra Labour	15%	173.70	26.06	
Overhead Charges on extra labour	7.5%	26.06	1.95	
Contractor's Profit	7.5%	26.06	1.95	
Add towards extra Labour Cess @ 1%	1%	29.96	0.30	
				<u>371.97</u>

**Say 372.00**

**(B) For Second Floor 2.5 cm thick grading concrete (1:2:2)**

Rate as above				371.97
Add extra Labour	15%	199.76	29.96	
Overhead Charges on extra labour	7.5%	29.96	2.25	
Contractor's Profit	7.5%	29.96	2.25	
Add towards extra Labour Cess @ 1%	1%	34.46	0.34	
				<u>406.77</u>

			<b>Say</b>	<b>406.80</b>
<b>(C) For Third Floor 2.5 cm thick grading concrete (1:2:2)</b>				
Rate as above				406.77
Add extra Labour	15%	229.72		34.46
Overhead Charges on extra labour	7.5%	34.46		2.58
Contractor's Profit	7.5%	34.46		2.58
Add towards extra Labour Cess @ 1%	1%	39.62		0.40
				<hr style="width: 100%; border: 0.5px solid black;"/>
				446.79
			<b>Say</b>	<b>446.80</b>
<b>(D) For Fourth Floor 2.5 cm thick grading concrete (1:2:2)</b>				
Rate as above				446.79
Add extra Labour	15%	264.18		39.63
Overhead Charges on extra labour	7.5%	39.63		2.97
Contractor's Profit	7.5%	39.63		2.97
Add towards extra Labour Cess @ 1%	1%	45.57		0.46
				<hr style="width: 100%; border: 0.5px solid black;"/>
				492.82
			<b>Say</b>	<b>492.80</b>
<b>(E) For Fifth Floor 2.5 cm thick grading concrete (1:2:2)</b>				
Rate as above				492.82
Add extra Labour	15%	303.81		45.57
Overhead Charges on extra labour	7.5%	45.57		3.42
Contractor's Profit	7.5%	45.57		3.42
Add towards extra Labour Cess @ 1%	1%	52.41		0.52
				<hr style="width: 100%; border: 0.5px solid black;"/>
				545.75
			<b>Say</b>	<b>545.80</b>
<b>(D) For Sixth Floor 2.5 cm thick grading concrete (1:2:2)</b>				
Rate as above				545.75
Add extra Labour	15%	349.38		52.41
Overhead Charges on extra labour	7.5%	52.41		3.93
Contractor's Profit	7.5%	52.41		3.93
Add towards extra Labour Cess @ 1%	1%	60.27		0.60
				<hr style="width: 100%; border: 0.5px solid black;"/>
				606.62
			<b>Say</b>	<b>606.60</b>
<b>(E) For Seventh Floor 2.5 cm thick grading concrete (1:2:2)</b>				
Rate as above				606.62
Add extra Labour	15%	401.79		60.27
Overhead Charges on extra labour	7.5%	60.27		4.52
Contractor's Profit	7.5%	60.27		4.52
Add towards extra Labour Cess @ 1%	1%	69.31		0.69
				<hr style="width: 100%; border: 0.5px solid black;"/>
				676.62
			<b>Say</b>	<b>676.60</b>

- 23 Finishing surface of walls with **cement based 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 labour T & P etc. as per direction of Engineer -In -charge. in **Ground Floor**

**Unit = Sqm (A/R 2006-Page No-236 item-2)**

**Taking output = 10Sqm**

**a) Materials**

Cement based Putty	Kg.	8.00	23.62	188.96
				<u>188.96</u>

**b) Labour**

Painter 2nd Class	Each	0.50	435.00	217.50
Man Mulia	Each	0.57	345.00	196.65
				<u>414.15</u>

**c) Overhead charges @ 7.5% on (a+b)**

7.5% 603.11 **45.23**

**d) Contracor's Profit @ 7.5% on (a+b)**

7.5% 603.11 **45.23**

**Rate per 10 Sqm = a+b+c+d**

693.57

**Rate per 1 Sqm = (a+b+c+d)/10**

69.36

Add towards Labour Cess @ 1%

1% 69.36 0.69

**70.05**

**Say 70.10**

- 24 Priming one coat with approved **Wood Primer on wood work in Ground Floor**

**Unit = Sqm (A/R 2006-Page No-93 item-1)**

**Taking output = 9.3 Sqm**

**a) Labour**

Painter Special	Each	0.50	495.00	247.50
Man Mulia	Each	0.50	345.00	172.50
				<u>420.00</u>

Add towards cost of Wood Primer

Ltr 0.700 142.70 99.89

**b) Overhead charges @ 7.5% on (a)**

7.5% 519.89 **38.99**

**c) Contractor's Profit @ 7.5% on (a)**

7.5% 519.89 **38.99**

**Rate per 9.3 Sqm = a+b+c**

**597.87**

**Rate per 1 Sqm = (a+b+c)/9.3**

64.29

**64.29**

Add towards Labour Cess @ 1%

1% 64.29 0.64

64.93

**Say 64.90**

**(A) For First Floor one coat Wood Primer**

Rate as above 64.93

Add extra Labour 3% 45.16 1.35

Overhead Charges on extra labour 7.5% 1.35 0.10

Contractor's Profit 7.5% 1.35 0.10

Add towards extra Labour Cess @ 1% 1% 1.55 0.02

66.50

			<b>Say</b>	<b>66.50</b>
<b>(B) For Second Floor one coat Wood Primer</b>				
Rate as above				66.50
Add extra Labour	3%	46.51		1.40
Overhead Charges on extra labour	7.5%	1.40		0.11
Contractor's Profit	7.5%	1.40		0.11
Add towards extra Labour Cess @ 1%	1%	1.62		0.02
				68.14
			<b>Say</b>	<b>68.10</b>
<b>(C) For Third Floor one coat Wood Primer</b>				
Rate as above				68.14
Add extra Labour	3%	47.91		1.44
Overhead Charges on extra labour	7.5%	1.44		0.11
Contractor's Profit	7.5%	1.44		0.11
Add towards extra Labour Cess @ 1%	1%	1.66		0.02
				69.82
			<b>Say</b>	<b>69.80</b>
<b>25 Priming one coat with approved Red Oxide Primer on Steel work in Ground Floor</b>				
<b>Unit = Sqm (A/R 2006-Page No-93 item-1)</b>				
<b>Taking output = 9.3Sqm</b>				
<b>a) Labour</b>				
Painter Special	Each	0.50	495.00	247.50
Man Mulia	Each	0.50	345.00	172.50
				<b>420.00</b>
<b>b) Overhead charges @ 7.5% on (a)</b>	7.5%		420.00	<b>31.50</b>
<b>c) Contractor's Profit @ 7.5% on (a)</b>	7.5%		420.00	<b>31.50</b>
<b>Rate per 9.3 Sqm = a+b+c</b>				<b>483.00</b>
<b>Rate per 1 Sqm = (a+b+c)/9.3</b>				51.94
Add towards cost of Red Oxide Primer	Ltr	0.054	308.96	16.68
				<b>68.62</b>
Add towards Labour Cess @ 1%	1%		68.62	0.69
				69.31
			<b>Say</b>	<b>69.30</b>
<b>(A) For First Floor one coat Red Oxide Primer</b>				
Rate as above				69.31
Add extra Labour	3%	45.16		1.35
Overhead Charges on extra labour	7.5%	1.35		0.10
Contractor's Profit	7.5%	1.35		0.10
Add towards extra Labour Cess @ 1%	1%	1.55		0.02
				70.88
			<b>Say</b>	<b>70.90</b>
<b>(B) For Second Floor one coat Red Oxide Primer</b>				
Rate as above				70.88
Add extra Labour	3%	46.51		1.40
Overhead Charges on extra labour	7.5%	1.40		0.11



Contractor's Profit	7.5%	1.40	0.11
Add towards extra Labour Cess @ 1%	1%	1.62	0.02
			<hr/> 72.52
		<b>Say</b>	<b>72.50</b>

**(C) For Third Floor one coat Red Oxide Primer**

Rate as above			72.52
Add extra Labour	3%	47.91	1.44
Overhead Charges on extra labour	7.5%	1.44	0.11
Contractor's Profit	7.5%	1.44	0.11
Add towards extra Labour Cess @ 1%	1%	1.66	0.02
			<hr/> 74.20
		<b>Say</b>	<b>74.20</b>

**(D) For Fourth Floor one coat Red Oxide Primer**

Rate as above			74.20
Add extra Labour	3%	49.35	1.48
Overhead Charges on extra labour	7.5%	1.48	0.11
Contractor's Profit	7.5%	1.48	0.11
Add towards extra Labour Cess @ 1%	1%	1.70	0.02
			<hr/> 75.92
		<b>Say</b>	<b>75.90</b>

**26 Priming one coat with approved Water Bound Wall cement Primer on Plastered Surface in Ground Floor**

**Unit = Sqm (A/R 2006-Page No-93 item-1)**

**Taking output = 9.3Sqm**

**a) Labour**

Painter Special	Each	0.50	495.00	247.50
Man Mulia	Each	0.50	345.00	172.50
				<hr/> 420.00
Add towards cost of Water Bound Wall Cement Primer	Ltr	0.780	125.50	97.89

**b) Overhead charges @ 7.5% on (a)** 7.5% 517.89 **38.84**

**c) Contractor's Profit @ 7.5% on (a)** 7.5% 517.89 **38.84**

**Rate per 9.3 Sqm = a+b+c** **595.57**

**Rate per 1 Sqm = (a+b+c)/9.3** **64.04**

**64.04**

Add towards Labour Cess @ 1% 1% 64.04 **0.64**

---

64.68

**Say 64.70**

**Inside Walls**

**(A) For First Floor one coat Primer on Plastered Surface**

Rate as above			64.68
Add extra Labour	3%	45.16	1.35
Overhead Charges on extra labour	7.5%	1.35	0.10
Contractor's Profit	7.5%	1.35	0.10
Add towards extra Labour Cess @ 1%	1%	1.55	0.02
			<hr/> 64.68

				66.25
Inside Walls			<b>Say</b>	<b>66.30</b>
<b>(B) For Second Floor one coat Primer on Plastered Surface</b>				
Rate as above				66.25
Add extra Labour	3%	46.51		1.40
Overhead Charges on extra labour	7.5%	1.40		0.11
Contractor's Profit	7.5%	1.40		0.11
Add towards extra Labour Cess @ 1%	1%	1.62		0.02
				<u>67.89</u>
Inside Walls			<b>Say</b>	<b>67.90</b>
<b>(C) For Third Floor one coat Primer on Plastered Surface</b>				
Rate as above				67.89
Add extra Labour	3%	47.91		1.44
Overhead Charges on extra labour	7.5%	1.44		0.11
Contractor's Profit	7.5%	1.44		0.11
Add towards extra Labour Cess @ 1%	1%	1.66		0.02
				<u>69.57</u>
Inside Walls			<b>Say</b>	<b>69.60</b>
<b>(D) For Fourth Floor one coat Primer on Plastered Surface</b>				
Rate as above				86.10
Add extra Labour	3%	3.26		0.10
Overhead Charges on extra labour	7.5%	0.10		0.01
Contractor's Profit	7.5%	0.10		0.01
Add towards extra Labour Cess @ 1%	1%	0.12		0.00
				<u>86.22</u>
Inside Walls			<b>Say</b>	<b>86.20</b>
<b>27 Painting two coats with approved Enamel Paint on wood work and Steel work in Ground Floor</b>				
<b>Unit = Sqm (A/R 2006-Page No-93 item-3)</b>				
<b>Taking output = 9.3 Sqm</b>				
<b>a) Labour</b>				
Painter Special	Each	1.25	495.00	618.75
Man Mulia	Each	1.10	345.00	379.50
				<u>998.25</u>
Add towards cost of Enamel Paint	Ltr	1.160	249.34	289.23
<b>b) Overhead charges @ 7.5% on (a)</b>		7.5%	1287.48	<b>96.56</b>
<b>c) Contractor's Profit @ 7.5% on (a)</b>		7.5%	1287.48	<b>96.56</b>
<b>Rate per 9.3 Sqm = a+b+c</b>				<b>1480.60</b>
<b>Rate per 1 Sqm = (a+b+c)/9.3</b>				159.20
Add towards cost of Enamel Paint	Ltr	0.125	249.34	
				<u>159.20</u>
Add towards Labour Cess @ 1%		1%	159.20	1.59
				<u>160.79</u>
			<b>Say</b>	<b>160.80</b>

**(A) For First Floor two coats Enamel Paint**

Rate as above			160.79
Add extra Labour	3%	107.34	3.22
Overhead Charges on extra labour	7.5%	3.22	0.24
Contractor's Profit	7.5%	3.22	0.24
Add towards extra Labour Cess @ 1%	1%	3.70	0.04
			<hr/>
			164.53
		<b>Say</b>	<b>164.50</b>

**(B) For Second Floor two coats Enamel Paint**

Rate as above			164.53
Add extra Labour	3%	110.56	3.32
Overhead Charges on extra labour	7.5%	3.32	0.25
Contractor's Profit	7.5%	3.32	0.25
Add towards extra Labour Cess @ 1%	1%	3.82	0.04
			<hr/>
			168.39
		<b>Say</b>	<b>168.40</b>

**(C) For Third Floor two coats Enamel Paint**

Rate as above			168.39
Add extra Labour	3%	113.88	3.42
Overhead Charges on extra labour	7.5%	3.42	0.26
Contractor's Profit	7.5%	3.42	0.26
Add towards extra Labour Cess @ 1%	1%	3.94	0.04
			<hr/>
			172.37
		<b>Say</b>	<b>172.40</b>

**28 Painting two coats with approved Enamel Paint on wood work over a coat of Wood Primer in Ground Floor**

**Unit = Sqm (A/R 2006-Page No-93 item-3)**

Priming 1 coat			64.93
Painting 2 coats			160.79
			<hr/>
			225.72
		<b>Say</b>	<b>225.70</b>

**(A) For First Floor two coats Enamel Paint over a coat of Primer**

Priming 1 coat			66.50
Painting 2 coats			164.53
			<hr/>
			231.03
		<b>Say</b>	<b>231.00</b>

**(B) For Second Floor two coats Enamel Paint over a coat of Primer**

Priming 1 coat			68.14
Painting 2 coats			168.39
			<hr/>
			236.53
		<b>Say</b>	<b>236.50</b>

**(C) For Third Floor two coats Enamel Paint over a coat of Primer**

Priming 1 coat			69.82
Painting 2 coats			172.37
			<hr/>
			242.19

				<b>Say</b>	<b>242.20</b>
<b>21</b>	<b>Wall Painting two coats with approved Plastic Emulsion Paint in Ground Floor.</b>				
	<b>Unit = Sqm (A/R 2006-Page No-99 item-20)</b>				
	<b>Taking output = 10Sqm</b>				
	<b>a) Labour</b>				
	Painter Special	Each	0.54	495.00	267.30
	Man Mulia	Each	0.64	345.00	220.80
					<b>488.10</b>
	Add towards cost of Plastic Emulsion Paint	Ltr	1.250	176.27	220.34
	<b>b) Overhead charges @ 7.5% on (a)</b>		7.5%	708.44	<b>53.13</b>
	<b>c) Contractor's Profit @ 7.5% on (a)</b>		7.5%	708.44	<b>53.13</b>
	<b>Rate per 10 Sqm = a+b+c</b>				<b>814.70</b>
	<b>Rate per 1 Sqm = (a+b+c)/10</b>				81.47
					<b>81.47</b>
	Add towards Labour Cess @ 1%		1%	81.47	0.81
					82.28
				<b>Say</b>	<b>82.30</b>
	<b>(A) For First Floor (INSIDE) two coats Plastic Emulsion Paint</b>				
	Rate as above				82.28
	Add extra Labour		3%	48.81	1.46
	Overhead Charges on extra labour		7.5%	1.46	0.11
	Contractor's Profit		7.5%	1.46	0.11
	Add towards extra Labour Cess @ 1%		1%	1.68	0.02
					83.98
				<b>Say</b>	<b>84.00</b>
	<b>(B) For Second Floor two coats Plastic Emulsion Paint</b>				
	Rate as above				83.98
	Add extra Labour		3%	50.27	1.51
	Overhead Charges on extra labour		7.5%	1.51	0.11
	Contractor's Profit		7.5%	1.51	0.11
	Add towards extra Labour Cess @ 1%		1%	1.73	0.02
					85.73
				<b>Say</b>	<b>85.70</b>
	<b>(C) For Third Floor two coats Plastic Emulsion Paint</b>				
	Rate as above				85.73
	Add extra Labour		3%	51.78	1.55
	Overhead Charges on extra labour		7.5%	1.55	0.12
	Contractor's Profit		7.5%	1.55	0.12
	Add towards extra Labour Cess @ 1%		1%	1.79	0.02
					87.54
				<b>Say</b>	<b>87.50</b>
	<b>(D) For Fourth Floor two coats Plastic Emulsion Paint</b>				
	Rate as above				87.54
	Add extra Labour		3%	53.33	1.60
	Overhead Charges on extra labour		7.5%	1.60	0.12

Contractor's Profit	7.5%	1.60	0.12
Add towards extra Labour Cess @ 1%	1%	1.84	0.02
			89.40
		<b>Say</b>	<b>89.40</b>
<b>(E) For Fifth Floor two coats Plastic Emulsion Paint</b>			
Rate as above			89.40
Add extra Labour	3%	54.93	1.65
Overhead Charges on extra labour	7.5%	1.65	0.12
Contractor's Profit	7.5%	1.65	0.12
Add towards extra Labour Cess @ 1%	1%	1.89	0.02
			91.31
		<b>Say</b>	<b>91.30</b>
<b>(D) For Sixth Floor two coats Plastic Emulsion Paint</b>			
Rate as above			91.31
Add extra Labour	3%	56.58	1.70
Overhead Charges on extra labour	7.5%	1.70	0.13
Contractor's Profit	7.5%	1.70	0.13
Add towards extra Labour Cess @ 1%	1%	1.96	0.02
			93.29
		<b>Say</b>	<b>93.30</b>
<b>(E) For Seventh Floor two coats Plastic Emulsion Paint</b>			
Rate as above			93.29
Add extra Labour	3%	58.28	1.75
Overhead Charges on extra labour	7.5%	1.75	0.13
Contractor's Profit	7.5%	1.75	0.13
Add towards extra Labour Cess @ 1%	1%	2.01	0.02
			95.32
		<b>Say</b>	<b>95.30</b>
<b>22 Wall Painting two coats with approved Plastic Emulsion Paint over a coat of Water Bound Wall cement Primer on Plastered Surface in Ground Floor</b>			
<b>Unit = Sqm</b>			
Priming 1 coat			64.68
Painting 2 coats			82.28
			146.96
		<b>Say</b>	<b>147.00</b>
<b>(A) For First Floor Plastic Emulsion</b>			
Priming 1 coat			66.25
Painting 2 coats			83.98
			150.23
		<b>Say</b>	<b>150.20</b>
<b>(B) For Second Floor Plastic Emulsion</b>			
Priming 1 coat			67.89
Painting 2 coats			85.73
			153.62

				<b>Say</b>	<b>153.60</b>
<b>(C) For Third Floor Plastic Emulsion</b>					
Priming 1 coat					69.57
Painting 2 coats					87.54
					<u>157.11</u>
				<b>Say</b>	<b>157.10</b>
<b>(D) For Fourth Floor Plastic Emulsion</b>					
Priming 1 coat					71.29
Painting 2 coats					89.40
					<u>160.69</u>
				<b>Say</b>	<b>160.70</b>
<b>(E) For Fifth Floor Plastic Emulsion</b>					
Priming 1 coat					73.05
Painting 2 coats					91.31
					<u>164.36</u>
				<b>Say</b>	<b>164.40</b>
<b>29 Wall Painting two coats with approved Distemper in Ground Floor</b>					
<b>Unit = Sqm (A/R 2006-Page No-99 item-22)</b>					
<b>Taking output = 10Sqm</b>					
<b>a) Labour</b>					
Painter Special	Each	0.52	495.00		257.40
Man Mulia	Each	0.62	345.00		213.90
					<u>471.30</u>
<b>b) Overhead charges @ 7.5% on (a)</b>		7.5%	471.30		<b>35.35</b>
<b>c) Contractor's Profit @ 7.5% on (a)</b>		7.5%	471.30		<b>35.35</b>
<b>Rate per 9.3 Sqm = a+b+c</b>					<b>542.00</b>
<b>Rate per 1 Sqm = (a+b+c)/10</b>					54.20
Add towards cost of Distemper	Kg	0.250	205.34		51.34
					<u>105.54</u>
Add towards Labour Cess @ 1%		1%	105.54		1.06
					<u>106.60</u>
				<b>Say</b>	<b>106.60</b>
<b>(A) For First Floor (INSIDE)</b>					
Rate as above					106.60
Add extra Labour		3%	47.13		1.41
Overhead Charges on extra labour		7.5%	1.41		0.11
Contractor's Profit		7.5%	1.41		0.11
Add towards extra Labour Cess @ 1%		1%	1.63		0.02
					<u>108.25</u>
				<b>Say</b>	<b>108.30</b>
<b>(B) For Second Floor</b>					
Rate as above					108.25
Add extra Labour		3%	48.54		1.46
Overhead Charges on extra labour		7.5%	1.46		0.11
Contractor's Profit		7.5%	1.46		0.11

Add towards extra Labour Cess @ 1%	1%	1.68	0.02
			<hr/> 109.95
		<b>Say</b>	<b>110.00</b>
<b>(C) For Third Floor</b>			
Rate as above			109.95
Add extra Labour	3%	50.00	1.50
Overhead Charges on extra labour	7.5%	1.50	0.11
Contractor's Profit	7.5%	1.50	0.11
Add towards extra Labour Cess @ 1%	1%	1.72	0.02
			<hr/> 111.69
		<b>Say</b>	<b>111.70</b>
<b>(C) For Fourth Floor</b>			
Rate as above			111.69
Add extra Labour	3%	51.50	1.55
Overhead Charges on extra labour	7.5%	1.55	0.12
Contractor's Profit	7.5%	1.55	0.12
Add towards extra Labour Cess @ 1%	1%	1.79	0.02
			<hr/> 113.50
		<b>Say</b>	<b>113.50</b>
<b>(C) For Fifth Floor</b>			
Rate as above			113.50
Add extra Labour	3%	53.05	1.59
Overhead Charges on extra labour	7.5%	1.59	0.12
Contractor's Profit	7.5%	1.59	0.12
Add towards extra Labour Cess @ 1%	1%	1.83	0.02
			<hr/> 115.35
		<b>Say</b>	<b>115.40</b>
<b>30 Wall Painting two coats with approved Distemper over a coat of Water Bound Wall cement Primer on Plastered Surface in Ground Floor</b>			
<b>Unit = Sqm</b>			
Priming 1 coat			64.68
Painting 2 coats			<hr/> 106.60
			<b>171.28</b>
		<b>Say</b>	<b>171.30</b>
<b>(A) For First Floor</b>			
Priming 1 coat			66.25
Painting 2 coats			<hr/> 108.25
			<b>174.50</b>
		<b>Say</b>	<b>174.50</b>
<b>(B) For Second Floor</b>			
Priming 1 coat			67.89
Painting 2 coats			<hr/> 109.95
			<b>177.84</b>
		<b>Say</b>	<b>177.80</b>

**(C) For Third Floor**

Priming 1 coat			69.57
Painting 2 coats			111.69
			<u>181.26</u>
		<b>Say</b>	<b>181.30</b>

**(D) For Fourth Floor**

Priming 1 coat			71.29
Painting 2 coats			113.50
			<u>184.79</u>
		<b>Say</b>	<b>184.80</b>

**(B) For Fifth Floor**

Priming 1 coat			73.05
Painting 2 coats			115.35
			<u>188.40</u>
		<b>Say</b>	<b>188.40</b>

**(F) For Sixth Floor Plastic Emulsion**

Priming 1 coat			74.88
Painting 2 coats			93.29
			<u>168.17</u>
		<b>Say</b>	<b>168.20</b>

**(G) For Seventh Plastic Emulsion**

Priming 1 coat			76.76
Painting 2 coats			95.32
			<u>172.08</u>
		<b>Say</b>	<b>172.10</b>

**(D) For Third Floor two coats Plastic Emulsion Paint**

Rate as above			87.50
Add extra Labour	3%	53.33	1.60
Overhead Charges on extra labour	7.5%	1.60	0.12
Contractor's Profit	7.5%	1.60	0.12
Add towards extra Labour Cess @ 1%	1%	1.84	0.02
			<u>89.36</u>
		<b>Say</b>	<b>89.40</b>

**31 Painting two coats with any approved colour of weather seal coat to out side surface of wall in Ground Floor**

Unit = Sqm (A/R 2006-Page No-99 item-20)

Taking output = 10Sqm

**a) Labour**

Painter Special	Each	0.54	495.00	267.30
Man Mulia	Each	0.64	345.00	220.80
				<u>488.10</u>
Add towards cost of Weather Seal Coat	Ltr	1.250	167.09	208.86
<b>b) Overhead charges @ 7.5% on (a)</b>		7.5%	696.96	<b>52.27</b>
<b>c) Contractor's Profit @ 7.5% on (a)</b>		7.5%	696.96	<b>52.27</b>



<b>Rate per 10 Sqm = a+b+c</b>			<b>801.50</b>
<b>Rate per 1 Sqm = (a+b+c)/10</b>			<b>80.15</b>
			<b>80.15</b>
Add towards Labour Cess @ 1%	1%	80.15	0.80
			80.95
		<b>Say</b>	<b>81.00</b>
<b>(A) For First Floor Weather seal coat 2 coats</b>			
Rate as above			80.95
Add extra Labour	5%	48.81	2.44
Overhead Charges on extra labour	7.5%	2.44	0.18
Contractor's Profit	7.5%	2.44	0.18
Add towards extra Labour Cess @ 1%	1%	2.80	0.03
			83.78
		<b>Say</b>	<b>83.80</b>
<b>(B) For Second Floor Weather seal coat 2 coats</b>			
Rate as above			83.78
Add extra Labour	5%	51.25	2.56
Overhead Charges on extra labour	7.5%	2.56	0.19
Contractor's Profit	7.5%	2.56	0.19
Add towards extra Labour Cess @ 1%	1%	2.94	0.03
			86.75
		<b>Say</b>	<b>86.80</b>
<b>(C) For Third Floor Weather seal coat 2 coats</b>			
Rate as above			86.75
Add extra Labour	5%	53.81	2.69
Overhead Charges on extra labour	7.5%	2.69	0.20
Contractor's Profit	7.5%	2.69	0.20
Add towards extra Labour Cess @ 1%	1%	3.09	0.03
			89.87
		<b>Say</b>	<b>89.90</b>
<b>(D) For Fourth Floor Weather seal coat 2 coats</b>			
Rate as above			89.87
Add extra Labour	5%	56.50	2.83
Overhead Charges on extra labour	7.5%	2.83	0.21
Contractor's Profit	7.5%	2.83	0.21
Add towards extra Labour Cess @ 1%	1%	3.25	0.03
			93.15
		<b>Say</b>	<b>93.20</b>
<b>(E) For Fifth Floor Weather seal coat 2 coats</b>			
Rate as above			93.15
Add extra Labour	5%	59.33	2.97
Overhead Charges on extra labour	7.5%	2.97	0.22
Contractor's Profit	7.5%	2.97	0.22
Add towards extra Labour Cess @ 1%	1%	3.41	0.03
			96.59

			<b>Say</b>	<b>96.60</b>
<b>(D) For Sixth Floor Weather seal coat 2 coats</b>				
Rate as above				96.59
Add extra Labour	5%	62.30		3.12
Overhead Charges on extra labour	7.5%	3.12		0.23
Contractor's Profit	7.5%	3.12		0.23
Add towards extra Labour Cess @ 1%	1%	3.58		0.04
				100.21
			<b>Say</b>	<b>100.20</b>
<b>(E) For Seventh Floor Weather seal coat 2 coats</b>				
Rate as above				100.21
Add extra Labour	5%	65.42		3.27
Overhead Charges on extra labour	7.5%	3.27		0.25
Contractor's Profit	7.5%	3.27		0.25
Add towards extra Labour Cess @ 1%	1%	3.77		0.04
				104.02
			<b>Say</b>	<b>104.00</b>
<b>32 Painting two coats with any approved colour of weather seal coat over a coat of Water Bound Wall cement Primer to out side surface of wall in Ground Floor</b>				
<b>Unit = Sqm</b>				
Priming 1 coat				64.68
Painting 2 coats				80.95
				145.63
			<b>Say</b>	<b>145.60</b>
<b>(A) For First Floor weather seal coat</b>				
Priming 1 coat				67.31
Painting 2 coats				83.78
				151.09
			<b>Say</b>	<b>151.10</b>
<b>(B) For Second Floor weather seal coat</b>				
Priming 1 coat				70.07
Painting 2 coats				86.75
				156.82
			<b>Say</b>	<b>156.80</b>
<b>(C) For Third Floor weather seal coat</b>				
Priming 1 coat				72.97
Painting 2 coats				89.87
				162.84
			<b>Say</b>	<b>162.80</b>
<b>(D) For Fourth Floor weather seal coat</b>				
Priming 1 coat				76.01
Painting 2 coats				93.15
				169.16
			<b>Say</b>	<b>169.20</b>

**(E) For Fifth Floor weather seal coat**

Priming 1 coat				79.20
Painting 2 coats				96.59
				<u>175.79</u>
			<b>Say</b>	<b>175.80</b>

**(D) For Sixth Floor weather seal coat**

Priming 1 coat				82.55
Painting 2 coats				100.21
				<u>182.76</u>
			<b>Say</b>	<b>182.80</b>

**(E) For Seventh Floor weather seal coat**

Priming 1 coat				86.07
Painting 2 coats				104.02
				<u>190.09</u>
			<b>Say</b>	<b>190.10</b>

**38 Finishing wall surface with water proofing cement paint of approved shade on new work two coat to give an even shade in Ground Floor**

**Unit = Sqm (A/R 2006-Page No-98 item-18)**

**Taking output = 10Sqm**

**a) Labour**

Painter Special	Each	0.22	495.00	108.90
Man Mulia	Each	0.32	345.00	110.40
				<u>219.30</u>

**b) Overhead charges @ 7.5% on (a)**

7.5% 219.30 **16.45**

**c) Contractor's Profit @ 7.5% on (a)**

7.5% 219.30 **16.45**

**Rate per 10 Sqm = a+b+c**

**252.20**

**Rate per 1 Sqm = (a+b+c)/10**

25.22

Add towards cost of Cement Paint

Ltr 0.250 70.10

17.53

**42.75**

Add towards Labour Cess @ 1%

1% 42.75

0.43

43.18

**Say 43.20**

**For First Floor (OUTSIDE) cement paint two coats**

Rate as above 43.18

Add extra Labour 5% 21.93 1.10

Overhead Charges on extra labour 7.5% 1.10 0.08

Contractor's Profit 7.5% 1.10 0.08

Add towards extra Labour Cess @ 1% 1% 1.26 0.01

44.45

**Say 44.50**

**For Second Floor (OUTSIDE) cement paint two coats**

Rate as above 44.45

Add extra Labour 5% 23.03 1.15

Overhead Charges on extra labour	7.5%	1.15	0.09
Contractor's Profit	7.5%	1.15	0.09
Add towards extra Labour Cess @ 1%	1%	1.33	0.01
			<u>45.79</u>
		<b>Say</b>	<b>45.80</b>

**For Third Floor (OUTSIDE) cement paint two coats**

Rate as above			45.79
Add extra Labour	5%	24.18	1.21
Overhead Charges on extra labour	7.5%	1.21	0.09
Contractor's Profit	7.5%	1.21	0.09
Add towards extra Labour Cess @ 1%	1%	1.39	0.01
			<u>47.19</u>
		<b>Say</b>	<b>47.20</b>

**For Fourth Floor (OUTSIDE) cement paint two coats**

Rate as above			47.19
Add extra Labour	5%	25.39	1.27
Overhead Charges on extra labour	7.5%	1.27	0.10
Contractor's Profit	7.5%	1.27	0.10
Add towards extra Labour Cess @ 1%	1%	1.47	0.01
			<u>48.67</u>
		<b>Say</b>	<b>48.70</b>

**For Fifth Floor (OUTSIDE) cement paint two coats**

Rate as above			48.67
Add extra Labour	5%	26.66	1.33
Overhead Charges on extra labour	7.5%	1.33	0.10
Contractor's Profit	7.5%	1.33	0.10
Add towards extra Labour Cess @ 1%	1%	1.53	0.02
			<u>50.22</u>
		<b>Say</b>	<b>50.20</b>

**For Sixth Floor (OUTSIDE) cement paint two coats**

Rate as above			50.22
Add extra Labour	5%	27.99	1.40
Overhead Charges on extra labour	7.5%	1.40	0.11
Contractor's Profit	7.5%	1.40	0.11
Add towards extra Labour Cess @ 1%	1%	1.62	0.02
			<u>51.86</u>
		<b>Say</b>	<b>51.90</b>

**For Seventh Floor (OUTSIDE) cement paint two coats**

Rate as above			51.86
Add extra Labour	5%	29.39	1.47
Overhead Charges on extra labour	7.5%	1.47	0.11
Contractor's Profit	7.5%	1.47	0.11
Add towards extra Labour Cess @ 1%	1%	1.69	0.02
			<u>53.57</u>
		<b>Say</b>	<b>53.60</b>

**For First Floor (Inside) cement paint two coats**

Rate as above			43.18
Add extra Labour	3%	21.93	0.66
Overhead Charges on extra labour	7.5%	0.66	0.05
Contractor's Profit	7.5%	0.66	0.05
Add towards extra Labour Cess @ 1%	1%	0.76	0.01
			<u>43.95</u>

**Say 44.00**

**For Second Floor (Inside) cement paint two coats**

Rate as above			43.95
Add extra Labour	3%	22.59	0.68
Overhead Charges on extra labour	7.5%	0.68	0.05
Contractor's Profit	7.5%	0.68	0.05
Add towards extra Labour Cess @ 1%	1%	0.78	0.01
			<u>44.74</u>

**Say 44.70**

**For Third Floor (Inside) cement paint two coats**

Rate as above			44.74
Add extra Labour	3%	23.27	0.70
Overhead Charges on extra labour	7.5%	0.70	0.05
Contractor's Profit	7.5%	0.70	0.05
Add towards extra Labour Cess @ 1%	1%	0.80	0.01
			<u>45.55</u>

**Say 45.60**

**For Fourth Floor (Inside) cement paint two coats**

Rate as above			45.55
Add extra Labour	3%	23.97	0.72
Overhead Charges on extra labour	7.5%	0.72	0.05
Contractor's Profit	7.5%	0.72	0.05
Add towards extra Labour Cess @ 1%	1%	0.82	0.01
			<u>46.38</u>

**Say 46.40**

**For Fifth Floor (Inside) cement paint two coats**

Rate as above			46.38
Add extra Labour	3%	24.69	0.74
Overhead Charges on extra labour	7.5%	0.74	0.06
Contractor's Profit	7.5%	0.74	0.06
Add towards extra Labour Cess @ 1%	1%	0.86	0.01
			<u>47.25</u>

**Say 47.30**

**For Sixth Floor (Inside) cement paint two coats**

Rate as above			47.25
Add extra Labour	3%	25.43	0.76
Overhead Charges on extra labour	7.5%	0.76	0.06
Contractor's Profit	7.5%	0.76	0.06
Add towards extra Labour Cess @ 1%	1%	0.88	0.01
			<u>48.14</u>

			<b>Say</b>	<b>48.10</b>
<b>For Seventh Floor (Inside) cement paint two coats</b>				
Rate as above				48.14
Add extra Labour	3%	26.19		0.79
Overhead Charges on extra labour	7.5%	0.79		0.06
Contractor's Profit	7.5%	0.79		0.06
Add towards extra Labour Cess @ 1%	1%	0.91		0.01
				<hr/> 49.06
			<b>Say</b>	<b>49.10</b>

**(D) For Fourth Floor Weather seal coat 2 coats**

Rate as above				89.90
Add extra Labour	5%	26.98		1.35
Overhead Charges on extra labour	7.5%	1.35		0.10
Contractor's Profit	7.5%	1.35		0.10
Add towards extra Labour Cess @ 1%	1%	1.55		0.02
				<hr/> 91.47
			<b>Say</b>	<b>91.50</b>

- 33 Supplying, fitting & fixing of 10 mm thick & size of 600x600 mm verified floor tile of matt finish with veilcraft (VC/FT) shield( Scratch free/stain free) with water absorption limit between 0.08% to 3% and conforming to IS : 15622:2006 (Group B Ib). laid on 20 mm thick cement mortar (1:4) (1 cement : 4 course sand) 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 the Engineer-in-charge (for New Work only )

Unit = Sqm (S/R 2012- Other Building item-1(B))

Taking output = 10Sqm

**a) Materials**

60cm x 60cm Vitrified Tiles	Sqm	10.000	651.08	6510.80
Sand	Cum	0.210	76.88	16.14
Cement	Qntl.	0.744	459.94	342.20
Cement for slurry	Qntl.	0.330	459.94	151.78
White Cement	Qntl.	0.076	2017.18	153.31
				<hr/> 7174.23

**b) Labour**

Mason Special	Each	2.16	495.00	1069.20
Man Mulia	Each	2.16	345.00	745.20
				<hr/> 1814.40

- c) Overhead charges @ 7.5% on (a+b) 7.5% 8988.63 **674.15**  
d) Contractor's Profit @ 7.5% on (a+b) 7.5% 8988.63 **674.15**  
e) Carriage & Royalty

60cm x 60cm Vitrified Tiles	Sqm	10.000	28.28	282.77
Sand	Cum	0.210	1395.16	292.98
Cement	Qntl.	0.744	60.46	44.98
Cement for slurry	Qntl.	0.330	60.46	19.95
White Cement	Qntl.	0.076	60.46	4.59
				<b>645.27</b>
<b>Rate per 10 Sqm = a+b+c+d+e</b>				10982.20
<b>Rate per 1 Sqm = (a+b+c+d+e)/10</b>				1098.22
Add towards Labour Cess @ 1%	1%	1098.22		10.98
				<b>1109.20</b>
			<b>Say</b>	<b>1109.20</b>
<b>(A) For First Floor</b>				
Rate as above				1109.20
Add extra Labour	5%	181.44		9.07
Overhead Charges on extra labour	7.5%	9.07		0.68
Contractor's Profit	7.5%	9.07		0.68
Add towards extra Labour Cess @ 1%	1%	10.43		0.10
				1119.73
			<b>Say</b>	<b>1119.70</b>
<b>(B) For Second Floor</b>				
Rate as above				1119.73
Add extra Labour	5%	190.51		9.53
Overhead Charges on extra labour	7.5%	9.53		0.71
Contractor's Profit	7.5%	9.53		0.71
Add towards extra Labour Cess @ 1%	1%	10.95		0.11
				1130.79
			<b>Say</b>	<b>1130.80</b>
<b>(C) For Third Floor</b>				
Rate as above				1130.79
Add extra Labour	5%	200.04		10.00
Overhead Charges on extra labour	7.5%	10.00		0.75
Contractor's Profit	7.5%	10.00		0.75
Add towards extra Labour Cess @ 1%	1%	11.50		0.12
				1142.41
			<b>Say</b>	<b>1142.40</b>
<b>(D) For Fourth Floor</b>				
Rate as above				1142.41
Add extra Labour	5%	210.04		10.50
Overhead Charges on extra labour	7.5%	10.50		0.79
Contractor's Profit	7.5%	10.50		0.79
Add towards extra Labour Cess @ 1%	1%	12.08		0.12
				1154.61
			<b>Say</b>	<b>1154.60</b>
<b>(E) For Fifth Floor</b>				
Rate as above				1154.61
Add extra Labour	5%	220.54		11.03

Overhead Charges on extra labour	7.5%	11.03	0.83
Contractor's Profit	7.5%	11.03	0.83
Add towards extra Labour Cess @ 1%	1%	12.69	0.13
			1167.43
		<b>Say</b>	<b>1167.40</b>

**(D) For Sixth Floor**

Rate as above			1167.43
Add extra Labour	5%	231.57	11.58
Overhead Charges on extra labour	7.5%	11.58	0.87
Contractor's Profit	7.5%	11.58	0.87
Add towards extra Labour Cess @ 1%	1%	13.32	0.13
			1180.88
		<b>Say</b>	<b>1180.90</b>

**(E) For Seventh Floor**

Rate as above			1180.88
Add extra Labour	5%	243.15	12.16
Overhead Charges on extra labour	7.5%	12.16	0.91
Contractor's Profit	7.5%	12.16	0.91
Add towards extra Labour Cess @ 1%	1%	13.98	0.14
			1195.00
		<b>Say</b>	<b>1195.00</b>

- 34** Supplying, fitting & fixing of **10 mm thick and size of 600x600 mm verified wall tile of** in dadoes, skirting and risers of steps of laid on 12 mm thick cement mortar (1:3) (1 cement : 3 course sand) jointed with slurry mixed with pigment to match the shades of the tiles etc. complete including cost of all materials, labour T&P etc. required for the work all complete as per direction of the Engineer-in-charge.

**Unit = Sqm (A/R 2006-Page No-90 item-17)**

**Taking output = 10Sqm**

**a) Materials**

60cm x 60cm verified	Sqm	10.000	651.08	6510.80
Sand	Cum	0.150	76.88	11.53
Cement	Qntl.	0.715	459.94	328.86
Cement for slurry	Qntl.	0.660	459.94	303.56
				0.00
				<b>7154.75</b>

**b) Labour**

Mason Special	Each	3.25	495.00	1608.75
Man Mulia	Each	3.25	345.00	1121.25
Semiskileed Mulia for rubbing	Each	7.60	385.00	0.00
				<b>2730.00</b>

**c) Overhead charges @ 7.5% on (a+b)**

7.5% 9884.75 **741.36**

**d) Contractor's Profit @ 7.5% on (a+b)**

7.5% 9884.75 **741.36**

**e) Carriage & Royalty**



60cm x 60cm verified	Sqm	10.000	28.28	282.77
Sand	Cum	0.150	1395.16	209.27
Cement	Qntl.	0.715	60.46	43.23
Cement for slurry	Qntl.	0.660	60.46	39.90
				<b>575.17</b>

**Rate per 10 Sqm = a+b+c+d+e** 11942.64

**Rate per 1 Sqm = (a+b+c+d+e)/10** 1194.26

Add towards Labour Cess @ 1% 1% 1194.26 11.94

**1206.20**

**Say 1206.20**

**(A) For First Floor verified in dadoes**

Rate as above 1206.20

Add extra Labour 5% 273.00 13.65

Overhead Charges on extra labour 7.5% 13.65 1.02

Contractor's Profit 7.5% 13.65 1.02

Add towards extra Labour Cess @ 1% 1% 15.69 0.16

1222.05

**Say 1222.10**

**(B) For Second Floor verified in dadoes**

Rate as above 1222.05

Add extra Labour 5% 286.65 14.33

Overhead Charges on extra labour 7.5% 14.33 1.07

Contractor's Profit 7.5% 14.33 1.07

Add towards extra Labour Cess @ 1% 1% 16.47 0.16

1238.68

**Say 1238.70**

**(C) For Third Floor verified in dadoes**

Rate as above 1238.68

Add extra Labour 5% 300.98 15.05

Overhead Charges on extra labour 7.5% 15.05 1.13

Contractor's Profit 7.5% 15.05 1.13

Add towards extra Labour Cess @ 1% 1% 17.31 0.17

1256.16

**Say 1256.20**

**(D) For Fourth Floor Jointless verified in dadoes**

Rate as above 1256.16

Add extra Labour 5% 316.03 15.80

Overhead Charges on extra labour 7.5% 15.80 1.19

Contractor's Profit 7.5% 15.80 1.19

Add towards extra Labour Cess @ 1% 1% 18.18 0.18

1274.52

**Say 1274.50**

**(E) For Fifth Floor Jointless verified in dadoes**

Rate as above 1274.52

Add extra Labour 5% 331.83 16.59

Overhead Charges on extra labour 7.5% 16.59 1.24

Contractor's Profit	7.5%	16.59	1.24
Add towards extra Labour Cess @ 1%	1%	19.07	0.19
			<u>1293.78</u>
		<b>Say</b>	<b>1293.80</b>

**(D) For Sixth Floor Jointless verified in dadoes**

Rate as above			1293.78
Add extra Labour	5%	348.42	17.42
Overhead Charges on extra labour	7.5%	17.42	1.31
Contractor's Profit	7.5%	17.42	1.31
Add towards extra Labour Cess @ 1%	1%	20.04	0.20
			<u>1314.02</u>
		<b>Say</b>	<b>1314.00</b>

**(E) For Seventh Floor Jointless verified in dadoes**

Rate as above			1314.02
Add extra Labour	5%	365.84	18.29
Overhead Charges on extra labour	7.5%	18.29	1.37
Contractor's Profit	7.5%	18.29	1.37
Add towards extra Labour Cess @ 1%	1%	21.03	0.21
			<u>1335.26</u>
		<b>Say</b>	<b>1335.30</b>

- 33** Supplying, fitting and fixing of Antiskid Ceramic Floor Tiles in flooring using special plain / printed series Ceramic Floor Tile of premium grade ( having minimum thickness 7 mm to 8 mm & size 300 mm x300 mm, confirming to I.S 13755 of approved quality and shade in floors, treads on steps and landings on 20 m.m thick bed of cement mortar of mix (1:4) laid in proper slope and gradient with screened & washed sharp river sand for mortar and fixing with neat white cement slurry, grouting the joints with neat white cement slurry mixed with required quantities of pigments (Tiles are to be immersed in the water for required time before use) of approved make to match the shades of the Ceramic Floor Tiles if required including cost, conveyance, loading, unloading, stacking, royalties , all taxes, cost of all Labour, Labour cess ,Sundries, T&P required for the work , Watering , Curing for required days , cleaning the flooring space manually etc. complete in all respect as directed by the Engineer-in-charge.

**Unit = Sqm (S/R 2012- Other Building item-1(B))**

**Taking output = 10Sqm**

**a) Materials**

30cm x 30cm ceramic Tiles	Sqm	10.000	450.08	4500.80
Sand	Cum	0.210	76.88	16.14
Cement	Qntl.	0.744	459.94	342.20
Cement for slurry	Qntl.	0.330	459.94	151.78
White Cement	Qntl.	0.076	2017.18	153.31
				<u>5164.23</u>

<b>b) Labour</b>				
Mason Special	Each	2.16	495.00	1069.20
Man Mulia	Each	2.16	345.00	745.20
				<b>1814.40</b>
<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	6978.63	<b>523.40</b>
<b>d) Contractor's Profit @ 7.5% on (a+b)</b>		7.5%	6978.63	<b>523.40</b>
<b>e) Carriage &amp; Royalty</b>				
30cm x 30cm ceramic Tiles	Sqm	10.000	28.28	282.77
Sand	Cum	0.210	1395.16	292.98
Cement	Qntl.	0.744	60.46	44.98
Cement for slurry	Qntl.	0.330	60.46	19.95
White Cement	Qntl.	0.076	60.46	4.59
				<b>645.27</b>
<b>Rate per 10 Sqm = a+b+c+d+e</b>				8670.70
<b>Rate per 1 Sqm = (a+b+c+d+e)/10</b>				867.07
Add towards Labour Cess @ 1%		1%	867.07	8.67
				<b>875.74</b>
			<b>Say</b>	<b>875.70</b>

**(A) For First Floor**

Rate as above				875.74
Add extra Labour		5%	181.44	9.07
Overhead Charges on extra labour		7.5%	9.07	0.68
Contractor's Profit		7.5%	9.07	0.68
Add towards extra Labour Cess @ 1%		1%	10.43	0.10
				<b>886.27</b>
			<b>Say</b>	<b>886.30</b>

**(B) For Second Floor**

Rate as above				886.27
Add extra Labour		5%	190.51	9.53
Overhead Charges on extra labour		7.5%	9.53	0.71
Contractor's Profit		7.5%	9.53	0.71
Add towards extra Labour Cess @ 1%		1%	10.95	0.11
				<b>897.33</b>
			<b>Say</b>	<b>897.30</b>

- 35** Supplying, fitting & fixing of **30cm x 20cm Ceramic wall tiles of premium grade having thickness 6.5mm to 6.7mm confirming to IS 13753** in dadoes, skirting and risers of steps laid on 12 mm thick cement mortar (1:3) (1 cement : 3 course sand) jointed with slurry mixed with pigment to match the shades of the tiles etc. complete including cost of all materials, labour T&P etc. required for the work all complete as per direction of the Engineer-in-charge

**Unit = Sqm (A/R 2006-Page No-90 item-17)**

**Taking output = 10Sqm**

**a) Materials**

30 cmx20 cm Ceramic wall tiles	Sqm	10.000	405.20	4052.00
Sand	Cum	0.150	76.88	11.53
Cement	Qntl.	0.715	459.94	328.86
Cement for slurry	Qntl.	0.660	459.94	303.56
				0.00
				<b>4695.95</b>

**b) Labour**

Mason Special	Each	3.25	495.00	1608.75
Man Mulia	Each	3.25	345.00	1121.25
Semiskileed Mulia for rubbing	Each	7.60	385.00	0.00
				<b>2730.00</b>

**c) Overhead charges @ 7.5% on (a+b)**

7.5% 7425.95 **556.95**

**d) Contractor's Profit @ 7.5% on (a+b)**

7.5% 7425.95 **556.95**

**e) Carriage & Royalty**

30 cmx20 cm Ceramic wall tiles	Sqm	10.000	28.28	282.77
Sand	Cum	0.150	1395.16	209.27
Cement	Qntl.	0.715	60.46	43.23
Cement for slurry	Qntl.	0.660	60.46	39.90
				<b>575.17</b>

**Rate per 10 Sqm = a+b+c+d+e**

9115.02

**Rate per 1 Sqm = (a+b+c+d+e)/10**

911.50

Add towards Labour Cess @ 1%

1% 911.50 **9.12**

**920.62**

**Say 920.60**

**(A) For First Ceramic wall tiles**

Rate as above				920.62
Add extra Labour	5%	273.00		13.65
Overhead Charges on extra labour	7.5%	13.65		1.02
Contractor's Profit	7.5%	13.65		1.02
Add towards extra Labour Cess @ 1%	1%	15.69		0.16
				<b>936.47</b>
				<b>Say 936.50</b>

**(B) For Second Ceramic wall tiles**

Rate as above				936.47
Add extra Labour	5%	286.65		14.33
Overhead Charges on extra labour	7.5%	14.33		1.07
Contractor's Profit	7.5%	14.33		1.07
Add towards extra Labour Cess @ 1%	1%	16.47		0.16
				<b>953.10</b>
				<b>Say 953.10</b>

**(C) For Third Ceramic wall tiles**

Rate as above				953.10
Add extra Labour	5%	300.98		15.05
Overhead Charges on extra labour	7.5%	15.05		1.13
Contractor's Profit	7.5%	15.05		1.13
Add towards extra Labour Cess @ 1%	1%	17.31		0.17
				<b>992.58</b>

			970.58
		<b>Say</b>	<b>970.60</b>
<b>(D) For Fourth Ceramic wall tiles</b>			
Rate as above			970.58
Add extra Labour	5%	316.03	15.80
Overhead Charges on extra labour	7.5%	15.80	1.19
Contractor's Profit	7.5%	15.80	1.19
Add towards extra Labour Cess @ 1%	1%	18.18	0.18
			988.94
		<b>Say</b>	<b>988.90</b>
<b>(E) For Fifth Germ free Ceramic wall tiles</b>			
Rate as above			988.94
Add extra Labour	5%	331.83	16.59
Overhead Charges on extra labour	7.5%	16.59	1.24
Contractor's Profit	7.5%	16.59	1.24
Add towards extra Labour Cess @ 1%	1%	19.07	0.19
			1008.20
		<b>Say</b>	<b>1008.20</b>
<b>(D) For Sixth Germ free Ceramic wall tiles</b>			
Rate as above			1008.20
Add extra Labour	5%	348.42	17.42
Overhead Charges on extra labour	7.5%	17.42	1.31
Contractor's Profit	7.5%	17.42	1.31
Add towards extra Labour Cess @ 1%	1%	20.04	0.20
			1028.44
		<b>Say</b>	<b>1028.40</b>
<b>(E) For Seventh Germ free Ceramic wall tiles</b>			
Rate as above			1028.44
Add extra Labour	5%	365.84	18.29
Overhead Charges on extra labour	7.5%	18.29	1.37
Contractor's Profit	7.5%	18.29	1.37
Add towards extra Labour Cess @ 1%	1%	21.03	0.21
			1049.68
		<b>Say</b>	<b>1049.70</b>

- 41 Supplying, fitting & fixing of 12 mm thick and size of 600x1200 mm Glazed Vitrified floor tiles (GVT) of matt finish(WOODEN FINISH/RUSTIC FINISH) with veilcraft (VC ) shield / forever tiles ( Scratch free/stain free) with water absorption limit between 0.08% to 3% and conforming to IS : 15622:2006 (Group B Ib). in floors laid on 20 mm thick cement mortar (1:4) (1 cement : 4 course sand) and filling joints with slurry including cost of all materials, labour T&P etc. required for the work all complete incl. rubbing as per direction of the Engineer-in-charge

**Unit = Sqm (S/R 2012- Other Building item-1(B) & AR-2006/P-89/Item-16)**

**Taking output = 10Sqm**

**a) Materials**

Kota Tiles of minimum 16mm thick & above 0.10 sqm	Sqm	10.000	1173.23	11732.30
Sand	Cum	0.210	5.25	1.10
Cement for fixing tiles	Qntl.	0.744	0.00	0.00
Cement for slurry	Qntl.	0.330	0.00	0.00
White Cement	Qntl.	0.076	0.00	0.00
				<b>11733.40</b>

**b) Labour**

Mason Special	Each	2.16	495.00	1069.20
Semi Skilled Mulia for rubbing	Each	5.50	385.00	
Man Mulia	Each	2.16	345.00	745.20
				<b>1814.40</b>

**c) Overhead charges @ 7.5% on (a+b)**

7.5% 13547.80 **1016.09**

**d) Contractor's Profit @ 7.5% on (a+b)**

7.5% 13547.80 **1016.09**

**e) Carriage & Royalty**

Kota Tiles of minimum 16mm thick & above 0.10 sqm		10.000	0.00	0.00
	Sqm			
Sand	Cum	0.210	125.00	26.25
Cement for fixing tiles	Qntl.	0.744	0.00	0.00
Cement for slurry	Qntl.	0.330	0.00	0.00
White Cement	Qntl.	0.076	0.00	0.00
				<b>26.25</b>

**Rate per 10 Sqm = a+b+c+d+e**

15606.23

**Rate per 1 Sqm = (a+b+c+d+e)/10**

1560.62

Add towards Labour Cess @ 1%

1% 1560.62 15.61

**1576.23**

**Say 1576.20**

**(A) For First Floor 600x1200 mm GVT**

Rate as above				1576.23
Add extra Labour	5%	181.44		9.07
Overhead Charges on extra labour	7.5%	9.07		0.68
Contractor's Profit	7.5%	9.07		0.68
Add towards extra Labour Cess @ 1%	1%	10.43		0.10
				1586.76
				<b>Say 1586.80</b>

**(B) For Second Floor 600x1200 mm GVT**

Rate as above				1586.76
Add extra Labour	5%	190.51		9.53
Overhead Charges on extra labour	7.5%	9.53		0.71
Contractor's Profit	7.5%	9.53		0.71
Add towards extra Labour Cess @ 1%	1%	10.95		0.11
				1597.82
				<b>Say 1597.80</b>

**(C) For Third Floor 600x1200 mm GVT**

Rate as above			1597.82
Add extra Labour	5%	200.04	10.00
Overhead Charges on extra labour	7.5%	10.00	0.75
Contractor's Profit	7.5%	10.00	0.75
Add towards extra Labour Cess @ 1%	1%	11.50	0.12
			<u>1609.44</u>
		<b>Say</b>	<b>1609.40</b>

**(A) For Fourth Floor 600x1200 mm GVT**

Rate as above			1609.44
Add extra Labour	5%	158.68	7.93
Overhead Charges on extra labour	7.5%	7.93	0.59
Contractor's Profit	7.5%	7.93	0.59
Add towards extra Labour Cess @ 1%	1%	9.11	0.09
			<u>1618.64</u>
		<b>Say</b>	<b>1618.60</b>

**(B) For Fifth Floor 600x1200 mm GVT**

Rate as above			1618.64
Add extra Labour	5%	166.61	8.33
Overhead Charges on extra labour	7.5%	8.33	0.62
Contractor's Profit	7.5%	8.33	0.62
Add towards extra Labour Cess @ 1%	1%	9.57	0.10
			<u>1628.31</u>
		<b>Say</b>	<b>1628.30</b>

**(C) For Sixth Floor 600x1200 mm GVT**

Rate as above			1628.31
Add extra Labour	5%	174.94	8.75
Overhead Charges on extra labour	7.5%	8.75	0.66
Contractor's Profit	7.5%	8.75	0.66
Add towards extra Labour Cess @ 1%	1%	10.07	0.10
			<u>1638.48</u>
		<b>Say</b>	<b>1638.50</b>

- 38** Supplying, fitting & fixing of Kota Tiles of minimum 16 mm thick Above 0.10 Sqm on 25mm thick bed of cement mortar (1:1) (1 cement : 1 course sand) jointed with neat cement slurry mixed with pigments to match the shades of the tiles including rubbing and polishing complete including cost of all materials, labour T&P etc required for the work all complete as per direction of the Engineer-in-charge.

**Unit = Sqm (A/R 2006-Page No-89 item-16)**

**Taking output = 10Sqm**

**a) Materials**

Kota Tiles of minimum 16 mm thick above 0.10 Sqm	Sqm	10.000	500.20	5002.00
Sand	Cum	0.210	5.25	1.10

Cement	Qntl.	0.744	0.00	0.00
Cement for slurry	Qntl.	0.330	0.00	0.00
White Cement	Qntl.	0.076	2017.18	153.31
				<b>5156.41</b>

**b) Labour**

Mason Special	Each	2.16	495.00	1069.20
Man Mulia	Each	2.16	345.00	745.20
				<b>1814.40</b>

**c) Overhead charges @ 7.5% on (a+b)**

7.5% 6970.81 **522.81**

**d) Contractor's Profit @ 7.5% on (a+b)**

7.5% 6970.81 **522.81**

**e) Carriage & Royalty**

Kota Tiles of minimum 16 mm thick above 0.10 Sqm		10.000	0.00	0.00
	Sqm			
Sand	Cum	0.210	125.00	26.25
Cement	Qntl.	0.744	0.00	0.00
Cement for slurry	Qntl.	0.330	0.00	0.00
White Cement	Qntl.	0.076	0.00	0.00
				<b>26.25</b>

**Rate per 10 Sqm = a+b+c+d+e** 8042.68

**Rate per 1 Sqm = (a+b+c+d+e)/10** 804.27

Add towards Labour Cess @ 1% 1% 804.27 8.04

**812.31**

**Say 812.30**

**(A) For First Floor Kota tile**

Rate as above				812.31
Add extra Labour	5%	181.44		9.07
Overhead Charges on extra labour	7.5%	9.07		0.68
Contractor's Profit	7.5%	9.07		0.68
Add towards extra Labour Cess @ 1%	1%	10.43		0.10
				<b>822.84</b>

**Say 822.80**

**(B) For Second Floor Kota tile**

Rate as above				822.84
Add extra Labour	5%	190.51		9.53
Overhead Charges on extra labour	7.5%	9.53		0.71
Contractor's Profit	7.5%	9.53		0.71
Add towards extra Labour Cess @ 1%	1%	10.95		0.11
				<b>833.90</b>

**Say 833.90**

**© For Third Floor Kota tile**

Rate as above				833.90
Add extra Labour	5%	200.04		10.00
Overhead Charges on extra labour	7.5%	10.00		0.75
Contractor's Profit	7.5%	10.00		0.75
Add towards extra Labour Cess @ 1%	1%	11.50		0.12
				<b>845.52</b>



**Say 845.50**

- 42** Supplying, fitting & fixing of Kota Tiles of minimum 16mm thick and above 0.10 sqm of approved make in dadoes laid on 12 mm thick cement mortar (1:3) (1 cement : 3 course sand) and filling joints with slurry including cost of all materials, labour T&P etc. required for the work all complete incl. rubbing as per direction of the Engineer-in-charge

**Unit = Sqm (A/R 2006-Page No-90 item-17)**

**Taking output = 10Sqm**

**a) Materials**

Kota Tiles of minimum 16mm thick & above 0.10 sqm		10.000	500.20	5002.00
	Sqm			
Sand	Cum	0.450	5.25	2.36
Cement	Qntl.	0.330	0.00	0.00
Cement for slurry	Qntl.	0.330	0.00	0.00
White cement	Qntl.	0.076	2017.18	153.31
				<b>5157.67</b>

**b) Labour**

Mason Special	Each	3.25	495.00	1608.75
Man Mulia	Each	3.25	345.00	1121.25
				<b>2730.00</b>

**c) Overhead charges @ 7.5% on (a+b)**

7.5% 7887.67 **591.58**

**d) Contractor's Profit @ 7.5% on (a+b)**

7.5% 7887.67 **591.58**

**e) Carriage & Royalty**

Kota Tiles of minimum 16mm thick & above 0.10 sqm		10.000	0.00	0.00
	Sqm			
Sand	Cum	0.450	125.00	56.25
Cement	Qntl.	0.330	0.00	0.00
Cement for slurry	Qntl.	0.330	0.00	0.00
				<b>56.25</b>

**Rate per 10 Sqm = a+b+c+d+e** 9127.08

**Rate per 1 Sqm = (a+b+c+d+e)/10** 912.71

Add towards Labour Cess @ 1% 1% 912.71 9.13

**921.84**

**Say 921.80**

**(A) For First Floor Kota Tiles in dadoes**

Rate as above				921.84
Add extra Labour	5%	273.00		13.65
Overhead Charges on extra labour	7.5%	13.65		1.02
Contractor's Profit	7.5%	13.65		1.02
Add towards extra Labour Cess @ 1%	1%	15.69		0.16
				937.69

**Say 937.70**

**(B) For Second Floor Kota Tiles in dadoes**

Rate as above			937.69
Add extra Labour	5%	286.65	14.33
Overhead Charges on extra labour	7.5%	14.33	1.07
Contractor's Profit	7.5%	14.33	1.07
Add towards extra Labour Cess @ 1%	1%	16.47	0.16
			<u>954.32</u>
		<b>Say</b>	<b>954.30</b>

**(C) For Third Floor Kota Tiles in dadoes**

Rate as above			954.32
Add extra Labour	5%	300.98	15.05
Overhead Charges on extra labour	7.5%	15.05	1.13
Contractor's Profit	7.5%	15.05	1.13
Add towards extra Labour Cess @ 1%	1%	17.31	0.17
			<u>971.80</u>
		<b>Say</b>	<b>971.80</b>

**(C) For Fourth Floor Kota Tiles in dadoes**

Rate as above			971.80
Add extra Labour	5%	316.03	15.80
Overhead Charges on extra labour	7.5%	15.80	1.19
Contractor's Profit	7.5%	15.80	1.19
Add towards extra Labour Cess @ 1%	1%	18.18	0.18
			<u>990.16</u>
		<b>Say</b>	<b>990.20</b>

**(C) For Fifth Floor Kota Tiles in dadoes**

Rate as above			990.16
Add extra Labour	5%	331.83	16.59
Overhead Charges on extra labour	7.5%	16.59	1.24
Contractor's Profit	7.5%	16.59	1.24
Add towards extra Labour Cess @ 1%	1%	19.07	0.19
			<u>1009.42</u>
		<b>Say</b>	<b>1009.40</b>

- 43** Supplying, fitting & fixing of Khandolite Tiles of minimum 16 mm thick Upto 0.06 Sqm on 25mm thick bed of cement mortar (1:1) (1 cement : 1 course sand) jointed with neat cement slurry mixed with pigments to match the shades of the tiles including rubbing and polishing complete including cost of all materials, labour T&P etc required for the work all complete as per direction of the Engineer-in-charge.

**Unit = Sqm (A/R 2006-Page No-89 item-16)**

**Taking output = 10Sqm**

**a) Materials**

Khandolite Tiles of minimum 16 mm thick above 0.06 Sqm	Sqm	10.000	324.37	3243.70
Sand	Cum	0.210	5.25	1.10

Cement	Qntl.	0.744	0.00	0.00
Cement for slurry	Qntl.	0.330	0.00	0.00
White Cement	Qntl.	0.076	2017.18	153.31
				<b>3398.11</b>
<b>b) Labour</b>				
Mason Special	Each	2.16	495.00	1069.20
Man Mulia	Each	2.16	345.00	745.20
				<b>1814.40</b>
<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	5212.51	<b>390.94</b>
<b>d) Contractor's Profit @ 7.5% on (a+b)</b>		7.5%	5212.51	<b>390.94</b>
<b>e) Carriage &amp; Royalty</b>				
Khandolite Tiles of minimum 16 mm thick above 0.06 Sqm	Sqm	10.000	0.00	0.00
Sand	Cum	0.210	125.00	26.25
Cement	Qntl.	0.744	0.00	0.00
Cement for slurry	Qntl.	0.330	0.00	0.00
White Cement	Qntl.	0.076	0.00	0.00
				<b>26.25</b>
<b>Rate per 10 Sqm = a+b+c+d+e</b>				6020.64
<b>Rate per 1 Sqm =( a+b+c+d+e)/10</b>				602.06
Add towards Labour Cess @ 1%		1%	602.06	6.02
				<b>608.08</b>
			<b>Say</b>	<b>608.10</b>
<b>(B) For First Floor Khandolite tile</b>				
Rate as above				608.08
Add extra Labour		5%	181.44	9.07
Overhead Charges on extra labour		7.5%	9.07	0.68
Contractor's Profit		7.5%	9.07	0.68
Add towards extra Labour Cess @ 1%		1%	10.43	0.10
				618.61
			<b>Say</b>	<b>618.60</b>
<b>(B) For Second Floor Khandolite tile</b>				
Rate as above				618.61
Add extra Labour		5%	190.51	9.53
Overhead Charges on extra labour		7.5%	9.53	0.71
Contractor's Profit		7.5%	9.53	0.71
Add towards extra Labour Cess @ 1%		1%	10.95	0.11
				629.67
			<b>Say</b>	<b>629.70</b>
<b>(C) For Third Floor Khandolite tile</b>				
Rate as above				629.67
Add extra Labour		5%	200.04	10.00
Overhead Charges on extra labour		7.5%	10.00	0.75
Contractor's Profit		7.5%	10.00	0.75
Add towards extra Labour Cess @ 1%		1%	11.50	0.12
				641.29

**Say            641.30**

**44** Supplying, fitting & fixing of Chequered tiles in floors of approved make laid on 20 mm thick cement mortar (1:4) (1 cement : 4 course sand) and filling joints with slurry including cost of all materials, labour T&P etc required for the work all complete as per direction of the Engineer-in-charge

**Unit = Sqm (S/R 2012- Other Building item-1(B))**

**Taking output = 10Sqm**

**a) Materials**

Chequered tiles	Sqm	10.000	578.35	5783.50
Sand	Cum	0.210	5.25	1.10
Cement	Qntl.	0.744	0.00	0.00
Cement for slurry	Qntl.	0.330	0.00	0.00
Cement for grouting	Qntl.	0.076	0.00	0.00
				<b>5784.60</b>

**b) Labour**

Mason Special	Each	2.16	495.00	1069.20
Man Mulia	Each	2.16	345.00	745.20
				<b>1814.40</b>

**c) Overhead charges @ 7.5% on (a+b)**

7.5%      7599.00      **569.93**

**d) Contractor's Profit @ 7.5% on (a+b)**

7.5%      7599.00      **569.93**

**e) Carriage & Royalty**

Chequered tiles	Sqm	10.000	0.00	0.00
Sand	Cum	0.210	125.00	26.25
Cement	Qntl.	0.744	0.00	0.00
Cement for slurry	Qntl.	0.330	0.00	0.00
Cement for grouting	Qntl.	0.076	0.00	0.00
				<b>26.25</b>

**Rate per 10 Sqm = a+b+c+d+e**

8765.11

**Rate per 1 Sqm = (a+b+c+d+e)/10**

876.51

Add towards Labour Cess @ 1%

1%      876.51      8.77

**885.28**

**Say            885.30**

**(A) For First Floor Checkered Tiles in dadoes**

Rate as above				885.28
Add extra Labour	5%	181.44		9.07
Overhead Charges on extra labour	7.5%	9.07		0.68
Contractor's Profit	7.5%	9.07		0.68
Add towards extra Labour Cess @ 1%	1%	10.43		0.10
				895.81
				<b>Say            895.80</b>

- 46 Supplying, fitting & fixing of 25mm thick **GRC Paver Block** in floors of approved make laid on 20 mm thick cement mortar (1:4) (1 cement : 4 course sand) and filling joints with slurry including cost of all materials, labour T&P etc required for the work all complete as per direction of the Engineer-in-charge

**Unit = Sqm (S/R 2012- Other Building item-1(B))**

**Taking output = 10Sqm**

**a) Materials**

GRC Paver Block	Sqm	10.000	<b>1186.16</b>	11861.60
Sand	Cum	0.210	5.25	1.10
Cement	Qntl.	0.744	0.00	0.00
Cement for slurry	Qntl.	0.330	0.00	0.00
Cement for grouting	Qntl.	0.076	0.00	0.00
				<b>11862.70</b>

**b) Labour**

Mason Special	Each	2.16	495.00	1069.20
Man Mulia	Each	2.16	345.00	745.20
				<b>1814.40</b>

**c) Overhead charges @ 7.5% on (a+b)**

7.5% 13677.10 **1025.78**

**d) Contractor's Profit @ 7.5% on (a+b)**

7.5% 13677.10 **1025.78**

**e) Carriage & Royalty**

GRC Paver Block	Sqm	10.000	0.00	0.00
Sand	Cum	0.210	125.00	26.25
Cement	Qntl.	0.744	0.00	0.00
Cement for slurry	Qntl.	0.330	0.00	0.00
Cement for grouting	Qntl.	0.076	0.00	0.00
				<b>26.25</b>

**Rate per 10 Sqm = a+b+c+d+e**

15754.91

**Rate per 1 Sqm = (a+b+c+d+e)/10**

1575.49

Add towards Labour Cess @ 1%

1% 1575.49 **15.75**

**1591.24**

**Say 1591.20**

**(A) For First Floor GRC Paver Block in Floors**

Rate as above				1591.24
Add extra Labour	5%	181.44		9.07
Overhead Charges on extra labour	7.5%	9.07		0.68
Contractor's Profit	7.5%	9.07		0.68
Add towards extra Labour Cess @ 1%	1%	10.43		0.10
				<b>1601.77</b>
				<b>Say 1601.80</b>

**(B) For Second Floor GRC Paver Block in Floors**

Rate as above				1601.77
Add extra Labour	5%	190.51		9.53
Overhead Charges on extra labour	7.5%	9.53		0.71

Contractor's Profit	7.5%	9.53	0.71
Add towards extra Labour Cess @ 1%	1%	10.95	0.11
			<hr/> 1612.83
		<b>Say</b>	<b>1612.80</b>

**(C) For Third Floor GRC Paver Block in Floors**

Rate as above			1612.83
Add extra Labour	5%	200.04	10.00
Overhead Charges on extra labour	7.5%	10.00	0.75
Contractor's Profit	7.5%	10.00	0.75
Add towards extra Labour Cess @ 1%	1%	11.50	0.12
			<hr/> 1624.45
		<b>Say</b>	<b>1624.50</b>

**(D) For Fourth Floor GRC Paver Block in Floors**

Rate as above			1624.45
Add extra Labour	5%	210.04	10.50
Overhead Charges on extra labour	7.5%	10.50	0.79
Contractor's Profit	7.5%	10.50	0.79
Add towards extra Labour Cess @ 1%	1%	12.08	0.12
			<hr/> 1636.65
		<b>Say</b>	<b>1636.70</b>

**(E) For Fifth Floor GRC Paver Block in Floors**

Rate as above			1636.65
Add extra Labour	5%	220.54	11.03
Overhead Charges on extra labour	7.5%	11.03	0.83
Contractor's Profit	7.5%	11.03	0.83
Add towards extra Labour Cess @ 1%	1%	12.69	0.13
			<hr/> 1649.47
		<b>Say</b>	<b>1649.50</b>

**(F) For Sixth Floor GRC Paver Block in Floors**

Rate as above			1649.47
Add extra Labour	5%	231.57	11.58
Overhead Charges on extra labour	7.5%	11.58	0.87
Contractor's Profit	7.5%	11.58	0.87
Add towards extra Labour Cess @ 1%	1%	13.32	0.13
			<hr/> 1662.92
		<b>Say</b>	<b>1662.90</b>

- 37 Supplying, fitting & fixing of **GRC Paver Block** of approved make laid on 12 mm thick cement mortar (1:3) (1 cement : 3 course sand) and filling joints with slurry including cost of all materials, labour T&P etc required for the work all complete as per direction of the Engineer-in-charge

**Unit = Sqm (A/R 2006-Page No-90 item-17)**

**Taking output = 10Sqm**

**a) Materials**

<b>GRC Paver Block</b>	Sqm	10.000	<b>1186.16</b>	11861.60
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Sand	Cum	0.150	76.88	11.53
Cement	Qntl.	0.715	0.00	0.00
Cement for slurry	Qntl.	0.660	0.00	0.00
				<b>11873.13</b>

**b) Labour**

Mason Special	Each	3.25	495.00	1608.75
Man Mulia	Each	3.25	345.00	1121.25
Semiskileed Mulia for rubbing	Each	7.60	385.00	0.00
				<b>2730.00</b>

**c) Overhead charges @ 7.5% on (a+b)**

7.5% 14603.13 **1095.23**

**d) Contractor's Profit @ 7.5% on (a+b)**

7.5% 14603.13 **1095.23**

**e) Carriage & Royalty**

GRC Paver Block	Sqm	10.000	0.00	0.00
Sand	Cum	0.150	125.00	18.75
Cement	Qntl.	0.715	0.00	0.00
Cement for slurry	Qntl.	0.660	0.00	0.00
				<b>18.75</b>

**Rate per 10 Sqm = a+b+c+d+e** 16812.34

**Rate per 1 Sqm = (a+b+c+d+e)/10** 1681.23

Add towards Labour Cess @ 1% 1% 1681.23 16.81

**1698.04**

**Say 1698.00**

**(A) For First Floor GRC Paver Block in Dadoes**

Rate as above				1698.04
Add extra Labour	5%	273.00		13.65
Overhead Charges on extra labour	7.5%	13.65		1.02
Contractor's Profit	7.5%	13.65		1.02
Add towards extra Labour Cess @ 1%	1%	15.69		0.16
				1713.89

**Say 1713.90**

**(B) For Second Floor GRC Paver Block in Dadoes**

Rate as above				1713.89
Add extra Labour	5%	286.65		14.33
Overhead Charges on extra labour	7.5%	14.33		1.07
Contractor's Profit	7.5%	14.33		1.07
Add towards extra Labour Cess @ 1%	1%	16.47		0.16
				1730.52

**Say 1730.50**

**(C) For Third Floor GRC Paver Block in Dadoes**

Rate as above				1730.52
Add extra Labour	5%	300.98		15.05
Overhead Charges on extra labour	7.5%	15.05		1.13
Contractor's Profit	7.5%	15.05		1.13
Add towards extra Labour Cess @ 1%	1%	17.31		0.17
				1764.15

			1748.00
		<b>Say</b>	<b>1748.00</b>
<b>(D) For Fourth Floor GRC Paver Block in Dadoes</b>			
Rate as above			1748.00
Add extra Labour	5%	316.03	15.80
Overhead Charges on extra labour	7.5%	15.80	1.19
Contractor's Profit	7.5%	15.80	1.19
Add towards extra Labour Cess @ 1%	1%	18.18	0.18
			<u>1766.36</u>
		<b>Say</b>	<b>1766.40</b>
<b>(E) For Fifth Floor GRC Paver Block in Dadoes</b>			
Rate as above			1766.36
Add extra Labour	5%	331.83	16.59
Overhead Charges on extra labour	7.5%	16.59	1.24
Contractor's Profit	7.5%	16.59	1.24
Add towards extra Labour Cess @ 1%	1%	19.07	0.19
			<u>1785.62</u>
		<b>Say</b>	<b>1785.60</b>

- 38** Supplying, fitting & fixing of Kota Tiles of minimum 16 mm thick Above 0.10 Sqm on 25mm thick bed of cement mortar (1:1) (1 cement : 1 course sand) jointed with neat cement slurry mixed with pigments to match the shades of the tiles including rubbing and polishing complete including cost of all materials, labour T&P etc required for the work all complete as per direction of the Engineer-in-charge.

**Unit = Sqm (A/R 2006-Page No-89 item-16)**

**Taking output = 10Sqm**

**a) Materials**

Kota Tiles of minimum 16 mm thick above 0.10 Sqm	Sqm	10.000	500.20	5002.00
Sand	Cum	0.130	5.25	0.68
Cement	Qntl.	1.857	0.00	0.00
Cement for slurry	Qntl.	0.440	0.00	0.00
Cement for grouting	Qntl.	0.440	0.00	0.00
				<u>5002.68</u>

**b) Labour**

Mason Special	Each	2.16	495.00	1069.20
Semiskilled Mulia for rubbing	Each	5.50	385.00	2117.50
Man Mulia	Each	2.16	345.00	745.20
				<u>3931.90</u>

- |   |      |         |               |
|---|------|---------|---------------|
| <b>c) Overhead charges @ 7.5% on (a+b)</b>    | 7.5% | 8934.58 | <b>670.09</b> |
| <b>d) Contractor's Profit @ 7.5% on (a+b)</b> | 7.5% | 8934.58 | <b>670.09</b> |
| <b>e) Carriage &amp; Royalty</b>              |      |         |               |



Kota Tiles of minimum 16 mm thick above 0.10 Sqm		10.000	0.00	0.00
	Sqm			
Sand	Cum	0.130	125.00	16.25
Cement	Qntl.	1.857	0.00	0.00
Cement for slurry	Qntl.	0.440	0.00	0.00
Cement for grouting	Qntl.	0.440	0.00	0.00
				<b>16.25</b>
<b>Rate per 10 Sqm = a+b+c+d+e</b>				10291.01
<b>Rate per 1 Sqm = ( a+b+c+d+e)/10</b>				1029.10
Add towards Labour Cess @ 1%	1%		1029.10	10.29
				<b>1039.39</b>
			<b>Say</b>	<b>1039.40</b>
<b>(A) For First Floor Kota tile</b>				
Rate as above				1039.39
Add extra Labour	5%		106.92	5.35
Overhead Charges on extra labour	7.5%		5.35	0.40
Contractor's Profit	7.5%		5.35	0.40
Add towards extra Labour Cess @ 1%	1%		6.15	0.06
				<b>1045.60</b>
			<b>Say</b>	<b>1045.60</b>
<b>(B) For Second Floor Kota Tile</b>				
Rate as above				1045.60
Add extra Labour	5%		112.27	5.61
Overhead Charges on extra labour	7.5%		5.61	0.42
Contractor's Profit	7.5%		5.61	0.42
Add towards extra Labour Cess @ 1%	1%		6.45	0.06
				<b>1052.11</b>
			<b>Say</b>	<b>1052.10</b>
<b>(C) For Third Floor Kota tile</b>				
Rate as above				1052.11
Add extra Labour	5%		117.88	5.89
Overhead Charges on extra labour	7.5%		5.89	0.44
Contractor's Profit	7.5%		5.89	0.44
Add towards extra Labour Cess @ 1%	1%		6.77	0.07
				<b>1058.95</b>
			<b>Say</b>	<b>1059.00</b>
<b>(D) For Fourth Floor Kota tile</b>				
Rate as above				1058.95
Add extra Labour	5%		123.77	6.19
Overhead Charges on extra labour	7.5%		6.19	0.46
Contractor's Profit	7.5%		6.19	0.46
Add towards extra Labour Cess @ 1%	1%		7.11	0.07
				<b>1066.13</b>
			<b>Say</b>	<b>1066.10</b>
<b>(E) For Fifth Floor Kota tile</b>				
Rate as above				1066.13

Add extra Labour	5%	129.96	6.50
Overhead Charges on extra labour	7.5%	6.50	0.49
Contractor's Profit	7.5%	6.50	0.49
Add towards extra Labour Cess @ 1%	1%	7.48	0.07
			<hr/> 1073.68
		<b>Say</b>	<b>1073.70</b>

**(E) For Sixth Floor Kota tile**

Rate as above			1073.68
Add extra Labour	5%	136.46	6.82
Overhead Charges on extra labour	7.5%	6.82	0.51
Contractor's Profit	7.5%	6.82	0.51
Add towards extra Labour Cess @ 1%	1%	7.84	0.08
			<hr/> 1081.60
		<b>Say</b>	<b>1081.60</b>

- 38** Supplying, fitting & fixing of Kota Tiles of minimum 16 mm thick above 0.10 Sqm in dados laid on 12 mm thick cement mortar (1:3) (1 cement : 3 course sand) and filling joints with slurry including cost of all materials, labour T&P etc. required for the work all complete incl. rubbing as per direction of the Engineer-in-charge

**Unit = Sqm (A/R 2006-Page No-90 item-17)**

**Taking output = 10Sqm**

**a) Materials**

Kota Tiles of minimum 16 mm thick	Sqm	10.000	500.20	5002.00
Sand	Cum	0.150	5.25	0.79
Cement	Qntl.	0.715	0.00	0.00
Cement for slurry	Qntl.	0.660	0.00	0.00
				<hr/> 5002.79

**b) Labour**

Mason Special	Each	3.25	495.00	1608.75
Semiskilled Mulia for rubbing	Each	7.60	385.00	2926.00
Man Mulia	Each	3.25	345.00	1121.25
				<hr/> 5656.00

**c) Overhead charges @ 7.5% on (a+b)**

7.5% 10658.79 **799.41**

**d) Contractor's Profit @ 7.5% on (a+b)**

7.5% 10658.79 **799.41**

**e) Carriage & Royalty**

Kota Tiles of minimum 16 mm thick	Sqm	10.000	0.00	0.00
Sand	Cum	0.150	125.00	18.75
Cement	Qntl.	0.715	0.00	0.00
Cement for slurry	Qntl.	0.660	0.00	0.00
				<hr/> 18.75

**Rate per 10 Sqm = a+b+c+d+e**

12276.36

**Rate per 1 Sqm = (a+b+c+d+e)/10**

1227.64

Add towards Labour Cess @ 1%

1% 1227.64 

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12.28

			<b>1239.92</b>
		<b>Say</b>	<b>1239.90</b>
<b>(A) For First Floor Kota Tiles in dadoos</b>			
Rate as above			1239.92
Add extra Labour	5%	160.88	8.04
Overhead Charges on extra labour	7.5%	8.04	0.60
Contractor's Profit	7.5%	8.04	0.60
Add towards extra Labour Cess @ 1%	1%	9.24	0.09
			1249.25
		<b>Say</b>	<b>1249.30</b>
<b>(B) For Second Floor Kota Tiles in dadoos</b>			
Rate as above			1249.25
Add extra Labour	5%	168.92	8.45
Overhead Charges on extra labour	7.5%	8.45	0.63
Contractor's Profit	7.5%	8.45	0.63
Add towards extra Labour Cess @ 1%	1%	9.71	0.10
			1259.06
		<b>Say</b>	<b>1259.10</b>
<b>(C) For Third Floor Kota Tiles in dadoos</b>			
Rate as above			1259.06
Add extra Labour	5%	177.37	8.87
Overhead Charges on extra labour	7.5%	8.87	0.67
Contractor's Profit	7.5%	8.87	0.67
Add towards extra Labour Cess @ 1%	1%	10.21	0.10
			1269.37
		<b>Say</b>	<b>1269.40</b>
<b>(D) For Fourth Floor Kota Tiles in dadoos</b>			
Rate as above			1269.37
Add extra Labour	5%	186.24	9.31
Overhead Charges on extra labour	7.5%	9.31	0.70
Contractor's Profit	7.5%	9.31	0.70
Add towards extra Labour Cess @ 1%	1%	10.71	0.11
			1280.19
		<b>Say</b>	<b>1280.20</b>
<b>(E) For Fifth Floor Kota Tiles in dadoos</b>			
Rate as above			1280.19
Add extra Labour	5%	195.55	9.78
Overhead Charges on extra labour	7.5%	9.78	0.73
Contractor's Profit	7.5%	9.78	0.73
Add towards extra Labour Cess @ 1%	1%	11.24	0.11
			1291.54
		<b>Say</b>	<b>1291.50</b>
<b>(E) For Sixth Floor Kota Tiles in dadoos</b>			
Rate as above			1291.54
Add extra Labour	5%	205.33	10.27
Overhead Charges on extra labour	7.5%	10.27	0.77

Contractor's Profit	7.5%	10.27	0.77
Add towards extra Labour Cess @ 1%	1%	11.81	0.12
			<hr/> 1303.47
		<b>Say</b>	<b>1303.50</b>

29

Providing fitting fixing of **false ceiling** with Aluminium anodised T section No.3215 with 2'0" center to center, L section No.1705 on 4 walls to be fixed by means of steel screw and P.V.C. plug and the Aluminium grid 2'0"x2'0" with **9 mm thick Prelaminated particle board** (Novapan standard type) (I.S.I.) suspended from ceiling including cost of all materials, labour T&P etc required for the work all complete as per direction of the Engineer-in-charge

**Unit = Sqm (S/R 2012- Other Building item-6)**

**Taking output = 14'6" x 14'6" = 210.25 sft or 19.53Sqm**

**a) Materials**

Aluminium T section No.3215 =16 x 4.41 = 70.56mtr @ 0.258g/mtr = 18.20 kg	Kg	18.20		
Perimeter Angle section No.1785 = 17.64mtr @ 0.233 kg/m = 4.11 kg	Kg	4.11		
	Kg	<hr/> 22.31		
Wastage 5%	Kg	1.12		
Total	Kg	<hr/> 23.43	619.50	14514.89
P.V.C. rawl plug	Each	42.00	7.00	294.00
9" connecting hooks with nuts and washer	Each	42.00	5.50	231.00
G.I. wire	Kg	2.00	40.00	80.00
9 mm thick Prelaminated particle board (Novapan standard type) (I.S.I.)	Sqm	20.59	0.00	0.00
65mm PVC plug	Each	50.00	0.60	30.00
Screws 50mm x 8mm	Each	50.00	0.83	41.52
Hire charges of drill machine	Day	1.50	100.00	150.00
				<b>15341.41</b>

**b) Labour**

Carpenter 1st Class	Each	5.00	495.00	2475.00
Man Mulia	Each	5.00	345.00	1725.00
				<hr/> 4200.00

**c) Overhead charges @ 7.5% on (a+b)** 7.5% 19541.41 **1465.61**

**d) Contractor's Profit @ 7.5% on (a+b)** 7.5% 19541.41 **1465.61**

**Total** 22472.63

**Rate per 1 Sqm** 1150.67

Add towards Labour Cess @ 1% 1% 1150.67 11.51

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1162.18

**Say 1162.20**

- 47 Providing fitting fixing of **false ceiling** with Aluminium anodised T section No.3215 with 2'0" center to center, L section No.1705 on 4 walls to be fixed by means of steel screw and P.V.C. plug and the Aluminium grid 2'0"x2'0" with 12mm thick Prelaminated Particle Board suspended from ceiling including cost of all materials, labour T&P etc required for the work all complete as per direction of the Engineer-in-charge

**Unit = Sqm (S/R 2012- Other Building item-6)**

**Taking output = 14'6" x 14'6" = 210.25 sft or 19.53Sqm**

**a) Materials**

Aluminium T section No.3215 =16 x 4.41 = 70.56mtr @ 0.258g/mtr = 18.20 kg	Kg	18.20		
Perimeter Angle section No.1785 = 17.64mtr @ 0.233 kg/m = 4.11 kg	Kg	4.11		
	Kg	<u>22.31</u>		
Wastage 5%	Kg	1.12		
<b>Total</b>	Kg	23.43	619.50	14514.89
P.V.C. rawl plug	Each	42.00	7.00	294.00
9" connecting hooks with nuts and washer	Each	42.00	5.50	231.00
G.I. wire	Kg	2.00	40.00	80.00
12mm thick Prelaminated Particle Board	Sqm	20.59	634.45	13063.33
65mm PVC plug	Each	50.00	0.60	30.00
Screws 50mm x 8mm	Each	50.00	0.83	41.52
Hire charges of drill machine	Day	1.50	100.00	150.00
				<b>28404.74</b>

**b) Labour**

Carpenter 1st Class	Each	5.00	495.00	2475.00
Man Mulia	Each	5.00	345.00	1725.00
				<u>4200.00</u>

**c) Overhead charges @ 7.5% on (a+b)** 7.5% 32604.74 **2445.36**

**d) Contractor's Profit @ 7.5% on (a+b)** 7.5% 32604.74 **2445.36**

**Total** 37495.46

**Rate per 1 Sqm** 1919.89

Add towards Labour Cess @ 1% 1% 1919.89 19.20

**1939.09**

**Say 1939.10**

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

Unit = Kg (S/R 2012- Other Building item-11) @ 10.4785 Kg/Rm

Taking output = 3.26 Mtr = 34.16 Kg.

a) Materials

Raling 50mm outer dia of 2mm thick 3.26 mtr @ 3.50kg/mtr = 1.41 Kg	Kg	11.41	204.46	2332.89
Balustrade of size 32mm x 32mm x 2mm (4 x 0.90m) =3.60 mtr @ 1.70kg/mtr = 6.12 Kg	Kg	6.12	218.40	1336.61
Stainless squre pipe of size 32mm x32mm x2mm in 3 rows( 3x3.26m) =9.78 mrt @ 1.70kg/mtr = 16.63 Kg	Kg	16.63	218.40	3631.99
Fabrication	Kg	34.16	9.62	328.62
Buffing, Polishing etc. @ 2%	Day	2%	7301.49	146.03
				<b>7776.14</b>
<b>b) Labour</b>				
High Skilled Labour	Each	0.89	495.00	440.55
Semi Skilled Labour	Each	0.89	385.00	342.65
				<b>783.20</b>
<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	8559.34	<b>641.95</b>
<b>d) Contractor's Profit @ 7.5% on (a+b)</b>		7.5%	8559.34	<b>641.95</b>
<b>Rate per 34.16 Kg. = a+b+c+d</b>				9843.24
<b>Rate per 1 kg. =( a+b+c+d)/34.16</b>				288.15
Add towards Labour Cess @ 1%		1%	288.15	2.88
				<b>291.03</b>
			<b>Say</b>	<b>291.00</b>

- 40 Supplying Fitting, fixing up fully glazed aluminium framed window (sliding type) made up aluminium section 9778 as window frame, section 4095, 4096 and 9777, 3994 as shutter frame with 5mm black glass as panel fitted with rubber beading including locking arrangement including all fitting including cost of all materials, all taxes, labour, T&P excluding cost of glass etc. complete as per direction of the Engineer-in-charge

Unit = Kg (S/R 2012- Other Building item-7)

Taking output=4'0"x4'0" = 16Sft or 1.49 Sqm=7.28Kg. @ 4.8859 Kg/sqm

a) Materials

AL section Bottom frame No 4095 = 1.2m @ 0.875kg/m	Kg	1.05000		
AL section Top & side frame No 4096 = 3.6m @ 0.747kg/m	Kg	2.68920		
Inter lock AL section No 9778 = 2.4m @ 0.609kg/m	Kg	1.46160		
Vertical Shutter Section No 3994 = 2.4m @ 0.379kg/m	Kg	0.90960		
Horizontal Shutter Section No 9777 = 2.4m @ 0.489kg/m	Kg	1.17360		
	Kg	<u>7.28400</u>		
Wastage 5%	Kg	0.36420		
	Kg	<u>7.64820</u>		
	Say Kg	7.65	619.50	4739.18
Pvc plug	Each	8.00	1.50	12.00
Al screws of different size	L.S			30.00
U rubber beading	Mtr.	9.75	15.00	146.25
Window pile	Mtr.	7.50	10.00	75.00
Al wheel runner	Each	8.00	25.00	200.00
Handle with lock	Each	2.00	40.00	80.00
Hire charge of drills machine	Day	1.00	100.00	100.00
				<b>5382.43</b>
<b>b) Labour</b>				
Carpenter 1st Class	Each	0.50	495.00	247.50
Fitter 2nd Class	Each	0.50	435.00	217.50
Helper to Carpenter	Each	1.50	385.00	577.50
Mulia	Each	1.50	345.00	517.50
				<u>1560.00</u>
<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	6942.43	<b>520.68</b>
<b>d) Contractor's Profit @ 7.5% on (a+b)</b>		7.5%	6942.43	<b>520.68</b>
<b>Rate per 7.28 Kg. = a+b+c+d</b>				7983.79
<b>Rate per 1 kg. =( a+b+c+d)/7.28</b>				1096.67
Add towards Labour Cess @ 1%		1%	1096.67	10.97
				<u>1107.64</u>
	<b>Say</b>			<b>1107.60</b>

- 41 Dressed seasoned sal wood work framed and fixed (wrought and put up) in frames of doors, windows & ventilabours

Unit = Cum (A/R 2006-Page No-132 item-2)

Taking output = 0.028 Cum

**a) Materials**

Sal wood scantling sawn	Cum	0.028	53035.75	1485.00
				<u>1485.00</u>

**b) Labour**

Carpenter Special	Each	0.50	495.00	247.50
Man Mulia	Each	0.50	345.00	172.50

				<b>420.00</b>
c) Overhead charges @ 7.5% on (a+b)		7.5%	1905.00	<b>142.88</b>
d) Contractor's Profit @ 7.5% on (a+b)		7.5%	1905.00	<b>142.88</b>
e) Carriage of wood @ 169.00/1.25 cum	Cum	0.028	135.20	3.79
				<b>3.79</b>
<b>Rate per 0.028 Cum = a+b+c+d+e</b>				2194.55
<b>Rate per 1 Cum = (a+b+c+d+e)/0.028</b>				78376.79
Add towards Labour Cess @ 1%		1%	78376.79	783.77
				<b>79160.56</b>
			<b>Say</b>	<b>79160.60</b>

- 52 32mm piasal wood or local Teak wood panelled shutters moulded panels with all labour, iron fittings, and wooden hinged cleats etc fitted and fixed complete in all respect

Unit = Sqm (A/R 2006-Page No-132 item-3)

Taking output = 1.88 Sqm

a) Materials

Piasal wood planks for shutters	Cum	0.06656	74369.67	4950.05
Wooden hinged cleats	Each	2.00	12.50	25.00
				<b>4975.05</b>

b) Labour

Making Shutters

Carpenter Special =2 nos. x Rs. 205.00 =Rs.410.00

Helper to Carpenter= 2 nos. x Rs.170.00=Rs.340.00

Rs. 750.00

	Sqm	1.88	Rs. 750.00	1410.00
<u>Fixing Shutters</u>				
Carpenter 2nd Class	Each	1.00	435.00	435.00
Man Mulia	Each	1.00	345.00	345.00
				<b>2190.00</b>

c) Overhead charges @ 7.5% on (a+b)		7.5%	7165.05	<b>537.38</b>
d) Contractor's Profit @ 7.5% on (a+b)		7.5%	7165.05	<b>537.38</b>
e) Carriage of wood @ 147.00/1.25 cum	Cum	0.06656	117.60	7.83
				<b>7.83</b>

Rate per 1.88 Sqm = a+b+c+d+e 8247.64

Rate per 1 Sqm = (a+b+c+d+e)/1.88 **4387.04**

e) Fitting & Fixing of Iron Materials

Butt Hinges 75mm	Each	6	12.10	72.60
Handle 125mm	Each	2	35.15	70.30
Tower Bolt 250mm	Each	2	72.31	144.62
Aldrop 250mm	Each	2	0.00	0.00



Screw 12mm x4mm for Hinges 6 Nos.	Each	48	0.34	16.51
Screw 12mm x 4mm for Tower Bolts 2 Nos.	Each	20	0.34	6.88
Screw 50mm x 8mm for Aldrop 2 Nos.	Each	32	0.83	26.57
Rate per 1.88 Sqm				<u>337.48</u>
<b>Rate per 1 Sqm</b>				179.51
<b>Total Rate per 1 Sqm</b>	4387.04	+	179.51	4566.55
Add towards Labour Cess @ 1%		1%	4566.55	<u>45.67</u>
				<b>4612.22</b>
			<b>Say</b>	<b>4612.20</b>

- 42 Supplying and Fixing of M.S. Grills, M.S.Doors, M.S. Gate etc including cost,conveyance of all materials,priming,and labour for fitting fixing etc.complete as per the instruction of Engineer-in-Charge

**Unit = Kg.**

**Taking output = 1 Kg.**

Cost of Grill as per EPM Rate	kg	1.00	55	55.00
Labour for fixing-Taking 3 kg/Sft i.e 32.28 kg/sqm as per S/R-2006 item-6	sqm	67.40	32.28	<u>2.09</u>
			Total Rs	57.09
Overhead charges @ 7.5% on (a+b)		7.5%	57.09	
Contracor's Profit @ 7.5% on (a+b)		7.5%	57.09	4.28
Carriage	kg		247.87	0.25
				61.62
Add towards Labour Cess @ 1%		1%	61.62	<u>0.62</u>
				<b>62.24</b>
			<b>Say</b>	<b>62.20</b>

- 54 Providing 12 mm thick expansion jointboard

Taking output = 12m x300mm deep=3.6sqm

Cost of material	3.600	sqm	0.00	-
Labour for fitting				
Mate	0.01	Nos	385.00	3.85
Mulia	0.20		345.00	69.00
Mulia skilled	0.10	Nos	435.00	43.50
				116.35
Cost per 1 sqm				32.32
Overhead charges @ 7.5% on (a+b)		7.5%	32.32	2.42
Contracor's Profit @ 7.5% on (a+b)		7.5%	32.32	<u>2.42</u>
				37.16
Add towards Labour Cess @ 1%		1%	37.16	<u>0.37</u>
				<b>37.53</b>
			<b>Say</b>	<b>37.50</b>

- 55 Cement washing 1coat (Per 1 Sqm)

**Unit = Sqm (A/R 2006-Page No-113 item-40)**

**Data for 93 Sqm**

**a) Materials**

Cement	Qtl	1.001	0.00	0.00
				<b>0.00</b>
<b>b) Labour</b>				
Painter 2nd Class	Each	0.75	435.00	326.25
Man Mulia	Each	0.55	345.00	189.75
				<b>516.00</b>
<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	516.00	<b>38.70</b>
<b>d) Contracor's Profit @ 7.5% on (a+b)</b>		7.5%	516.00	<b>38.70</b>
<b>Rate per 93 Sqm = a+b+c+d</b>				593.40
<b>Rate per 1 Sqm = (a+b+c+d)/93</b>				6.38
Add towards Labour Cess @ 1%		1%	6.38	0.06
				<b>6.44</b>
			<b>Say</b>	<b>6.40</b>
<b>(A) For First Floor (OUTSIDE)</b>				
Rate as above				6.44
Add extra Labour		5%	5.55	0.28
Overhead Charges on extra labour		7.5%	0.28	0.02
Contractor's Profit		7.5%	0.28	0.02
Add towards extra Labour Cess @ 1%		1%	0.32	0.00
				6.76
			<b>Say</b>	<b>6.80</b>
<b>(B) For Second Floor</b>				
Rate as above				6.76
Add extra Labour		5%	5.83	0.29
Overhead Charges on extra labour		7.5%	0.29	0.02
Contractor's Profit		7.5%	0.29	0.02
Add towards extra Labour Cess @ 1%		1%	0.33	0.00
				7.09
			<b>Say</b>	<b>7.10</b>
<b>(C) For Third Floor</b>				
Rate as above				7.09
Add extra Labour		5%	6.12	0.31
Overhead Charges on extra labour		7.5%	0.31	0.02
Contractor's Profit		7.5%	0.31	0.02
Add towards extra Labour Cess @ 1%		1%	0.35	0.00
				7.44
			<b>Say</b>	<b>7.40</b>
<b>(C) For Fourth Floor</b>				
Rate as above				7.44
Add extra Labour		5%	6.43	0.32
Overhead Charges on extra labour		7.5%	0.32	0.02
Contractor's Profit		7.5%	0.32	0.02
Add towards extra Labour Cess @ 1%		1%	0.36	0.00
				7.80
			<b>Say</b>	<b>7.80</b>
<b>(C) For Fifth Floor</b>				

Rate as above			7.80
Add extra Labour	5%	6.75	0.34
Overhead Charges on extra labour	7.5%	0.34	0.03
Contractor's Profit	7.5%	0.34	0.03
Add towards extra Labour Cess @ 1%	1%	0.40	0.00
			<u>8.20</u>
		<b>Say</b>	<b>8.20</b>
<b>(A) For First Floor (INSIDE)</b>			
Rate as above			6.44
Add extra Labour	3%	5.55	0.17
Overhead Charges on extra labour	7.5%	0.17	0.01
Contractor's Profit	7.5%	0.17	0.01
Add towards extra Labour Cess @ 1%	1%	0.19	0.00
			<u>6.63</u>
		<b>Say</b>	<b>6.60</b>
<b>(B) For Second Floor</b>			
Rate as above			6.63
Add extra Labour	3%	5.72	0.17
Overhead Charges on extra labour	7.5%	0.17	0.01
Contractor's Profit	7.5%	0.17	0.01
Add towards extra Labour Cess @ 1%	1%	0.19	0.00
			<u>6.82</u>
		<b>Say</b>	<b>6.80</b>
<b>(C) For Third Floor</b>			
Rate as above			6.82
Add extra Labour	3%	5.89	0.18
Overhead Charges on extra labour	7.5%	0.18	0.01
Contractor's Profit	7.5%	0.18	0.01
Add towards extra Labour Cess @ 1%	1%	0.20	0.00
			<u>7.02</u>
		<b>Say</b>	<b>7.00</b>
<b>(C) For Fourth Floor</b>			
Rate as above			7.02
Add extra Labour	3%	6.07	0.18
Overhead Charges on extra labour	7.5%	0.18	0.01
Contractor's Profit	7.5%	0.18	0.01
Add towards extra Labour Cess @ 1%	1%	0.20	0.00
			<u>7.22</u>
		<b>Say</b>	<b>7.20</b>
<b>(C) For Fifth Floor</b>			
Rate as above			7.22
Add extra Labour	3%	6.25	0.19
Overhead Charges on extra labour	7.5%	0.19	0.01
Contractor's Profit	7.5%	0.19	0.01
Add towards extra Labour Cess @ 1%	1%	0.21	0.00
			<u>7.43</u>

			<b>Say</b>	<b>7.40</b>
<b>(C) For Sixth Floor</b>				
Rate as above				7.43
Add extra Labour	3%	6.44		0.19
Overhead Charges on extra labour	7.5%	0.19		0.01
Contractor's Profit	7.5%	0.19		0.01
Add towards extra Labour Cess @ 1%	1%	0.21		0.00
				7.64
			<b>Say</b>	<b>7.60</b>
<b>(C) For Seventh Floor</b>				
Rate as above				7.64
Add extra Labour	3%	6.63		0.20
Overhead Charges on extra labour	7.5%	0.20		0.02
Contractor's Profit	7.5%	0.20		0.02
Add towards extra Labour Cess @ 1%	1%	0.24		0.00
				7.88
			<b>Say</b>	<b>7.90</b>

- 43 Supplying, fitting & fixing of Granite Tiles of minimum Above 0.40 sqm. (20mm thick) of approved make in floors laid on 20 mm thick cement mortar (1:4) (1 cement : 4 course sand) and filling joints with slurry including cost of all materials, labour T&P etc. required for the work all complete incl. rubbing as per direction of the Engineer-in-charge

**Unit = Sqm (S/R 2012- Other Building item-1(B) & AR-2006/P-89/Item-16)**

**Taking output = 10Sqm**

**a) Materials**

Granite Tiles of minimum 16mm thick & above 0.10 sqm	Sqm	10.000	2098.83	20988.30
Sand	Cum	0.210	76.88	16.14
Cement for fixing tiles	Qntl.	0.744	459.94	342.20
Cement for slurry	Qntl.	0.330	459.94	151.78
Cement for grouting	Qntl.	0.076	459.94	34.96
				<b>21533.38</b>

**b) Labour**

Mason Special	Each	2.16	495.00	1069.20
Man Mulia	Each	2.16	345.00	745.20
				<b>1814.40</b>

**c) Overhead charges @ 7.5% on (a+b)**

7.5%      23347.78      **1751.08**

**d) Contractor's Profit @ 7.5% on (a+b)**

7.5%      23347.78      **1751.08**

**e) Carriage & Royalty**

Granite Tiles of minimum 16mm thick & above 0.10 sqm	Sqm	10.000	28.28	282.77
Sand	Cum	0.210	1395.16	292.98
Cement for fixing tiles	Qntl.	0.744	60.46	44.98

Cement for slurry	Qntl.	0.330	60.46	19.95
Cement for grouting	Qntl.	0.076	60.46	4.59
				<b>645.27</b>
<b>Rate per 10 Sqm = a+b+c+d+e</b>				27495.21
<b>Rate per 1 Sqm = ( a+b+c+d+e)/10</b>				2749.52
Add towards Labour Cess @ 1%		1%	2749.52	27.50
				<b>2777.02</b>
			<b>Say</b>	<b>2777.00</b>
<b>(A) For First Floor Granite Tiles in floors</b>				
Rate as above				2777.02
Add extra Labour		5%	181.44	9.07
Overhead Charges on extra labour		7.5%	9.07	0.68
Contractor's Profit		7.5%	9.07	0.68
Add towards extra Labour Cess @ 1%		1%	10.43	0.10
				2787.55
			<b>Say</b>	<b>2787.60</b>
<b>(B) For Second Floor Granite Tiles in floors</b>				
Rate as above				2787.55
Add extra Labour		5%	190.51	9.53
Overhead Charges on extra labour		7.5%	9.53	0.71
Contractor's Profit		7.5%	9.53	0.71
Add towards extra Labour Cess @ 1%		1%	10.95	0.11
				2798.61
			<b>Say</b>	<b>2798.60</b>
<b>(C) For Third Floor Granite Tiles in floors</b>				
Rate as above				2798.61
Add extra Labour		5%	200.04	10.00
Overhead Charges on extra labour		7.5%	10.00	0.75
Contractor's Profit		7.5%	10.00	0.75
Add towards extra Labour Cess @ 1%		1%	11.50	0.12
				2810.23
			<b>Say</b>	<b>2810.20</b>
<b>(D) For Fourth Floor Granite Tiles in floors</b>				
Rate as above				2810.23
Add extra Labour		5%	210.04	10.50
Overhead Charges on extra labour		7.5%	10.50	0.79
Contractor's Profit		7.5%	10.50	0.79
Add towards extra Labour Cess @ 1%		1%	12.08	0.12
				2822.43
			<b>Say</b>	<b>2822.40</b>
<b>(C) For Fifth Floor Granite Tiles in floors</b>				
Rate as above				2822.43
Add extra Labour		5%	220.54	11.03
Overhead Charges on extra labour		7.5%	11.03	0.83
Contractor's Profit		7.5%	11.03	0.83
Add towards extra Labour Cess @ 1%		1%	12.69	0.13
				2822.43

			2835.25
		<b>Say</b>	<b>2835.30</b>
<b>(B) For Sixth Floor Granite Tiles in floors</b>			
Rate as above			2835.25
Add extra Labour	5%	231.57	11.58
Overhead Charges on extra labour	7.5%	11.58	0.87
Contractor's Profit	7.5%	11.58	0.87
Add towards extra Labour Cess @ 1%	1%	13.32	0.13
			2848.70
		<b>Say</b>	<b>2848.70</b>
<b>(C) For Seventh Floor Granite Tiles in floors</b>			
Rate as above			2848.70
Add extra Labour	5%	243.15	12.16
Overhead Charges on extra labour	7.5%	12.16	0.91
Contractor's Profit	7.5%	12.16	0.91
Add towards extra Labour Cess @ 1%	1%	13.98	0.14
			2862.82
		<b>Say</b>	<b>2862.80</b>

- 57 Supplying, fitting & fixing of Granite Tiles of minimum Above 0.10 Sqm & up to 0.4 sqm (10mm. thick) of approved make in dadoes laid on 12 mm thick cement mortar (1:3) (1 cement : 3 course sand) and filling joints with slurry including cost of all materials, labour T&P etc. required for the work all complete incl. rubbing as per direction of the Engineer-in-charge

**Unit = Sqm (A/R 2006-Page No-90 item-17)**

**Taking output = 10Sqm**

**a) Materials**

Granite Tiles of minimum 16mm thick & above 0.10 sqm	Sqm	10.000	1328.07	13280.70
Sand	Cum	0.150	76.88	11.53
Cement	Qntl.	0.715	459.94	328.86
Cement for slurry	Qntl.	0.660	459.94	303.56
				0.00
				<b>13924.65</b>

**b) Labour**

Mason Special	Each	3.25	495.00	1608.75
Man Mulia	Each	3.25	345.00	1121.25
Semiskileed Mulia for rubbing	Each	7.60	385.00	
				<b>2730.00</b>

**c) Overhead charges @ 7.5% on (a+b)**

7.5%    16654.65    **1249.10**

**d) Contractor's Profit @ 7.5% on (a+b)**

7.5%    16654.65    **1249.10**

**e) Carriage & Royalty**

Granite Tiles of minimum 16mm thick & above 0.10 sqm	Sqm	10.000	28.28	282.77
--	-----	--------	-------	--------

Sand	Cum	0.150	1395.16	209.27
Cement	Qntl.	0.715	60.46	43.23
Cement for slurry	Qntl.	0.660	60.46	39.90
				<u>575.17</u>

**Rate per 10 Sqm = a+b+c+d+e** 19728.02

**Rate per 1 Sqm = (a+b+c+d+e)/10** 1972.80

Add towards Labour Cess @ 1% 1% 1972.80 19.73

**1992.53**

**Say 1992.50**

**(A) For First Floor Granite Tiles in dadoos**

Rate as above 1992.53

Add extra Labour 5% 273.00 13.65

Overhead Charges on extra labour 7.5% 13.65 1.02

Contractor's Profit 7.5% 13.65 1.02

Add towards extra Labour Cess @ 1% 1% 15.69 0.16

2008.38

**Say 2008.40**

**(B) For Second Floor Granite Tiles in dadoos**

Rate as above 2008.38

Add extra Labour 5% 286.65 14.33

Overhead Charges on extra labour 7.5% 14.33 1.07

Contractor's Profit 7.5% 14.33 1.07

Add towards extra Labour Cess @ 1% 1% 16.47 0.16

2025.01

**Say 2025.00**

**(C) For Third Floor Granite Tiles in dadoos**

Rate as above 2025.01

Add extra Labour 5% 300.98 15.05

Overhead Charges on extra labour 7.5% 15.05 1.13

Contractor's Profit 7.5% 15.05 1.13

Add towards extra Labour Cess @ 1% 1% 17.31 0.17

2042.49

**Say 2042.50**

**(C) For Fourth Floor Granite Tiles in dadoos**

Rate as above 2042.49

Add extra Labour 5% 316.03 15.80

Overhead Charges on extra labour 7.5% 15.80 1.19

Contractor's Profit 7.5% 15.80 1.19

Add towards extra Labour Cess @ 1% 1% 18.18 0.18

2060.85

**Say 2060.90**

**(C) For Fifth Floor Granite Tiles in dadoos**

Rate as above 2060.85

Add extra Labour 5% 331.83 16.59

Overhead Charges on extra labour 7.5% 16.59 1.24

Contractor's Profit 7.5% 16.59 1.24

Add towards extra Labour Cess @ 1%	1%	19.07	0.19
			2080.11
		<b>Say</b>	<b>2080.10</b>
<b>(C) For Sixth Floor Granite Tiles in dadoos</b>			
Rate as above			2080.11
Add extra Labour	5%	348.42	17.42
Overhead Charges on extra labour	7.5%	17.42	1.31
Contractor's Profit	7.5%	17.42	1.31
Add towards extra Labour Cess @ 1%	1%	20.04	0.20
			2100.35
		<b>Say</b>	<b>2100.40</b>
<b>(C) For Seventh Floor Granite Tiles in dadoos</b>			
Rate as above			2100.35
Add extra Labour	5%	365.84	18.29
Overhead Charges on extra labour	7.5%	18.29	1.37
Contractor's Profit	7.5%	18.29	1.37
Add towards extra Labour Cess @ 1%	1%	21.03	0.21
			2121.59
		<b>Say</b>	<b>2121.60</b>
58 Providing and fixing of <b>A.C.C sheet</b> on roof drilling holes fixing wind ties including fixing of Ridges, with cost of all labour ,all materials etc. complete.			
Ref A/R-2006, Page-126, item-33			
Unit-1 sqm (details for 9.3 sqm )			
a) Materials			
Cost of A C C. sheet Considering 10% over lapping	1 sqm	10.23	333.12
Cost of ' L ' or ' J ' hook-12 nos @ 8 nos per kg	1 kg	1.50	173.81
			<b>3668.54</b>
b) Labours			
Carpenter Special	each	1.00	495.00
Man Mulia	each	3.00	345.00
			<b>1530.00</b>
<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	5198.54
<b>d) Contractor's Profit @ 7.5% on (a+b)</b>		7.5%	5198.54
			5978.32
Rate per 9.3 sqm in G. floor			642.83
Rate per 1 sqm in G. floor			642.83
Add towards Labour Cess @ 1%	1%	642.83	6.43
			<b>649.26</b>
			<b>649.30</b>
59 Plain cement concrete (1:3:6) nominal mix in foundation as per Drawing and Technical Specification			
<b>Unit = Cum (A/R 2006-Page No-43 item-3)</b>			
<b>Taking output = 1 cum</b>			
<b>a) Materials</b>			



40mm size H.G.C.B metal	Cum	0.96	19.50	18.72
Sand (screened & washed)	Cum	0.48	5.25	2.52
Cement	Qntl	2.29	0.00	0.00
				<b>21.24</b>
<b>b) Labour</b>				
Mason 2nd class	Each	0.18	435.00	78.30
Man Mulia	Each	2.50	345.00	862.50
Woman Mulia	Each	1.40	345.00	483.00
				<b>1423.80</b>
<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	1445.04	<b>108.38</b>
<b>d) Contracor's Profit @ 7.5% on (a+b)</b>		7.5%	1445.04	<b>108.38</b>
<b>e) Carriage &amp; Royalty</b>				
40mm size H.G.C.B metal	Cum	0.96	100.00	96.00
Sand (screened & washed)	Cum	0.48	125.00	60.00
Cement	Qntl	2.29	0.00	0.00
				<b>156.00</b>
<b>Rate per Cum = a+b+c+d+e</b>				1817.80
Add towards Labour Cess @ 1%		1%	1817.80	18.18
				<b>1835.98</b>
			<b>Say</b>	<b>1836.00</b>
<b>(A) For First Floor P.C.C(1:3:6)</b>				
Rate as above				1835.98
Add extra Labour		15%	1423.80	213.57
Overhead Charges on extra labour		7.5%	213.57	16.02
Contractor's Profit		7.5%	213.57	16.02
Add towards extra Labour Cess @ 1%		1%	245.61	2.46
				2084.05
			<b>Say</b>	<b>2084.10</b>
<b>(B) For Second Floor P.C.C(1:3:6)</b>				
Rate as above				2084.05
Add extra Labour		15%	1637.37	245.61
Overhead Charges on extra labour		7.5%	245.61	18.42
Contractor's Profit		7.5%	245.61	18.42
Add towards extra Labour Cess @ 1%		1%	282.45	2.82
				2369.32
			<b>Say</b>	<b>2369.30</b>
<b>(C) For Third Floor P.C.C(1:3:6)</b>				
Rate as above				2369.32
Add extra Labour		15%	1882.98	282.45
Overhead Charges on extra labour		7.5%	282.45	21.18
Contractor's Profit		7.5%	282.45	21.18
Add towards extra Labour Cess @ 1%		1%	324.81	3.25

				2697.38
			<b>Say</b>	<b>2697.40</b>
<b>(C) For Fourth Floor P.C.C(1:3:6)</b>				
Rate as above				2697.38
Add extra Labour		15%	2165.43	324.81
Overhead Charges on extra labour		7.5%	324.81	24.36
Contractor's Profit		7.5%	324.81	24.36
Add towards extra Labour Cess @ 1%		1%	373.53	3.74
				3074.65
			<b>Say</b>	<b>3074.70</b>
<b>(C) For Fifth Floor P.C.C(1:3:6)</b>				
Rate as above				3074.65
Add extra Labour		15%	2490.24	373.54
Overhead Charges on extra labour		7.5%	373.54	28.02
Contractor's Profit		7.5%	373.54	28.02
Add towards extra Labour Cess @ 1%		1%	429.58	4.30
				3508.53
			<b>Say</b>	<b>3508.50</b>
<b>12 R.C.C. work with C.C (1:3:6) black hard granite (crusher broken) stone metal of 4cm size including hoisting and laying in <u>False column in Ground Floor</u></b>				
<b>Unit = cum</b>				
Rate as above				1835.98
Add towards Centering & Shuttering	Sqm	8.00	1010.45	8083.60
				9919.58
			<b>Say</b>	<b>9919.60</b>
<b>(A) For First Floor False column</b>				
Rate as above				2084.05
Add towards Centering & Shuttering	Sqm	8.00	1212.54	9700.32
				11784.37
			<b>Say</b>	<b>11784.40</b>
<b>(B) For Second Floor False column</b>				
Rate as above				2369.32
Add towards Centering & Shuttering	Sqm	8.00	1455.05	11640.40
				14009.72
			<b>Say</b>	<b>14009.70</b>
<b>(C) For Third Floor False column</b>				
Rate as above				2697.38
Add towards Centering & Shuttering	Sqm	8.00	1746.06	13968.48
				16665.86
			<b>Say</b>	<b>16665.90</b>
<b>(C) For Fourth Floor False column</b>				

	Rate as above				3074.65
	Add towards Centering & Shuttering	Sqm	8.00	2095.27	16762.16
					19836.81
				<b>Say</b>	<b>19836.80</b>
<b>(C) For Fifth Floor False column</b>					
	Rate as above				3508.53
	Add towards Centering & Shuttering	Sqm	8.00	2514.32	20114.56
					23623.09
				<b>Say</b>	<b>23623.10</b>
60	Dismantling brick or stone masonry in lime or cement mortar above 3 mtr height including stacking the useful materials for reuse and removing the debris within 50m lead.				
	<u>Data for 2.83 cum</u>				
	a) Labour				
	Man & Women mulia	Nos	8.50	345.00	2932.50
	<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	2932.50	<b>219.94</b>
	<b>d) Contracor's Profit @ 7.5% on (a+b)</b>		7.5%	2932.50	<b>219.94</b>
	Rate for 2.83 cum				3372.38
	Rate per cum				1191.65
	<b>(i) Ground Floor</b>				
	Add Labour Cess 1%				11.92
					1203.57
					<b>1203.60</b>
	<b>(ii) First Floor</b>				
	Rate as per G.F.				1203.57
	Add towards extra labour		5%	1036.22	51.81
	<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	51.81	<b>3.89</b>
	<b>d) Contracor's Profit @ 7.5% on (a+b)</b>		7.5%	51.81	<b>3.89</b>
	Add towards extra Labour Cess @ 1%		1%	59.59	0.60
					1263.76
					<b>1263.80</b>
	<b>(iii) Second floor</b>				
	Rate as per F.F.				1263.76
	Add towards extra labour		5%	1088.03	54.40
	<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	54.40	<b>4.08</b>
	<b>d) Contracor's Profit @ 7.5% on (a+b)</b>		7.5%	54.40	<b>4.08</b>
	Add towards extra Labour Cess @ 1%		1%	62.56	0.63
					1326.95
					<b>1327.00</b>
24	Dismantling and removing 2.5cm thick A.S.Flooring including stacking the useful materials for reuse and removing the debris with in 50m lead etc. complete.				
	<u>Data for 9.30 sqm</u>				

a) Labour				
Man & Women mulia	Nos	2.00	345.00	<b>690.00</b>
<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	690.00	<b>51.75</b>
<b>d) Contracor's Profit @ 7.5% on (a+b)</b>		7.5%	690.00	<b>51.75</b>
Rate per 9.3 sqm				793.50
Rate per sqm				85.32
				<b>878.82</b>
				<b>878.80</b>
61 Removing old lime or cement plaster from walls including raking out joints 12mm deep and removing the debris within 50m lead				
<u>Data for 9.30 sqm</u>				
a) Labour				
man mulia	Nos	1.00	345.00	345.00
<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	345.00	<b>25.88</b>
<b>d) Contracor's Profit @ 7.5% on (a+b)</b>		7.5%	345.00	<b>25.88</b>
Rate for 9.30 sqm				396.76
Rate per sqm				42.66
<b>(i) Ground Floor</b>				
Add Labour Cess 1%				0.43
				43.09
				<b>43.10</b>
<b>(ii) First Floor</b>				
Rate as per G.F.				43.09
Add towards extra labour		5%	37.10	1.85
<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	1.85	<b>0.14</b>
<b>d) Contracor's Profit @ 7.5% on (a+b)</b>		7.5%	1.85	<b>0.14</b>
Add towards extra Labour Cess @ 1%		1%	2.13	0.02
				45.24
				<b>45.20</b>
<b>(iii) Second floor</b>				
Rate as per F.F.				45.24
Add towards extra labour		5%	38.95	1.95
<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	1.95	<b>0.15</b>
<b>d) Contracor's Profit @ 7.5% on (a+b)</b>		7.5%	1.95	<b>0.15</b>
Add towards extra Labour Cess @ 1%		1%	2.25	0.02
				47.51
				<b>47.50</b>
79 Dismantling terraced roof including stacking the useful materials for reuse and removing the debris within 50m lead.				
<u>Data for 9.30 sqm</u>				
a) Labour				
Man & Women mulia	Nos	6.35	@Rs.	150.00
b) Over head charges 10%				

c) sundries and T&P 2%  
 Rate for 9.30 sqm  
 Rate per sqm = 640.08/9.30  
 Add 5% for 1st floor

62 Dismantling and removing doors, windows and ventilators including removal of frame, hinges, fastening and stacking the same for reuse and removing the debris within 50m lead.

Consider a door of (1.22m x 2.13m = 2.60 sqm)

a) Labour

Carpenter 2nd class	Nos	0.50	435.00	217.50
Man & Women mulia	Nos	1.60	345.00	552.00
				769.50

c) **Overhead charges @ 7.5% on (a+b)** 7.5% 769.50 **57.71**

d) **Contractor's Profit @ 7.5% on (a+b)** 7.5% 769.50 **57.71**

Rate for 2.60 sqm 884.92  
 per sqm 340.35

(i) **Ground Floor**

Add Labour Cess 1% 3.40  
 343.75  
**343.80**

(ii) **First Floor**

Rate as per G.F. 343.75

Add towards extra labour 5% 295.96 14.80

c) **Overhead charges @ 7.5% on (a+b)** 7.5% 14.80 **1.11**

d) **Contractor's Profit @ 7.5% on (a+b)** 7.5% 14.80 **1.11**

Add towards extra Labour Cess @ 1% 1% 17.02 0.17

360.94

**360.90**

(iii) **Second floor**

Rate as per F.F. 360.94

Add towards extra labour 5% 310.76 15.54

c) **Overhead charges @ 7.5% on (a+b)** 7.5% 15.54 **1.17**

d) **Contractor's Profit @ 7.5% on (a+b)** 7.5% 15.54 **1.17**

Add towards extra Labour Cess @ 1% 1% 17.88 0.18

379.00

**379.00**

63 Removing old grading plaster from roof, removing the surface, lowering and removing the debris within 50m lead

Data for 9.30 sqm

a) Labour

Man & Women mulia	Nos	1.55	345.00	534.75
-------------------	-----	------	--------	--------

c) **Overhead charges @ 7.5% on (a+b)** 7.5% 534.75 **40.11**

<b>d) Contracor's Profit @ 7.5% on (a+b)</b>	7.5%	534.75	<b>40.11</b>
Rate for 9.30 sqm			614.97
per sqm			66.13
<b>(i) Ground Floor</b>			
Add Labour Cess 1%			0.66
			66.79
			<b>66.80</b>
<b>(ii) First Floor</b>			
Rate as per G.F.			66.79
Add towards extra labour	5%	57.50	2.88
<b>c) Overhead charges @ 7.5% on (a+b)</b>	7.5%	2.88	<b>0.22</b>
<b>d) Contracor's Profit @ 7.5% on (a+b)</b>	7.5%	2.88	<b>0.22</b>
Add towards extra Labour Cess @ 1%	1%	3.32	0.03
			<hr/>
			70.14
			<b>70.10</b>
<b>(iii) Second floor</b>			
Rate as per F.F.			70.14
Add towards extra labour	5%	60.38	3.02
<b>c) Overhead charges @ 7.5% on (a+b)</b>	7.5%	3.02	<b>0.23</b>
<b>d) Contracor's Profit @ 7.5% on (a+b)</b>	7.5%	3.02	<b>0.23</b>
Add towards extra Labour Cess @ 1%	1%	3.48	0.03
			<hr/>
			73.65
			<b>73.70</b>
64 Dismantling and removing cement concrete including stacking the useful materials for reuse and removing the debris within 50m lead.			
a) Labour			
Man & Women mulia	Nos	1.60	345.00
			552.00
<b>c) Overhead charges @ 7.5% on (a+b)</b>	7.5%	552.00	<b>41.40</b>
<b>d) Contracor's Profit @ 7.5% on (a+b)</b>	7.5%	552.00	<b>41.40</b>
			634.80
<b>(i) Ground Floor</b>			
Add Labour Cess 1%			6.35
<b>Rate per cum</b>			641.15
			<b>641.20</b>
<b>(ii) First Floor</b>			
Rate as per G.F.			641.15
Add towards extra labour	5%	552.00	27.60
<b>c) Overhead charges @ 7.5% on (a+b)</b>	7.5%	27.60	<b>2.07</b>
<b>d) Contracor's Profit @ 7.5% on (a+b)</b>	7.5%	27.60	<b>2.07</b>
Add towards extra Labour Cess @ 1%	1%	31.74	0.32
			<hr/>
			673.21
			<b>673.20</b>
<b>(iii) Second floor</b>			
Rate as per F.F.			673.21
Add towards extra labour	5%	579.60	28.98

<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	28.98	<b>2.17</b>
<b>d) Contracor's Profit @ 7.5% on (a+b)</b>		7.5%	28.98	<b>2.17</b>
Add towards extra Labour Cess @ 1%		1%	33.32	0.33
				<hr/>
				706.86
				<b>706.90</b>
 <b>XX</b>				
34	Dismantling and removing RCC columns,beams,slab,staircase landing,intels including stacking the useful materials for reuse and removing the debris within 50m lead.			
a) Labour				
	Semiskilled mulia	Nos	1.50	385.00
	Man mulia	Nos	1.50	345.00
				1095.00
<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	1095.00	<b>82.13</b>
<b>d) Contracor's Profit @ 7.5% on (a+b)</b>		7.5%	1095.00	<b>82.13</b>
				1259.26
<b>(i) Ground Floor</b>				
	Add Labour Cess 1%			12.59
	<b>Rate per cum</b>			<b>1271.85</b>
				<b>1271.90</b>
<b>(ii) First Floor</b>				
	Rate as per G.F.			1271.85
	Add towards extra labour	5%	1095.00	54.75
<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	54.75	<b>4.11</b>
<b>d) Contracor's Profit @ 7.5% on (a+b)</b>		7.5%	54.75	<b>4.11</b>
Add towards extra Labour Cess @ 1%		1%	62.97	0.63
				<hr/>
				1335.45
				<b>1335.50</b>
<b>(iii) Second floor</b>				
	Rate as per F.F.			1335.45
	Add towards extra labour	5%	1149.75	57.49
<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	57.49	<b>4.31</b>
<b>d) Contracor's Profit @ 7.5% on (a+b)</b>		7.5%	57.49	<b>4.31</b>
Add towards extra Labour Cess @ 1%		1%	66.11	0.66
				<hr/>
				1402.22
				<b>1402.20</b>
28	Dismantling and removing RCC Chajja, shelves, fins and parapets including stacking the useful materials for reuse and removing the debris within 50m lead.			
	<u>Data for 9.30 sqm</u>			
a) Labour				
	Man mulia	Nos	3.50	@Rs. 150.00

	b) Over head charges 10%				
	c) sundries and T&P 2%				
	Rate for 9.30 sqm				
	Rate for 1 sqm				
86	Dismantling and removing marble chips flooring				
	<u>Data for 9.30 sqm</u>				
	a) Labour				
	Man & Women mulia	Nos	1.60	@Rs.	150.00
	women mulia	Nos	1.40	@Rs.	150.00
	b) Over head charges 10%				
	c) sundries and T&P 2%				
	Rate for 9.30 sqm				
	per sqm = 302.40/ 9.30				
87	Dismantling and removing marble chips in dadoos and skirting from walls				
	<u>Data for 9.30 sqm</u>				
	a) Labour				
	man mulia	Nos	1.10	@Rs.	150.00
	b) Over head charges 10%				
	c) sundries and T&P 2%				
	Rate for 9.50 sqm				
	per sqm = 110.88/ 9.50				
4	Dismantling and removing old tiled flooring including removing the base coarse etc. complete.				
	<u>Data for 9.30 sqm</u>				
	a) Labour				
	mulia	Nos	2.50	@Rs.	150.00
	b) Over head charges 10%				
	sundries and T&P 2%				
	Rate for 9.30 sqm				
	per sqm = 252.00/ 9.30				
5	Dismantling and removing old tiled cladding from walls including racking out joints 12mm deep etc. complete.				
	<u>Data for 9.30 sqm</u>				
	a) Labour				
	man mulia	Nos	1.30	@Rs.	150.00
	b) Over head charges 10%				
	sundries and T&P 2%				
	Rate for 9.30 sqm				
	per sqm = 131.04/ 9.30				
					<b>0.00</b>
66	Dismantling GCI or AC sheet roof etc. complete.				
	<u>Data for 9.30 sqm</u>				
	a) Labour				
	Fitter 2nd class	Nos	0.25	435.00	108.75



Mulia	Nos	1.50	345.00	517.50
				626.25
<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	626.25	<b>46.97</b>
<b>d) Contracor's Profit @ 7.5% on (a+b)</b>		7.5%	626.25	<b>46.97</b>
Rate for 9.30 sqm				720.19
per sqm				77.44
<b>(i) Ground Floor</b>				
Add Labour Cess 1%				0.77
				78.21
				<b>78.20</b>
<b>(ii) First Floor</b>				
Rate as per G.F.				78.21
Add towards extra labour		5%	67.34	3.37
<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	3.37	<b>0.25</b>
<b>d) Contracor's Profit @ 7.5% on (a+b)</b>		7.5%	3.37	<b>0.25</b>
Add towards extra Labour Cess @ 1%		1%	3.87	0.04
				82.12
				<b>82.10</b>
<b>(iii) Second floor</b>				
Rate as per F.F.				82.12
Add towards extra labour		5%	70.71	3.54
<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	3.54	<b>0.27</b>
<b>d) Contracor's Profit @ 7.5% on (a+b)</b>		7.5%	3.54	<b>0.27</b>
Add towards extra Labour Cess @ 1%		1%	4.08	0.04
				86.24
				<b>86.20</b>
67 Dismantling wood work in roof frame				
<u>Data for 0.0283 cum</u>				
a) Labour				
Carpenter 2nd class	Nos	0.03	435.00	13.05
Mulia	Nos	0.04	345.00	13.80
				26.85
<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	26.85	<b>2.01</b>
<b>d) Contracor's Profit @ 7.5% on (a+b)</b>		7.5%	26.85	<b>2.01</b>
Rate for 0.0283 cum				30.87
Rate for cum				1090.81
<b>(i) Ground Floor</b>				
Add Labour Cess 1%				10.91
				1101.72
				<b>1101.70</b>
<b>(ii) First Floor</b>				
Rate as per G.F.				1101.72
Add towards extra labour		5%	948.76	47.44
<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	47.44	<b>3.56</b>
<b>d) Contracor's Profit @ 7.5% on (a+b)</b>		7.5%	47.44	<b>3.56</b>
Add towards extra Labour Cess @ 1%		1%	54.56	0.55

				1156.83
				<b>1156.80</b>
<b>(iii) Second floor</b>				
Rate as per F.F.				1156.83
Add towards extra labour		5%	996.20	49.81
<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	49.81	<b>3.74</b>
<b>d) Contracor's Profit @ 7.5% on (a+b)</b>		7.5%	49.81	<b>3.74</b>
Add towards extra Labour Cess @ 1%		1%	57.29	0.57
				<hr/>
				1214.69
				<b>1214.70</b>
<b>35 Providing, fitting and fixing of 200mm wide, 16 gauge Aluminium sheet in the side of the expansion joints after</b>				
Price of 200mm wide, 16 gauge Aluminium sheet			209.73	
VAT		5.0%	10.49	
Transportation		0.81	27.07	21.93
		Kg		242.15
<b>Materials</b>				
Price of 16 gauge Aluminium sheet	m		1	242.15
				per m
<b>Labour</b>				
Cutting of Aluminium sheet & making grooves		1.00 LS	45.00	<b>45.00</b>
Cleaning the joints		LS		50.00
Providing Aluminium sheet after drilling and anchoring with screws		L.S		120.00
				215.00
Total = a + b				457.15
Add towards Service Tax		12.36%		56.5
				513.65
Add towards Labour Cess		1%		5.14
Rate per mtr				518.79
				<b>518.80</b>
<b>69 Providing fitting &amp; fixing of cornice for Gypsum Board ceiling of approved design by</b>				
<b>(Data for 10Rft</b>				
Cost of cornice 4" wide	ft	10	45	450.00
carriage of cornice	L/S			2.00
Labour charges	L/S			45.00
Nail and pvc greeps etc.	L/S			4.00
Per 10 Feet				501.00
Rate for one Rft.				50.10
Cess @ 1%				0.50
Rate per Feet for Gr Floor				<b>50.60</b>
<b>Rate per Sqm</b>				<b>166.31</b>
				<b>166.30</b>
<b>36 Providing, fitting and fixing of Sikadur Combiflex SG 20P 200 and sealed by Sikadur 31C @ 1.4kg per meter over</b>				
<b>Price of 300mm wide 16 gauge Aluminium sheet</b>		1.10+wastage 0.11=1.21kg @260/kg		
		1.21	260.00	314.6
		per kg		
VAT		5.0%	15.73	

Transportation	1.21	27.07	32.75	
			363.08	
<b>Price of Sikadur 32 Epoxy bonding agent @ Rs.18534.00/30kg</b>			617.80	
VAT	13.5%		83.40	
Transportation		L.S	27.07	
		kg	728.27	
<b>Price of Sikagrout 214 @ Rs.710.00/30kg</b>			23.66	
	13.5%		3.19	
Transportation		L.S	27.07	
			53.92	
<b>Price of Sikadur Combiflex SG20P of 200mm thick @ Rs.30414.00/20m</b>			1520.70	
	13.5%		205.29	
Transportation		L.S	27.07	
			1753.06	
<b>Price of Sikadur 31C @ Rs.5564/12kg</b>			463.67	
	13.5%		62.60	
Transportation		L.S	27.07	
			553.34	
<b>Materials</b>				
Price of Sikadur 32 Epoxy bonding agent @ 200gm/m				
	kg	0.2	728.27	145.65
Price of Sikagrout 214 @ 8kg/m	kg	8	53.92	431.36
Price of Sikadur Combiflex SG20P of 200mm thick	m	1	1753.06	1753.06
Price of Sikadur 31C @ 1.4kg/m	kg	1.4	553.34	774.67
Price of 16 gauge Aluminium sheet	m	1	363.08	363.08
			@	3467.82
<b>Labour</b>				
Cutting of Aluminium sheet & making grooves		1	45.00	45.00
Cleaning the joints for application		L.S		50.00
Applying Epoxy & Grout		L.S		80.00
Applying Combiflex & Sikadur 31C		L.S		70.00
Providing Aluminium sheet after drilling and anchoring with screws		L.S		120.00
				365.00
Total = a + b				3832.82
Add towards Service Tax		12.36%		473.74
				4306.56
Add towards Labour Cess		1%		43.07
				4349.63
				<b>4349.60</b>
<b>37 Providing and fixing of Aluminium Composite Panel glazing fixed to wall surface of approved make and quality</b>				
Price of 3mm thick Aluminium Composite Panel exterior grade			140.00	
VAT	13.5%		18.90	
			<u>158.90</u>	
Data for 5.50 x 3.30m =				
18.15sqm+10% wastage=19.965sqm=214.82 sft				

<b>A) Materials</b>				
3mm thick Aluminium Composite Pannel	sft	214.82	158.90	34134.90
<b>(i) Outer frame (100 x 44 mm)</b>				
Vertical = 2 x 5.50m =	11.00 m			
Horizontal = 2 x 3.30m =	6.60 m			
	17.60 m @			
	@ kg/m	2.0	35.20	
<b>(ii) Inner frame (50 x 63 mm)</b>				
Vertical = 9 x 5.50m =	49.50 m			
Horizontal = 17 x 3.30m =	56.10 m			
	105.60 m @			
	@ kg/m	1.0	105.60	
			kg	
			140.80	
Add 10% wastage			14.08	
			154.88	
Aluminium Square Frame	kg	154.88	226.00	35002.88
Stainless screw	nos.	200	2.00	400.00
VHP Tape	mtr	123.20	27.50	3388.00
<b>789 Grade Silicon</b>	mtr	123.20	35.00	4312.00
Bamboo for scaffolding (used for 3 times)	3nos	18	125.00	750.00
Coir				50.00
38mm Non Sal Planks (10 mtr x 1.00m) used for 10 times	cum /	0.38	16600.00	630.80
Carpenter 1st Class	7.00 nos.		495.00	3465.00
Carpenter 2nd Class	7.00 nos.		435.00	3045.00
Hire & Running charge of drilling machine	2.00 days		100.00	200.00
				85378.58
<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	85378.58	<b>6403.39</b>
<b>d) Contracor's Profit @ 7.5% on (a+b)</b>		7.5%	85378.58	<b>6403.39</b>
				98185.36
Rate per Sqm				5409.66
Add 1% towards Labour Cess				54.1
				5463.76
				<b>5463.80</b>
<b>(iii)</b>				
Earthwork in excavation in hard soil with 5 km mechanical lead including rough dressing and breaking clods to max. 5cm to 7cm size and laying in layers not exceeding 0.30m in depth				
<u>Data for 1 cum</u>				
a) Basic rate of hard soil	cum	1	170.60	170.60
b) Add carriage charge of 5km	cum	1	136.00	136.00
Royalty	cum	1	19.60	19.60
<b>Total rate for 1 cum (a+b)</b>				<b>326.20</b>
Add Labour Cess 1%			1%	3.26

Factory made **FRP( Alternatly called GRP) door frame** of size 75mm x 100mm fabricated using E - glass chopped strand mat (CSM) U.V stabilised inopathalic Gel coat and impregnated with inopathalic resin The thickness of the GRP skins shall not be less then 2.0 mm . The door frame consists of four segments which are provided with plug in socket arrangement in-situ-in mould. The segments are plugged in and are joined together by means of srew. The GRP frame shall be provided with wooden reinforcement on six locations for high srew holding capacity for fixing metallic hold fast and shall be consolidated by filling with medium density foam / plaster of paris with fibre reinforcement , six number of 260mm x 25mm x 5mm size 'S' shaped M.S flat hold fast shall be provided with the frame. The material and process for manufacturing the finish of door frame shall conform to RV-TIFAC composites Design centre's standards and specifications . The finish of door frame will be plain colour white /Ivory/Beige/Light grey / Golden brown / Mahogany/ Teak wood /sand stone Champagne/Pastel blue or any other colour using high quality pigment complete in all respect as per specification and direction of the Engineer in Charge. etc. complete

Data per (2'-6" x 6'-6" = 15'-6" or,) 4.72mtr.

<b>a)Cost of choukath as per EPM Rate per mtr=Rs</b>	475.00		475.00
<b>b) Labour for Fitting &amp; fixing</b>	55.800 /4.72m		
Rate per 1 mtr.(a+b)/4.72			475.00
<b>c) Overhead charges @ 7.5% on (a+b)</b>	7.5%	475.00	<b>35.63</b>
<b>d) Contracor's Profit @ 7.5% on (a+b)</b>	7.5%	475.00	<b>35.63</b>
			546.26
Add Labour Cess 1%			5.46
Per Rmt			<b>551.72</b>
Per Rmt		SAY	<b>551.70</b>

Factory made GIRID FRP or called GRP sandwich composite door shutter of 32mm thick laminated with two GRP skin with good grain finish fabricated using UV stabilised isopthalic gel coat and one layer of 450 gsm E-glass chopped strand mat (CSM) impregnated with ortopathilic resin The thickness of the skins shall not be less than 1.50mm . Expanded polysryne ( EPS) structural foam panel of 29 mm tickness and a density of 20kg/cu.mts shall be used as core material wooden reinforcements made of sesasoned sal wood block of cross section not less than 28mm x 32mm and also necessary sal wood reinforcements for fitting the metal fittings such as lower bolts ,aldrops, handles etc. shall be provided . A structural adhesive compatible with (EPS)foam shall be used for bending the core material. the sal wood reinforcements and the skin The material and process for manufacturing te door shutter shall conform to RV -TIFAC components design centre's standards and specification and the door shutters tested in conformation to IS 4020-1998. The Finish of door shutter will be plain colour as per specification and direction of the Engineer in Charge. etc. complete

#### Labour for Fixing

Data per 1.88 sqm

#### a ) Labour

Carpenter 2nd Class		1.000	435.00	435.00
Mulia		1.000	345.00	345.00
Per 1.88 sqmTotal (a+b)				780.00
Per 1 sqmTotal (a+b)/1.88				414.89
<b>Cost of Shutter</b>				
Data per (2'-2"x 6'-4"=13.717sqm Or) 1.274sqm				
Cost of Shutter As per E.P.M. Rate per mtr = Rs			2657.00	
Rate per sqm			2657.00	
Cost of Shutter	sqm	1.274	2657.00	3385.02
Aluminum Handle 4" (150mm x 33mm flat)	Nos	2.000	35.03	70.06
Aluminum Tower Bolt 6" (150mm x 10mm)	Nos	1.000	59.46	59.46
Aluminum Aldrop (250mm x 16mm)	Nos	1.000	232.98	232.98
N.F. Screw (30mm x 5 mm)	Nos	36.000	0.54	19.31
				3766.83
Per 1 sqm		3766.83	1.274	2956.70
Total Cost including fitting & fixing (A+B)				3371.59
Rate per sqm			<b>Or,Say</b>	3371.59
c) Overhead charges @ 7.5% on (a+b)		7.5%	3371.59	<b>252.87</b>
d) Contracor's Profit @ 7.5% on (a+b)		7.5%	3371.59	<b>252.87</b>
				<b>3877.33</b>
Add Labour Cess 1%				38.77
Rate per sqm			<b>Or,Say</b>	3916.10
Rate per sqm			SAY	<b>3916.10</b>
<b>44 Supplying Angular truss revetted welded type including bottom runner ties made out of M.S angles but excluding purlins, Hosting joists and trusses and placing in position.</b>				
<b>A/R item No.1 P.224</b>				
<u>Data for 0.508qtl.</u>				
<b>Labour</b>				
Sangi Mulia for conveying joist from outside to the buildings	Each no	0.25	385.00	96.25
Sangi Mulia for lifting joists up to top of the walls with ropes etc.	Each no	0.75	385.00	288.75
Man Mulia for placing joists in position	Each no	0.17	345.00	58.65
			Total	443.65
Angular steel truss revetted welded type with M.S Angle	Qntl	0.508	5205.00	2644.14
			Total	3087.79
c) Overhead charges @ 7.5% on (a+b)		7.5%	443.65	<b>33.27</b>
d) Contracor's Profit @ 7.5% on (a+b)		7.5%	3087.79	<b>231.58</b>
Carriage	Qntl	0.508	24.79	<b>12.59</b>
Rate per 0.508 Qntl				3365.23
Rate per 1 Qntl				6624.47
Add 1% Labour Cess		1%		<b>66.24</b>
Rate per Qntl	<b>Total</b>			<b>6690.71</b>

Rate per M.T				<b>66907.10</b>
			Say	<b>66907.10</b>
<b>44 Supplying Angular Purlins revetted welded type including bottom runner ties made out of M.S angles, Hosting joists and trusses and placing in position.</b>				
<b>A/R item No.1 P.224</b>				
<u>Data for 0.508qntl.</u>				
<b>Labour</b>				
Sangi Mulia for conveying joist from outside to the buildings	Each no	0.25	385.00	96.25
Sangi Mulia for lifting joists up to top of the walls with ropes etc.	Each no	0.75	385.00	288.75
Man Mulia for placing joists in position	Each no	0.17	345.00	58.65
			Total	443.65
Angular steel truss revetted welded type with M.S Angle	Qntl	0.508	4610.00	2341.88
			Total	2785.53
<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	443.65	<b>33.27</b>
<b>d) Contracor's Profit @ 7.5% on (a+b)</b>		7.5%	2785.53	<b>208.91</b>
<b>Carriage</b>	Qntl	0.508	24.79	<b>12.59</b>
Rate per 0.508 Qntl				3040.30
Rate per 1 Qntl				5984.84
Add 1% Labour Cess	1%			<b>59.85</b>
Rate per Qntl	<b>Total</b>			<b>6044.69</b>
Rate per M.T				<b>60446.90</b>
			Say	<b>60446.90</b>
<i>Providing fitting and fixing of GCI sheet in roofing including all cost conveyance taxes etc. complete.</i>				
<b>Labour</b>				
Carpenter spl	nos	0.5	495.00	247.50
Fitter spl	nos	1	495.00	495.00
Mulia	nos	2	345.00	690.00
				1432.50
<b>Rate per sqm for Gr Floor</b>		1432.50	/9.3	154.03
Cost of GCI sheet 0.4mm	sqm	1.00	317.50	317.50
				471.53
<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	471.53	<b>35.36</b>
<b>d) Contracor's Profit @ 7.5% on (a+b)</b>		7.5%	471.53	<b>35.36</b>
				<b>542.25</b>
Add cost of Lead	sqm	1.00		0.00
				<b>542.25</b>
Cess @ 1%				5.42
Rate per sqm				547.67
				<b>547.70</b>

**38** Providing & Fixing of Acoustical Mineral Fibre **Board of RH-99** with microperforated, finely granulated surface texture , beveled tegular edge with 6mm Black Revealed exposed grid Suspended False Ceiling System, with tiles of Humidity Resistance (RH) of 99%, NRC Upto 0.5,  $\alpha_w$  value 0.6, CAC- 34dB ,Light Reflectance >85%, thermal Conductivity  $k = 0.052- 0.057$  w/m K, Colour White, Fire Performance Class- 0/ Class -1 (BS476 Part 6&7) in module size of **600 X 600 X 16 mm** with Bio Block coating on the face of the tile, suitable for Green Building application, with Recycled content of 63%, fixed to G.I.grid of system with 15mm white flanges incorporating a 6mm central reveal in white/black colour and with a web height of 38mm , having stiches both perpendicular and horizontal to make it stronger, and a load carrying capacity of minimum 15.68 Kgs/Sqm. The Main Runners & Cross Tees to have mitred ends & "birdsmouth" notches to provide mitred cruciform junctions. The T Sections have a Galvanizing of 120 grams per SQM & **passed** Data for 19.53 Sqm

**A Materials**

i	Shadow Wall Angle (3000x19x7x7x14)mm =4 x 14'-6"	58.00 Rft			
	Wastage @ 5%	2.90 Rft			
		<u>60.90 Rft</u>			
		or	19.45 Rmt	38.58	750.38
ii	Main Runner(3000X38x15mm B/W) - 4 x 14'-6"	= 58.00 Rft			
	Wastage @ 5%	= 2.90 Rft			
		<u>60.90 Rft</u>			
		or	18.56 Rmt	70.87	1315.35
iii	Cross Tee - (1200mm x 38mm x 15mm -B/W) -				
	7 x 3 x 4'-0" =	84.00 Rft			
	7 x 2 x 1'-3" =	17.50 Rft			
		<u>101.50 Rft</u>			
	Wastage @ 5%	= 5.08 Rft			
		<u>106.58 Rft</u>			
		or	32.49 Rmt	70.87	2302.57
iv	Cross Tee - 600mm x 38mmX15mm- B/W) -				
	6 x 3 x 2'-0" =	36.00 Rft			
	2 x 3 x 1'-3" =	7.50 Rft			
		<u>43.50 Rft</u>			
	Wastage @ 5%	= 2.18 Rft			
		<u>45.68 Rft</u>			
		or	13.92 Rmt	70.87	986.51
v	Accoustic Mineral Fiber Board RH-99 including wastage @ 5% = 19.53 + 0.98 = 20.51	20.51 Sqm		688.98	14130.98
vi	Fittigs				
	Rawl plug/Fastner	42 Nos.		11.02	462.84
	G I 9" connecting hooks with nuts and washer	42 Nos.		6.30	264.60
	G I wire-2mm dia	2.00 Kg.		94.49	188.98
	65mm PVC Plug	50 Nos.		0.79	39.50
	Screws 50 mm x 8mm	50 Nos.		0.83	41.52
					<b>20483.23</b>

**B Hire Charges**

Hire charges of drills machine	1.50 Day	86.96	130.44
			<b>130.44</b>

**C Labour**



Carpenter 1st class	5.00	Nos.	495.00	2475.00
Mulia	5.00	Nos.	345.00	1725.00
				<b>4200.00</b>
Total = a + b + c				<b>24813.67</b>
<b>Overhead charges @ 7.5%</b>		7.5%	24813.67	1861.03
<b>Contractor profit @ 7.5%</b>		7.5%	24813.67	1861.03
				<b>28535.73</b>
Rate per sqm				1461.12
Add Labour cess @ 1%		1%	1461.12	14.61
Rate per sqm				<b>1475.73</b>
		Say		<b>1475.70</b>
<b>44</b> Factory made 30mm/32mm flush door shutter (nonsal hard wood framefixed with 4mm BWR ply on both side of frame) with all labour, iron fittings, and wooden hinged cleats etc fitted and fixed complete in all respect				

**Unit = Sqm (A/R 2006-Page No-132 item-3)**

**Taking output = 1.88 Sqm**

**a) Materials**

Flush door as per rate of director of industries @235.00 per sft	sqm	1.88	2528.60	4753.77
Wooden hinged cleats	Nos	2	12.50	25.00
				<b>4778.77</b>

**b) Labour**

Fixing Shutters

Carpenter 2nd Class	Each	1.00	435.00	435.00
Man Mulia	Each	1.00	345.00	345.00
				<b>780.00</b>

**c) Overhead charges @ 7.5% on (a+b)**

7.5% 5558.77 **416.91**

**d) Contractor's Profit @ 7.5% on (a+b)**

7.5% 5558.77 **416.91**

**Rate per 1.88 Sqm = a+b+c+d+e**

6392.59

**Rate per 1 Sqm = (a+b+c+d+e)/1.88**

**3400.31**

**e) Fitting & Fixing of Oxidised Mild Steel**

Butt Hinzes 100x58x1.9mm	Each	6	15.27	91.62
Butt Hinzes 50x37x1.5mm	Each	2	0.00	0.00
Handle 150mm	Each	2	20.00	40.00
Tower Bolt 200x10mm	Each	1	30.09	30.09
Aldrop 300x16mm	Each	2	98.30	196.60
Screw 35mm x6mm for Hinges 6 Nos.	Each	50	0.59	29.72
Screw 25mm x 4mm for Tower Bolts 2 Nos.	Each	20	0.41	8.18
Screw 20mm x 4mm for Aldrop 2 Nos.	Each	4	0.38	1.53
Rate per 1.88 Sqm				397.73

**c) Overhead charges @ 7.5% on (a+b)**

7.5% 397.73 **29.83**

**d) Contractor's Profit @ 7.5% on (a+b)**

7.5% 397.73 **29.83**

457.39

<b>Rate per 1 Sqm</b>				243.29
<b>Total Rate per 1 Sqm</b>	3400.31	+	243.29	3643.60
Add towards Labour Cess @ 1%			1%	3643.60
				<u>36.44</u>
				<b>3680.04</b>
<b>Total Rate per 1 Sqm</b>			<b>Say</b>	<b>3680.00</b>

45 Supplying fitting fixing 5mm thick Black glass (I.S.I.)

Cost of 5mm thick black glass with 10 wastage	sqm	1.10	608.40	669.24
<b>d) Overhead charges @ 7.5% on (a+b)</b>		7.5%	669.24	50.19
<b>e) Contracor's Profit @ 7.5% on (a+b)</b>		7.5%	669.24	50.19
				<u>769.62</u>
Add Labour Cess 1%			1%	7.70
				777.32
			<b>Say</b>	<b>777.30</b>

53 Providing & fixing of **side hung door** of approved make to be fabricated from **roll formed sections** made of pre -painted steel (base steel as per IS-513 of 0.60 mm thick "D" quality, galvanised as per IS-277 with zinc of 120 gm/sqm)with total coated thickness of 0.55 mm slide guide section should be made of 0.5 mm stainless steel of 430 grade with paint specification being with primer of 5-7 microns thick & finished paint with polyester paint(Black/Pearlwhite/Chocolate brown) of 12-16 microns along with the alkyd backer at the back of 5-7 microns & sections for external frame bottom & top should be of 79x45 mm external frame sides should be of 69x24 mm, guide for top & bottom should be of 69x26 mm ( stainless steel). section for shutter should be of 26x30 mm, sash bar should be of 23x57 mm .Accessories/gaskets are to be used as per the manufacturer's supply & specification like gasket will be made of EPDM . All corner brackets for internal & external are to be made of glass filled nylon. The sections are to be cut to length, joined & assembled by means of corner bracket &frames are fixed to the concrete/ masonry walls by means of self expanding screws &board to be with 50% **9mm pre-laminated board and 50% 9mm thick glass** with all taxes complete.

Data for 1.74 sqm

**E)Labour**

Hig skilled	nos	1.870	495.00	925.65
Semi skilled	nos	1.870	385.00	719.95

**Materials**

**A) Profile**

Outer frame Po-527	mts	5.339	0.00	0.00
sash bar Po -101	mts	1.525	617.97	942.40
Shutter frame Po-153	mts	6.102	409.19	2496.88

**B)Accessories**

Outer frame corner	nos	2.000	33.73	67.46
Side hung door/pc	nos	1.000	34.65	34.65
Door lock / Pc	nos	1.000	465.87	465.87
sash bar / pc	nos	2.000	357.75	715.50
Wall fixing with polymide anchor at every 600mm c/c of outer frame	nos	7.000	20.48	143.36

**C)Gasket**

For sashbar Po-101	mts	1.525	63.27	96.49
For shutter Po-153	mts	6.102	0.00	0.00
<b>D)Board</b>				
Cost of 9mm thick pre laminated board	sqm	0.870	0.00	0.00
<b>Cost of 9mm thick glass</b>	<b>sqm</b>	<b>0.870</b>	<b>672.91</b>	<b>585.43</b>
			<b>Total</b>	<b>7193.64</b>
<b>F) Overhead charges @ 7.5% on (A+B+C+D+E)</b>		0.075	7193.64	539.52
<b>G) Contracor's Profit @ 7.5% on (A+B+C+D+E)</b>		0.075	7193.64	539.52
				8272.68
Total rate for 1.0 sqm (a+b+c+d+e+f)/1.74				4754.41
Add Labour Cess 1%			1%	47.54
				4801.95
			<b>Say</b>	<b>4802.00</b>

**54 Carriage of excavated earth by mechanical means within 5KM lead (excluding loading charges )**

<b>Carriage for 1st 5 KM including loading &amp; unloading</b>				149.67
<b>Contractor's Profit @ 0.075 on (a+b)</b>		7.5%	149.67	11.23
<b>Overhead charges @ 0.075 on (a+b)</b>		7.5%	149.67	11.23
				<b>172.13</b>
<b>Add 1% for CESS</b>		1.0%	172	1.72
				173.85

**Say 173.90**

**55 Loosening levelling & compacting original ground supporting embankment to facilitate a placement of 1st layer of embankment up to a depth of 150mm mixed with water at OMC & then and then compacted by rolling as per Clause 300.20 for embankment construction as per Clause No- 305.3.4 of MoRTH specification. A/R Item No- 37, Page- 158**

Data for 600 Cum				
<b>a</b>	Labour			
	Mate	0.08	Nos	385.00
	Mazdoor	2.00	Nos	345.00
				<b>720.80</b>
<b>b</b>	Masonry			
	Tractor with Ripper	6.00	Hrs	378.55
	Vibrating Roller	7.50	Hrs	1538.54
	Water Tanker	4.00	Hrs	900.84
				<b>17413.71</b>
<b>c</b>	Materials			
	Cost of Water	24.00	KLA	10
<b>d</b>	OHC & cont.profit @15%(a+b+c)	0.15		18374.51
	Rate per 600 Cum (a+b+c+d+e)			21130.69
	Rate per 1 Cum	600.00		21130.69
	Add for labour cess @1%			<b>0.35</b>
				<b>35.57</b>

9 Providing close graded granular subbase with Grading-III materials

4.1-401 (B) As per A/R P 160 Item 39

Out put 300 cum

**a Labour**

Mate	0.48	nos	385.00	184.80
Skilled Mazdoor	2.00	nos	435.00	870.00
Mazdoor	10.00	nos	345.00	3450.00
			Total	<b>4504.80</b>

**b Machinery**

Moter grader	6.00	hrs	2391.39	14348.34
Vibrating roller	6.00	hrs	1538.54	9231.24
Tractor rotavator	12.00	hrs	373.55	4482.60
Water tanker	3.00	hrs	900.84	2702.52
				<b>30764.70</b>

**c Materials(For Grading-III)**

9.5 mm to4.7mm @35%	134.40	Cum	19.50	2620.80
4.7mm to2.36mm @12.5%	48.00	Cum	5.25	252.00
Dust 2.36mm below @ 52.5%	201.60	Cum	5.25	1058.40
cost of water18KL / 6KL	18.00	KL	10.00	180.00
				<b>4111.20</b>

**d OHC cont.profit 15% on(a+b+c)**

0.15			39380.70	<b>5907.11</b>
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**e Carriage & Royalty**

9.5 mm to4.7mm @35%	134.40	Cum	100.00	13440.00
4.7mm to2.36mm @12.5%	48.00	Cum	100.00	4800.00
Dust 2.36mm below @ 52.5%	201.60	Cum	100.00	20160.00
				<u>38400.00</u>

Ratefor300 cum

**Rate per one cum**

300.00			83687.81	278.96
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Add for labour cess @1%

**2.79**

**281.75**

**281.70**

56 Construction of cement concrete kerb with top and bottom width 115 and 165 mm respectively, 250 mm high in M 20 grade PCC on M-10 grade foundation 150mm thick, foundation having 50mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete as per clause 408

Unit-Running metre Taking output-360 metre

Cement concrete of grade M-20 = 12.60 cum

Cement concrete of grade M-10 for base = 11.61 cum

Total concrete = 24.21 cum

**Labour**

Mate	0.72 each		385.00	277.20
Mason (2nd class)	2.00 each		435.00	870.00
Mazdoor	16.00 each		345.00	5520.00

**Machinery**

Kerb casting machine @ 60 metre/hour	6.00 hour		309.55	1857.30
Concrete mixer 0.48/0.28 cum capacity	12.00 hour		229.55	2754.60
water tanker 6 KL capacity	5.00 hour		900.84	4504.20

Materials

crushed stone aggregate 20mm nominal size 59%	21.79 cum	19.50	424.91
sand	10.90 cum	5.25	57.23
cement	5.70 tonne	0.00	0.00
cost of water	30.00 Kl	10	300.00
			Rs. 16,565.43
O.H.C @ 7.5%	7.5% on	16,565.43	Rs. 1,242.41
Contractors profit @ 7.5%	7.5% on	16,565.43	Rs. 1,242.41
Lead & royalty of Material			
crushed stone aggregate 20mm nominal size 59%	21.79 cum	100.00	2179.00
sand	10.90 cum	125.00	1362.50
cement	5.70 tonne	0.00	0.00
cost for 360 metre			Rs. 22,591.75
Add @ 1% for cess			Rs. 225.92
			<u>Rs. 22,817.67</u>
Rate for one metre			Rs. 63.38

57 Clearing grass and removal of rubbish up to a distance of 50 metres outside the periphery of the area .

**Unit = Sqm (A/R 2006-Page No-196 item-2)**

**Taking output = 1 Hectare**

**a) Labour**

Mate	Each	2.000	385.00	770.00
Man Mulia	Each	50.000	345.00	17250.00
				<u>18020.00</u>

**b) Overhead charges @ 7.5%**

7.5% 18020.00 **1351.50**

**c) Contracor's Profit @ 7.5%**

7.5% 18020.00 **1351.50**

20723.00

**Rate per 1 Sqm = a+b+c**

2.07

Add towards Labour Cess @ 1%

1% 2.07 0.02

**2.09**

**Say 2.10**

58 *Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.(80x1.25 mm M.S. laths with 1.25 mm thick top cover)*

**Unit = Sqm**

**(DAR 2018-Page No-675 item-10.6.1)**

**Taking output = 3m X 2.5m=7.5 Sqm**

**a) Materials**

Rolling shutter made of 80x1.25 mm machine rolled laths	sqm	7.5	1400.00	10500.00
Top cover for rolling shutters 1.25 mm thick	meter	2.5	800.00	2000.00
27.5 cm long wire spring grade no 2 for rolling shutters	each	1	300.00	300.00

**12800.00**

**b) Labour( Fixing Shutters)**

Fitter (grade 1)	day	2.55	495.00	1262.25
Beldar	day	2.55	345.00	879.75
Mason 1st class	day	0.12	495.00	59.40
Mason 2nd class	day	0.12	435.00	52.20

**2253.60**

**c) Carriage**

L.S	53.82	2.00	107.64
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**d) Overhead charges @ 7.5% on (a+b)**

7.5%	15053.60	1129.02
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**e) Contractor's Profit @ 7.5% on (a+b)**

7.5%	15053.60	1129.02
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**Rate per 7.5 Sqm = a+b+c+d+e**

17419.28

**Rate per 1 Sqm =( a+b+c+d+e)/7.5**

**2322.57**

Add towards Labour Cess @ 1%

1%	2322.57	23.23
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**2345.80**

**Total Rate per 1 Sqm**

**Say 2345.80**

59 **M.S Panneled Door** single leaf shutter with M.S frame including frame made out of M.S angle and panel shutter with C.R sheet

**Unit = Kg.**

**Taking output = 1 Kg.**

Cost of Grill as per EPM Rate	kg	1.00	67	67.00
Labour for fixing-Taking 3 kg/Sft i.e 32.28 kg/sqm as per S/R-2006 item-6	sqm	67.40	32.28	2.09
			Total	Rs 69.09
Overhead charges @ 7.5% on (a+b)		7.5%	69.09	5.18
Contractor's Profit @ 7.5% on (a+b)		7.5%	69.09	5.18
Carriage	kg		161.72	0.162
				79.61
Add towards Labour Cess @ 1%		1%	79.61	0.80
				<b>80.41</b>
			<b>Say</b>	<b>80.40</b>

55	Clearing grass and removal of rubbish up to a distance of 50 metres outside the periphery of the area .				
	<b>Unit = Sqm (A/R 2006-Page No-196 item-2)</b>				
	<b>Taking output = 1 Hectare</b>				
	<b>a) Labour</b>				
	Mate	Each	2.000	385.00	770.00
	Man Mulia	Each	50.000	345.00	17250.00
					<b>18020.00</b>
	<b>b) Overhead charges @ 7.5%</b>		7.5%	18020.00	<b>1351.50</b>
	<b>c) Contractor's Profit @ 7.5%</b>		7.5%	18020.00	<b>1351.50</b>
					<b>20723.00</b>
	<b>Rate per 1 Sqm = a+b+c</b>				2.07
	Add towards Labour Cess @ 1%		1%	2.07	0.02
					<b>2.09</b>
				<b>Say</b>	<b>2.10</b>

68

Providing, laying, spreading and compacting graded stone aggregate to **Wet Mix Macadam** specification including premixing the material with water at OMC in mechanical mix plant, carriage of mixed material by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density as per Clause 406 of MoRT&H Specifications for Road & Bridge works (4th Revision)

	<b>Unit = cum</b>				
	<b>Taking output = 225 cum (495 tonnes)</b>				
a)	<b>Labour</b>				
	Mate	0.48	each	385.00	184.80
	Mazdoor skilled	2.00	each	435.00	870.00

	Mazdoor unskilled	10.00	each	345.00	3450.00
b)	<b>Machinery</b>				
	Wet mix plant of 75 tonne hourly capacity	6.60	hour	1700.00	11220.00
	Electric generator 125 KVA	6.00	hour	1341.16	8046.96
	Front end loader 1 cum capacity	6.00	hour	804.86	4829.16
	Paver finisher Mechanical 100TPH	6.00	hour	1143.90	6863.40
	Vibratory roller 8 - 10 tonne (6.00 x 0.65*)	3.90	hour	1538.54	6000.31
	Water tanker 6 KL capacity	3.00	hour	900.84	2702.52
	Tipper	495.00	60	3.86	114642.00
	Add 10 per cent of cost of carriage to cover cost of loading and unloading				11464.20
c)	<b>Material ( Table 400-11)</b>				
	45 mm to 22.4 mm@ 30 % (26.5 mm)	89.10	cum	1097.74	97808.63
	22.4 mm to 2.36 mm @ 40 % (13.2 mm + 6.7 mm)	118.80	cum	1370.27	162788.08
	2.36 mm to 75 micron@ 30 %	89.10	cum	136.33	12147.00
	Cost of water	18.00	KL	10.00	180.00
					443197.06
c)	O.H.C @ 7.5%				33239.78
d)	Contractors profit @ 7.5%				33239.78
e)	<b>Carriage &amp; royalty of Material(Table 400-11)</b>				
	45 mm to 22.4 mm@ 30 %	89.10	cum	100.00	8910.00
	22.4 mm to 2.36 mm @ 40 %	118.800	cum	100.00	11880.00
	2.36 mm to 75 micron@ 30 %	89.10	cum	100.00	8910.00
				Total =	539376.62
	<b>Add 1% for CESS</b>				5393.77
	<b>Total =</b>				544770.38
	<b>Rate per One Cum</b>				<b>Rs. 2,421.20</b>

69 Supplying, fitting & fixing of 80 mm Th. Cementconcrete interlocking paver block of M40 grade of approved make, design,colour & and size madeby block machine with proper compaction laid in required patten etc.complete in all respect confirming to IRC SP63-2018 including cost of all materials, labour T&P etc. required for the work all complete incl. rubbing as per direction of the Engineer-in-charge

**Unit = Sqm (A/R SOR 2022-Page No-233 New Miscellaneous item-02)**

**Taking output = 10Sqm**

**a) Materials**

80 mm Th. M40 Grade of Cement concrete paver block	Sqm	10.000	529.04	5290.40
Fine sand for interlocking	Cum	0.150	76.88	11.53
Course sand for bedding	Cum	0.500	71.94	35.97
				<b>5337.90</b>



<b>b) Labour</b>				
Man Mulia	Each	0.08	385.00	30.92
				<b>30.92</b>
<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	5368.82	<b>402.66</b>
<b>d) Contractor's Profit @ 7.5% on (a+b)</b>		7.5%	5368.82	<b>402.66</b>
<b>e) Carriage &amp; Royalty</b>				
80 mm Th. M40 Grade of Cement concrete paver block	Sqm	10.000	28.28	282.77
Fine sand for interlocking	Cum	0.150	1395.16	209.27
Course sand for bedding	Cum	0.500	571.46	285.73
				<b>777.77</b>
<b>Rate per 10 Sqm = a+b+c+d+e</b>				6951.91
<b>Rate per 1 Sqm = (a+b+c+d+e)/10</b>				695.19
Add towards Labour Cess @ 1%		1%	695.19	6.95
				<b>702.14</b>
			<b>Say</b>	<b>702.10</b>

70 Supplying, fitting & fixing of 60 mm Th. Cementconcrete interlocking paver block of M30 garde of approved make, design,colour & and size madeby block machine with proper compaction laid in required patteren etc.complete in all respect confirming to IRC SP63-2018 including cost of all materials, labour T&P etc. required for the work all complete incl. rubbing as per direction of the Engineer-in-charge

**Unit = Sqm (A/R SOR 2022-Page No-233 New Miscellaneous item-01)**


**Taking output = 10Sqm**


<b>a) Materials</b>				
60 mm Th. M30 Grade of Cement concrete paver block	Sqm	10.000	421.98	4219.80
Fine sand for interlocking	Cum	0.120	76.88	9.23
Course sand for bedding	Cum	0.500	71.94	35.97
				<b>4265.00</b>
<b>b) Labour</b>				
Man Mulia	Each	0.08	385.00	29.49
				<b>29.49</b>
<b>c) Overhead charges @ 7.5% on (a+b)</b>		7.5%	4294.49	<b>322.09</b>
<b>d) Contractor's Profit @ 7.5% on (a+b)</b>		7.5%	4294.49	<b>322.09</b>
<b>e) Carriage &amp; Royalty</b>				
60 mm Th. M30 Grade of Cement concrete paver block	Sqm	10.000	28.28	282.77
Fine sand for interlocking	Cum	0.120	1395.16	167.42
Course sand for bedding	Cum	0.500	571.46	285.73
				<b>735.92</b>

Rate per 10 Sqm = a+b+c+d+e			5674.58
Rate per 1 Sqm =( a+b+c+d+e)/10			567.46
Add towards Labour Cess @ 1%	1%	567.46	5.67
			<u>573.13</u>
		Say	573.10

71 Providing fitting and fixing of ALU sheet in roofing including all cost conveyance taxes etc. complete.

Labour			
Carpenter spl	nos	0.5	495.00
Fitter spl	nos	1	495.00
Mulia	nos	2	345.00
			1432.50
Rate per sqm for Gr Floor		1432.50	/9.3
Cost of GCI sheet 0.4mm	sqm	1.00	774.72
			928.75
c) Overhead charges @ 7.5% on (a+b)		7.5%	928.75
d) Contracor's Profit @ 7.5% on (a+b)		7.5%	928.75
			1068.07
Add cost of Lead	sqm	1.00	0.00
			1068.07
Cess @ 1%			10.68
Rate per sqm			1078.75
			1078.80

  
**Technical Consultant**  
 B.E. in Civil Engg.  
 District Project Co-ordinator  
 Samagra Sikhya Ganjam,  
 Sanakhemundi Block

  
**Asst. Conservator of Forests**  
 Berhampur Division

SITE LAYOUT PLAN



AREA=15651.347 SQMT  
(3.86 ACRES)

1. ENTRY-1 ,ENTRY-2
2. BOUNDARY WALL(CONC. PILLAR AND WIRE MESH-725 MT
3. PAVEMENT 1 WITH CURB AREA-1790 SQMT
4. PAVEMENT 2 WITH CURB AREA-860 SQMT
5. PAVEMENT 3 WITH CURB AREA-320 SQMT
6. SEATING-3 NOS.
7. LAWN AREA INFRONT OF COTTAGE-902SQMT
8. COTTAGE EXTERIOR,INTERIOR WITH FURNITUE
9. DINING WITH SEATING TABLES
10. KITCHEN
11. GARDEN-350 SQMT
12. CHILDREN'S PLAY AREA
13. RAISED PLATFORM FOR LAKE VIEW
14. FOUNTAIN-2 NOS
15. VIP PARKING
16. SEATING BENCH-4NOS.

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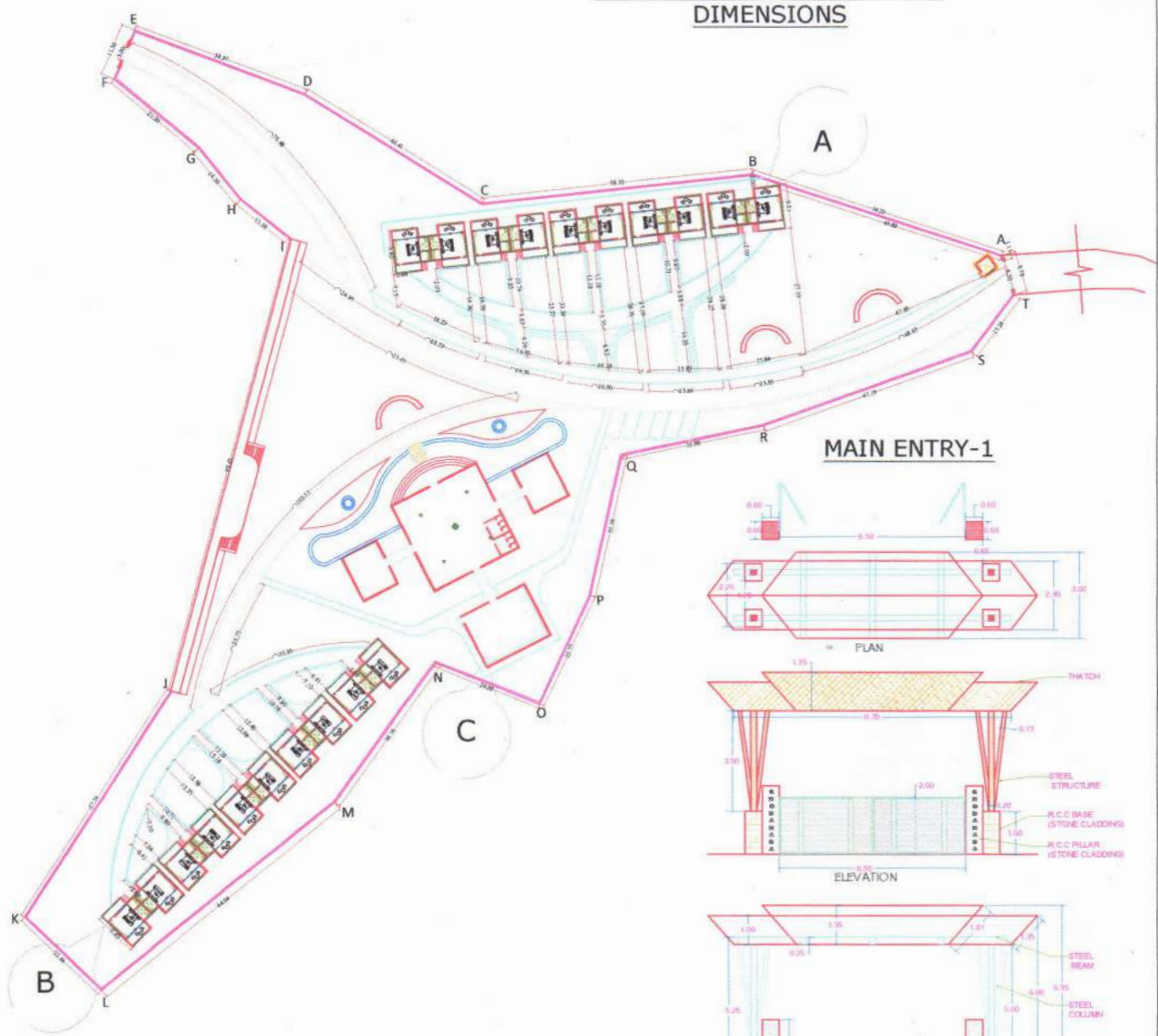
<b>PROJECT</b> ECO RESORT, GHODAHADA, BRAMHAPUR	<b>NOTE</b> 1. ALL DIMENSIONS ARE IN Mtr U.M.O. 2. ONLY WRITTEN DIMENSION SHALL BE FOLLOWED.	DATE: REV. NO. DESCRIPTION: BY:	PROJ. TITLE SITE LAYOUT PLAN	DATE 13-02-2024	SCALE NTS	CLIENT Divisional Forest Officer, Bramhapur	<b>CONSULTING ARCHITECTS</b> Vastukala VASTUKALA WE DESIGN YOUR VISION vastukala.designs@gmail.com contact :- 9438033142
			DESIGNED BY AD. ARADRESHA	CHECKED BY	DATE OF PRIORITY LANDSCAPE DESIGN	ARCHITECT AD. ARADRESHA	

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 B.E. in Civil Engg.  
 District Project Co-ordinator  
 Samagra Sikhya Ganjam,  
 Sanakhmundi Block

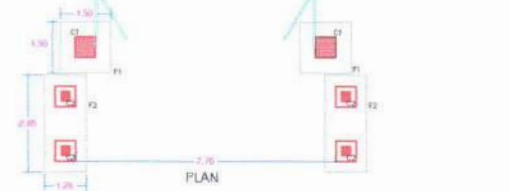
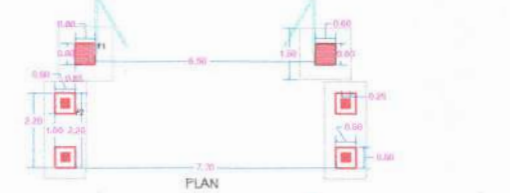
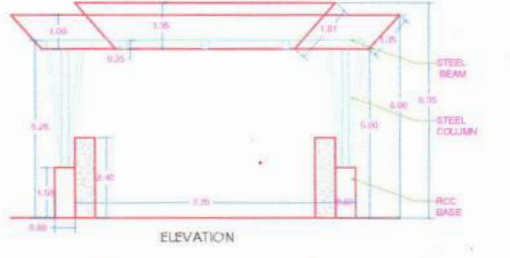
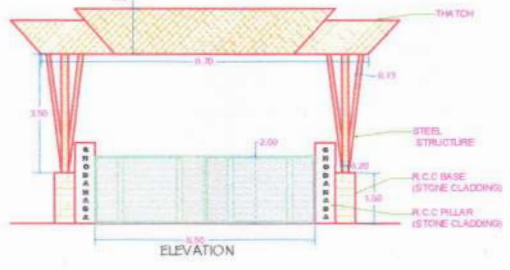
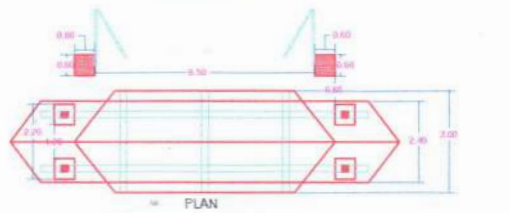
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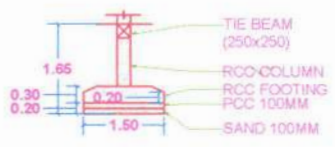
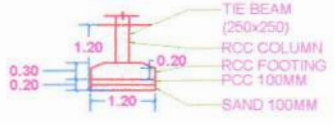
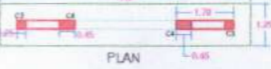
### SITE LAYOUT WITH OVER-ALL DIMENSIONS



#### MAIN ENTRY-1



#### ENTRY-2



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**PROJECT:**  
ECO RESORT, GHODAHADA,  
BRAMHAPUR

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DATE	REV. NO.	DESCRIPTION	BY

**EXPL. TITLE:**  
SITE LAYOUT  
PLAN WITH  
DIMENSIONS

**DATE:**  
13-02-2024

**SCALE:**  
NTS

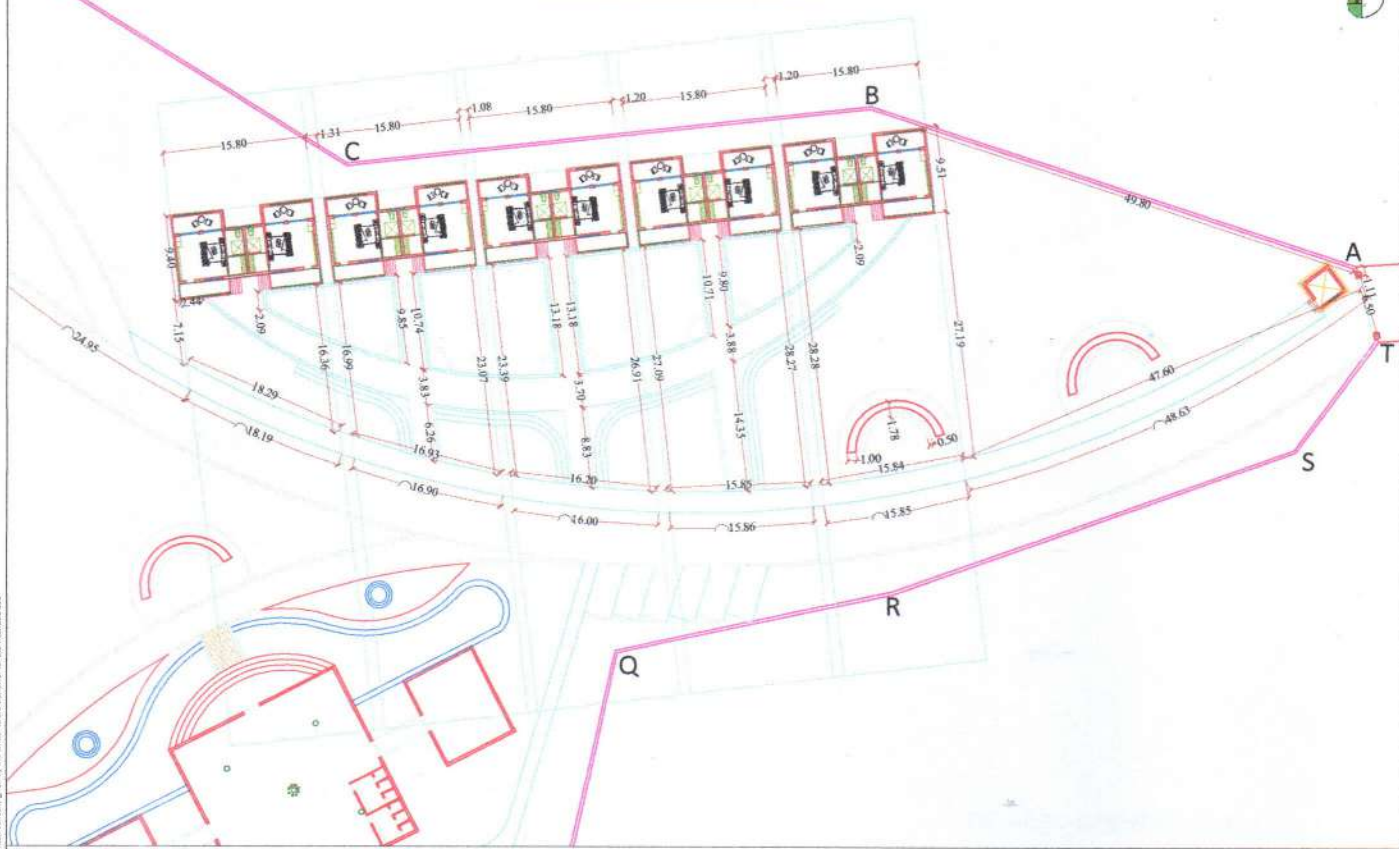
**CLIENT:**  
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**DETAILED DIMENSIONS AT A**



**DETAILED DIMENSIONS AT B**



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WORKING DRAWING	DATE 13-02-2024
 VASTUKALA CONSULTING ARCHITECTS	SCALE NTS
	SURVEY Divisional Forest Officer, Bramhapur

DESIGN NO. VANR803250403	REV. NO. 00
DESIGNER BY 	CHECKED BY 

TYPE OF PROJECT LANDSCAPE DESIGN	ARCHITECT AR. ARAZIBANA
--	----------------------------

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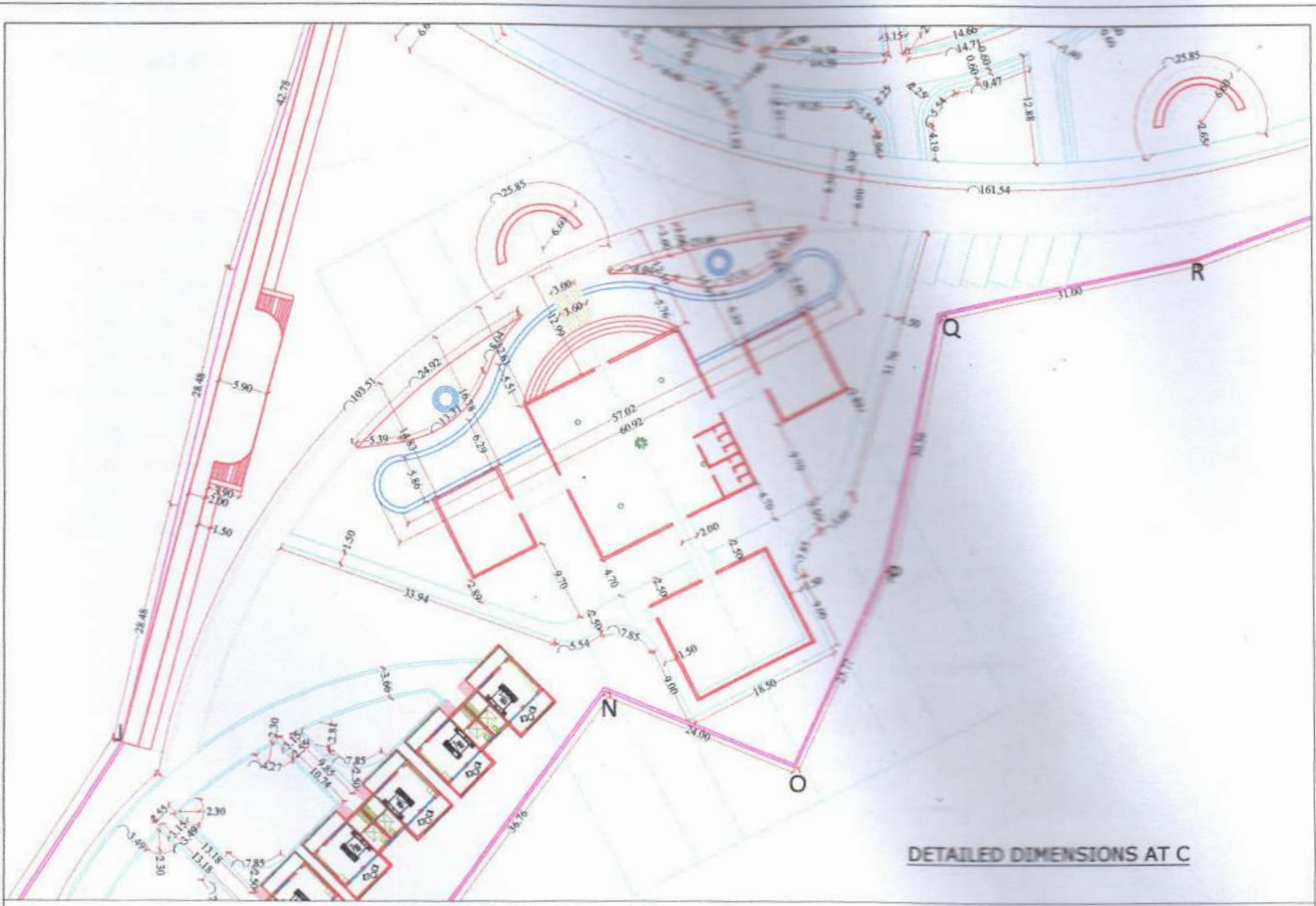
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 District Project Co-ordinator  
 Samagra Sikhya Ganjam,  
 Sanakhemundi Block

*Signature*  
**Asst. Conservator of Fores**  
 Berhampur Division

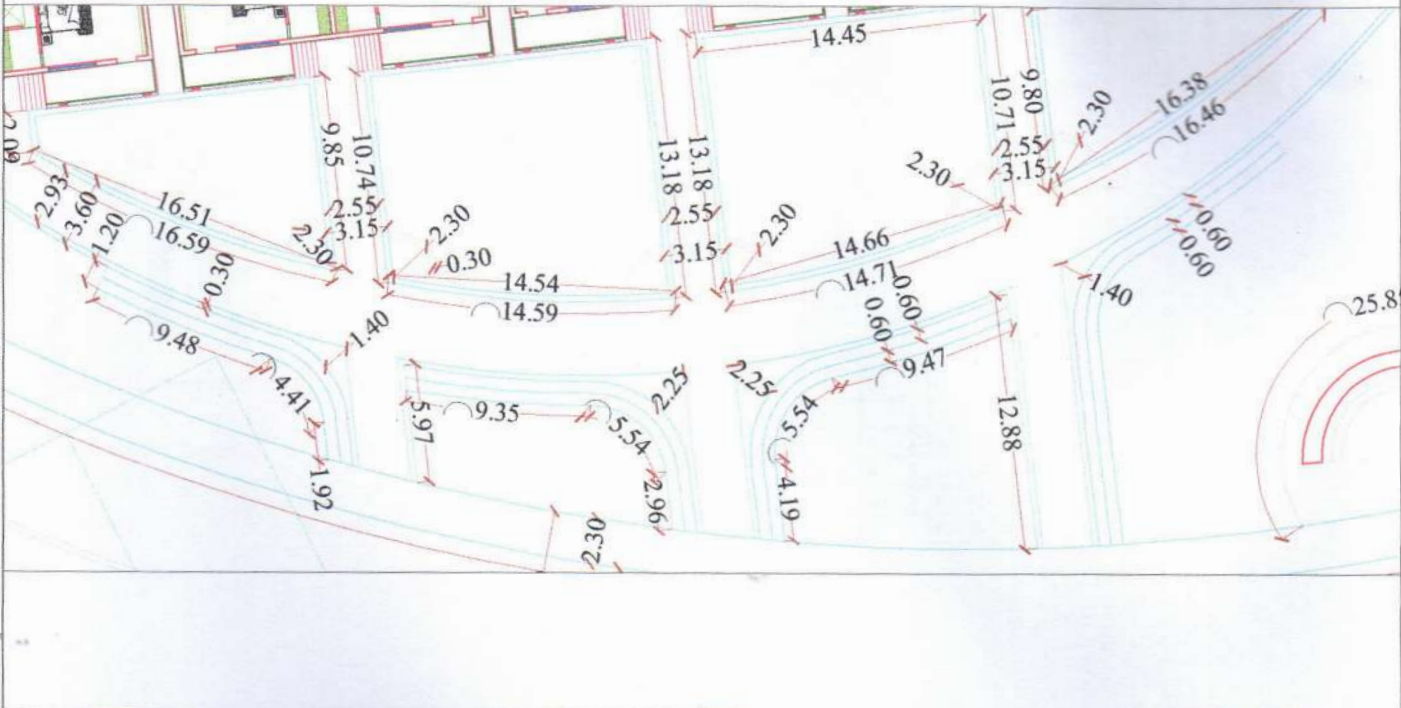


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**DETAILED DIMENSIONS AT C**

**SEATING DETAILS**

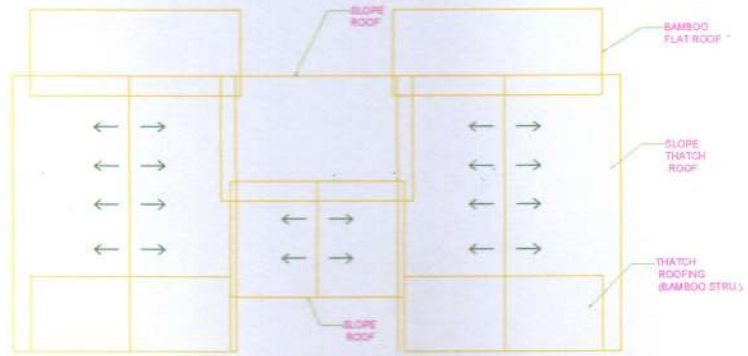
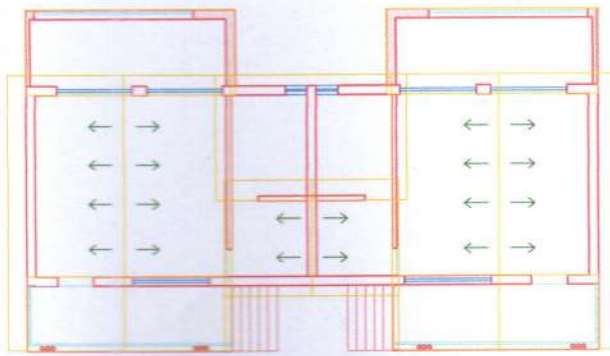


<b>PROJECT</b> ECO RESORT, GHODAHADA, BRAMHAPUR	<b>NOTE</b> 1. ALL DIMENSIONS ARE IN Mtr U.M.O. 2. ONLY WRITTEN DIMENSION SHALL BE FOLLOWED.	<table border="1"> <thead> <tr> <th>DATE</th> <th>REV. NO.</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	DATE	REV. NO.	DESCRIPTION	BY					<b>PRG TITLE</b> WORKING DRAWING	<b>DATE</b> 13-02-2024	<b>SCALE</b> NTS	<b>CLIENT</b> Divisional Forest Officer, Bramhapur	<b>CONSULTING ARCHITECTS</b> VASTUKALA WE DESIGN YOUR VISIONS vstukala.designs@gmail.com contact :- 9438033142
			DATE	REV. NO.	DESCRIPTION	BY									
<b>ARCHITECT</b> AR. ARADHANA	<b>DESIGNER</b> AR. ARADHANA	<b>DATE</b> 13-02-2024	<b>SCALE</b> NTS	<b>CLIENT</b> Divisional Forest Officer, Bramhapur											

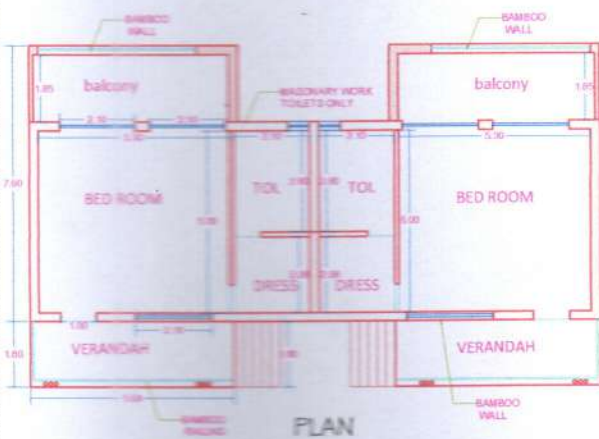
*Siddharth*  
 Technical Consultant  
 B.E. in Civil Engg.  
 District Project Co-ordinator  
 Samagra Sikhya Ganjam,

*Aradhana*  
 Asst. Conservator of Forest  
 Parhamnur Division

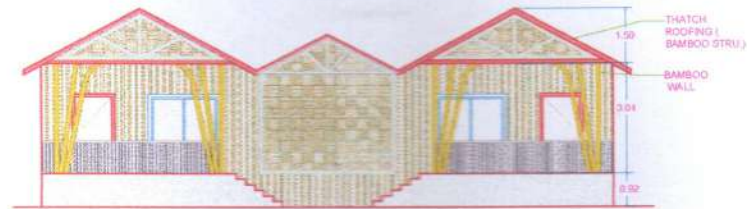
**COTTAGE DETAILS**



**ROOF PLAN**



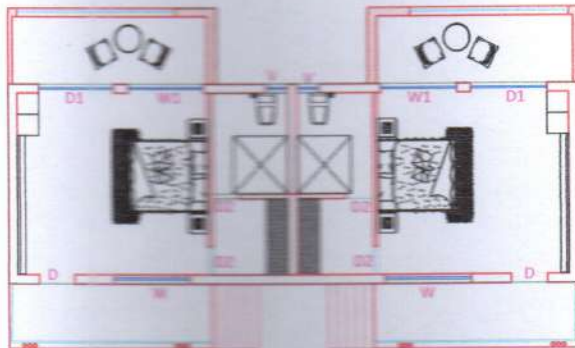
**PLAN**



**FRONT ELEVATION**



**REAR ELEVATION**



**FURNITURE LAYOUT**

DOOR & WINDOW SCHEDULE			
SL. NO	TYPE	SIZE	DESCRIPTION
1	D	1.00 X 2.10	T.W. FRAMED PANELLED DOOR
2	D1	1.20 X 2.10	ALL SLIDING DOOR
3	D2	0.75 X 2.10	PVC DOOR
4	W	1.50 X 1.35	FRAMED GLAZED WINDOW
5	W1	1.20 X 2.10	FRAMED GLAZED WINDOW
6	V	0.60 X 0.60	FIXED LOUVRE

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ECO RESORT, GHODAHADA,  
BRAMHAPUR

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DATE	REV. NO.	DESCRIPTION	BY

DES. TITLE:  
WORKING DRAWING

DATE:  
13-02-2004

SCALE:  
NTS

CLIENT:  
Divisional Forest Officer, Bramhapur

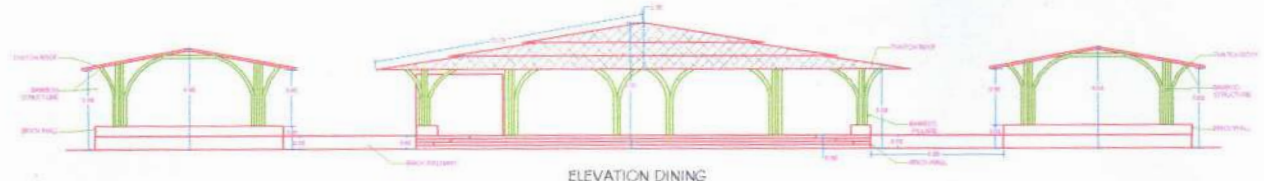
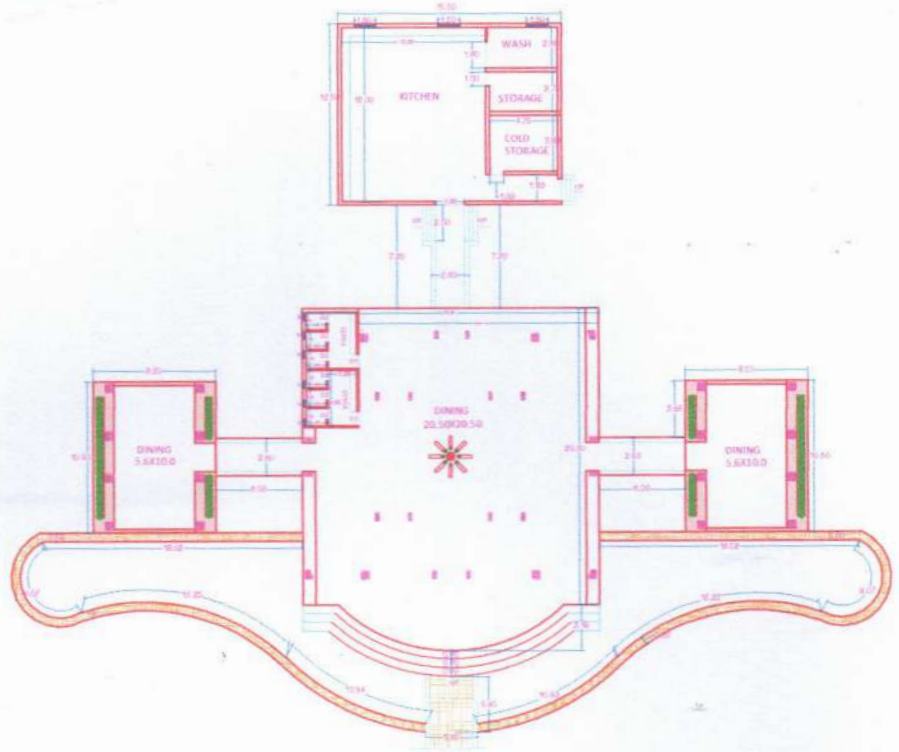
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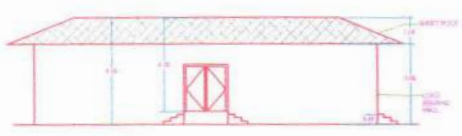
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Berhampur Division



**DINING AND KITCHEN DETAILS**

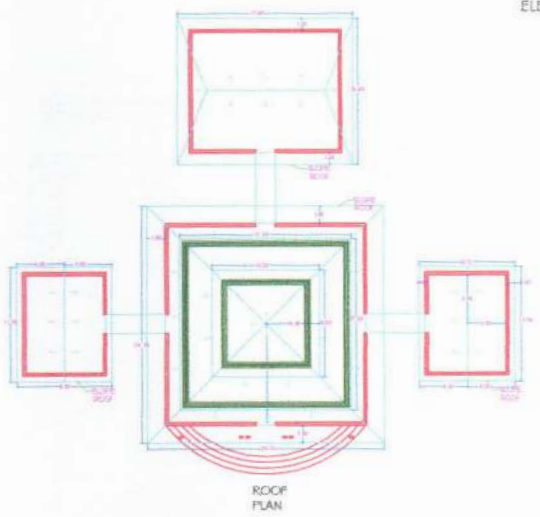


ELEVATION DINING

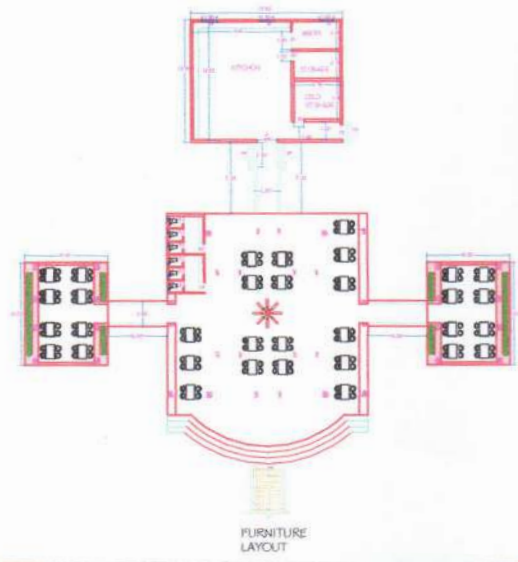


ELEVATION KITCHEN

NO.	TYPE	DETAILS
1	2.00 X 2.00	WALL MOUNTED
2	1.00 X 1.00	WALL MOUNTED
3	0.75 X 1.00	WALL MOUNTED
4	0.75 X 1.00	WALL MOUNTED
5	1.00 X 1.00	WALL MOUNTED
6	1.00 X 1.00	WALL MOUNTED



ROOF PLAN



FURNITURE LAYOUT

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**PROJECT**  
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DATE	REV. NO.	DESCRIPTION	BY

**DRG. TITLE**  
WORKING DRAWING

**DATE**  
13-02-2024

**SCALE**  
MTS

**CLIENT**  
Divisional Forest Officer, Bramhapur

**DRG. NO.**  
WV/2024/02/001

**REV. NO.**  
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**TYPE OF PROJECT**  
LANDSCAPE DESIGN

**DESIGNER**  
AR. ASADRAHA

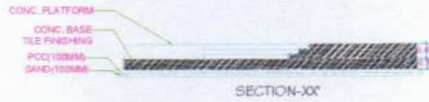
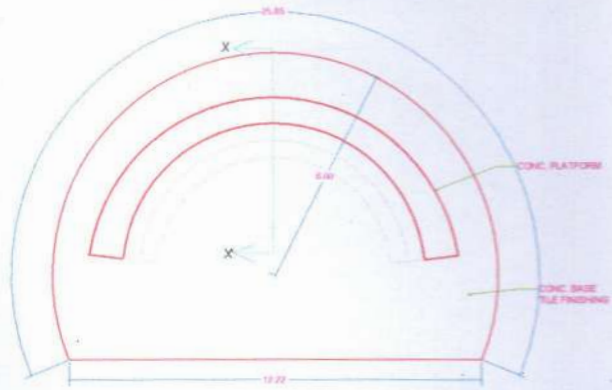
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*Chitra*  
Technical Consultant  
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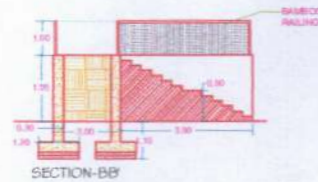
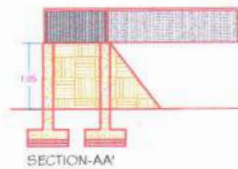
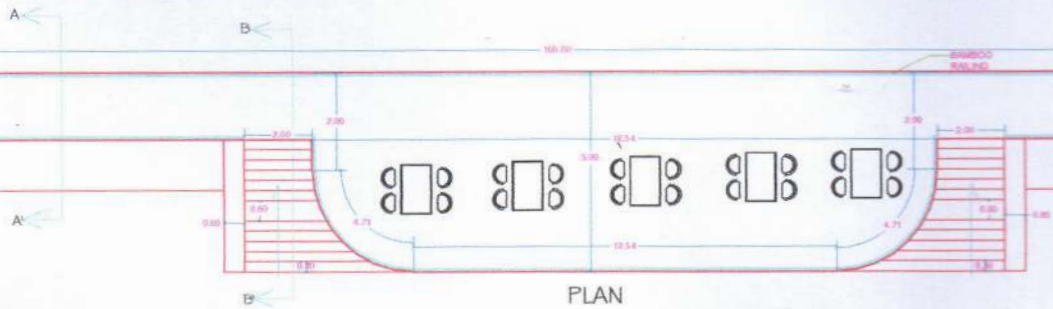
*Praveen*



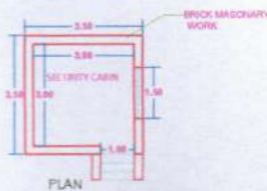
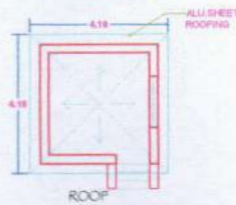
**SEATER**



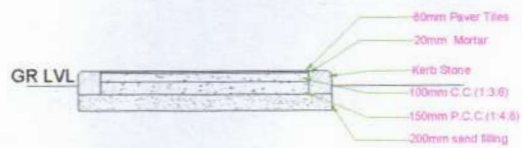
**RAISED PLATFORM FOR LAKE VIEW**



**SECURITY CABIN**



**PAVEMENT DETAILS**



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**PROJECT**  
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<b>DESIGNER</b> N	<b>REV. NO.</b> 00	<b>CHECKED BY</b>	<b>CONSULTING ARCHITECTS</b> VASTUKALA
<b>DRAWN BY</b>	<b>CHECKED BY</b>	<b>ARCHITECT</b> A.R. ABADSEKHA	<b>CONTACT</b> vastukala.designs@gmail.com contact - 94380931

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