

**RANCHI MUNICIPAL  
CORPORATION  
RANCHI**



**Issued to:  
Name of Contractor:**

**Address:**

**Phone No. Mobile:**

**Land line Phone with Code:**

**Receipt No.....**

**Dated:**

**Signature of Issuing Authority:.....**

**“CONSTRUCTION OF DWELLING UNITS & DEVELOPMENT  
OF INFRASTRUCTURE AT MADHUKAM, RANCHI UNDER  
BSUP PROGRAMME”**

**BID DOCUMENT VOLUME II**

**(PRICE BID)  
(SECTION – 7)**

**Estimated Cost: Rs. 1447.6 Lakh  
Bid Security: Rs. 28.95 Lakh**

**Ranchi Municipal Corporation  
Ranchi**

**RANCHI BSUP PROJECT, PACKAGE  
(Under JNNURM)**

**Tender: "CONSTRUCTION OF DWELLING UNITS & DEVELOPMENT OF  
INFRASTRUCTURE"**

**Madhukam Slum**

**VOLUME 2: PRICE-BID**

**Section 7  
Table of Contents**

| <b>SL. NO,</b> | <b>ITEMS</b>   | <b>PAGE NO.</b> |
|----------------|--|-----------------|
| <b>1.</b>      | General Conditions For Filling Rates   | <b>7-2</b>      |
| <b>2.</b>      | Bill of Quantities of the units to be executed   | <b>7-14</b>     |
| <b>3.</b>      | Rates to be Quoted by the Bidder on % of rates of Bill of Quantities   | <b>7-77</b>     |
| <b>4.</b>      | Summary of Cost of Works Based on Rates Quoted by the Bidder including LS rate for Digester to be filled by the Bidder | <b>7-77</b>     |
| <b>5.</b>      | ANNEXURE Unit Estimate of Drains   | <b>7-78</b>     |

**Section 1: Instructions to Bidders****GENERAL INSTRUCTIONS FOR FILLING RATES**

**The price bid document is for “CONSTRUCTION OF DWELLING UNITS &  
DEVELOPMENT OF INFRASTRUCTURE” PACKAGE 1.2  
Madhukam slum**

**SCOPE OF WORK:** The Bid includes following works for Madhukam Slum Ranchi

| <b>Sl. No.</b> | <b>WORKS</b>   | <b>Quantity</b>  |
|----------------|--|--|
| 1.             | Cartage of Building Materials for Flats, Community Center, Livelihood Center, Parks, & Digestor                                | As per BOQ   |
| 2.             | G+3 Clusters   | 28 nos. full & 1 half  |
| 3.             | Community Center   | One no.  |
| 4.             | Livelihood Centers   | One No.  |
| 5.             | External Drainage Works  | As per BOQ   |
| 6.             | Development of Parks   | As per BOQ & Drawing   |
| 7.             | Internal Road Work & BOE around clusters   | As per BOQ   |
| 8.             | Digestors & its accessories for 500 House Holds Design, Execute and maintain on BOT basis                                      | 1nos. on Turn Key Basis<br>The rate should be quoted in amount in Abstract of Cost |
| 9.             | External Sewerage & Appurtenances  | As per BOQ   |
| 10.            | External Water Supply System   | As per BOQ   |
| 11.            | Under Ground and Terrace Reservoirs and Pumping System including laying of pipe system to connect internal network of pipeline | As per BOQ   |
| 12.            | India Mark II Hand Pumps   | 7 nos.   |
| 13.            | External Electrification & Street Lighting to be executed through Jharkhand State Electricity Board in both the Slums.         | As per estimate to be received from Jharkhand State Electricity Board              |

**The Bidder should note that:****1.0 General**

- 1.1 The Contractor shall be deemed to have read and examined the Tender Documents before quoting the rates of all items in the Bill of Quantities and the Schedule of Rates. The Drawings, Specifications, Schedules etc. are to be considered as explanatory of each other and no advantage shall be taken of any omission in tender documents.
- 1.2 The Contractor shall be deemed to be fully conversant with and to have made full allowance in his Tender for the site conditions, the nature and complexity of the work to be undertaken, the other extensive developments and construction work currently being or which may be executed on and around the Site and all changes in the nature and condition of the Site from that existing at the time of Tender.
- 1.3 General directions and descriptions of Scope of Work and materials given in the Specification or shown on the Drawings are not necessarily repeated in the Bill of Quantities and reference is to be made to the Specification and the Drawings for this information.
- 1.4 The Bill of Quantities is an estimate of the quantities of work involved and is to be used as a basis for pricing of the Tender and for valuation of the work executed, in conjunction with instructions to Bidders, Terms and Conditions of Contract, General/ Special and Technical specifications and Drawings.
- 1.5 Due to the nature of the work, all quantities shown in the Bill of Quantities are approximate only and may be subject to variation. The quantities shown should not be considered as limiting or extending the amount of work to be done and material to be supplied by the Contractor. The contractor shall ascertain the actual quantities of materials required before placing orders. The payment for actual quantity used at site shall only be made. No payment for wastage or surplus quantity brought at site shall be made to contractor.
- 1.6 The rates quoted in the schedule shall be the all inclusive value for the work described and be deemed to include for all the Contractor's liabilities and obligations and all risks set forth or implied in the document and all matters and things necessary for the proper construction, of the Works including surveying,

setting out, plant, labour, supervisor, materials, erection, maintenance, insurance, profit, taxes and duties together with all general risks liabilities and obligations set out or implied in the Contract. The Charge for any obligation of the Contractor for which apparently no corresponding item is given in the Bills of Quantities shall be deemed to be included in the Contract Rates and Prices entered against the billed items.

- 1.7 Quantities given in the annexed Bill of Quantities for the various items are approximate only and are given to provide a common basis for tendering. The basis of payment will be the actual quantities of work done, as measured by the Engineer and valued at the rates or prices quoted in the Bills of Quantities where applicable, and otherwise at such rates for prices as may be fixed within the terms of the contract. Variations in the quantities of work in the Schedule shall not vitiate the contract.
- 1.8 Extra items of work shall not vitiate the Contract. The Contractor shall be bound to execute extra items of work as directed by the Engineer in Charge in writing. The rates for extra items will be as per rates decided under Contract Conditions
- 1.9 It is to be expressly understood that the measured work is to be taken net (not withstanding any system or practice to the contrary) according to the actual quantities wherein finished according to the Drawings or as may be ordered from time to time by the Project Manger/Engineer in Charge and the cost calculated at the respective prices, without any additional charges for any necessary or contingent works connected therewith. The rates quoted are for works in-situ and complete in every respect. Unless the Bill of Quantities specially indicates to the contrary, the constructional plant and temporary works will not be measured.
- 1.10 Unless otherwise stated, all items are measured net and no allowance will be made for wastage, working space, bulking or shrinkage, overlaps and the like.
- 1.11 All works shall be carried out strictly as per BIS (with latest revision) and Indian Standard Specifications (amended from time to time) and if not specified, the works shall be carried out as per the directions of the Project Manger/Engineer in Charge.
- 1.12 The method of measurement of completed works for payment shall generally be in accordance with the relevant Indian Standard Specifications. IS: 1200 –1979 for Method of Measurement of Building and Civil Engineering Works (Part I to XVI).

Laying of Water and Sewer Lines Including Appurtenant Items (Third Revision) and Part XIX-1981 for Water Supply, Plumbing and Drains (Third Revision) unless described otherwise in the following clauses.

- 1.13 The unit rate should be entered against each item in the Bill of Quantities and shall be written in ink both in figures and words. Any item price left blank will be deemed to be included for elsewhere in the Bill of Quantities or the Schedule and hence the rate for that item will be taken as NIL.
- 1.14 In case any discrepancy is found between the quoted rates and the amounts, the rates will be considered as correct. In case any discrepancy is found between figures and words quoted for rates, then the figures quoted in words will be taken as correct. The rate column should be filled in figures legibly; similarly the amount columns should be filled in figures and words legibly.
- 1.15 In view of the site location and their prevailing condition, it is mandatory to the Contractor to visit the site and make himself thoroughly familiar with the site conditions, access and account for all possible difficulties and other requirements mentioned elsewhere in his bid prior to submission. When a contractor submits his bid for this work, it will be considered that he has quoted for this work with full and complete knowledge of the site and prevailing conditions, and no claim for additional compensation shall be entertained on this account.
- 1.16 All works such as obtaining necessary permissions, supply connections, etc. relating to establishing of electric supply, water supply from the related agencies to all the units constructed under this contract are required to be carried out by the Contractor.
- 1.17 In the Bill of Quantities "Specification", "Clause" and "Table" refer to the Technical Specifications. These specifications shall be treated as integral part of the Bill of Quantities. "Drawings" refers to the Contract Drawings as described in the conditions of Contract and elsewhere in the Tender Documents.
- 1.18 Rates for all items of works shall be inclusive of all lead and lifts unless otherwise specified.
- 1.19 The Contractor has to make arrangement of testing of Concrete Cubes and Bricks and making cubes of the concrete being used for the work. Also arrangement for Sieve Analysis for the ingredients of mixes and slump test for concrete at every site

for quality control of his works and a site office for the Engineer. The maintenance cost will not be paid separately, but will be incidental to the Contract. All cost of sampling and testing and site office is to be provided by the contractor and there is no separate BOQ item for it in the contract, so it will be incidental to the contract and shall not be paid separately.

- 1.20 The Contractor shall carry out all field tests, inspection of materials at site, tests for leakage and commissioning, required for quality assurance and quantity control for successful completion/commissioning of the plants/ works, for which no extra payment will be made.
- 1.21 In the absence of any stipulation to the contrary, rates quoted for different items of works are for completing the works to the specifications including full compensation for all those operations detailed in the relevant section of the specifications under 'rates'.
- 1.22 The rates quoted are to be considered as the full inclusive rate for the finished work, covering all labor, material, royalties, lease, wastage, plant equipment, overhead charges and profit etc.
- 1.23 Mode of measurements shall be as per provisions contained in the relevant clauses of the specification unless other wise specified.
- 1.24 The rates includes the element of hire charges of all types of plants, machinery, godowns and equipment required as specified in Bill of Quantities to complete the work unless otherwise specified. The rates include all cleaning operations.
- 1.25 The make and specifications of the electrical/mechanical/ instrumentation machinery/ equipments has to be approved by the Project Manger/Engineer in Charge prior to the supply of the machinery/ equipments.
- 1.26 The As-Built drawings have to be submitted by the contractor as per the work plan and no extra cost will be paid.

## **2.0 Civil Structures and Associated Works**

### **2.1 Earthworks - Excavation**

- 2.1.1 Separate items are provided for excavation for site works and for excavation for structures. The unit of measurement shall be cubic meters.

2.1.2 The unit of measurement for excavation shall be in cubic meters for the specified width. The depth of the excavation shall be measured at every 30 m and the average of the two shall be considered for payment within that section as per the rate quoted in Bill of quantity. No extra payment shall be made for the excavation done for extra width and depth.

2.1.3 The rate for excavation shall include extra excavation for socket, charges for shoring, strutting, bailing and pumping out water whenever necessary, supports for underground services back filling, disposal of surplus earth, watch and ward and protective barricade and danger light etc. where required and no extra payment shall be made for any of these contingent works.

## **2.2 Dismantling:**

2.2.1 Any salvage material recovered from demolition shall be either disposed of or shall be transported to Municipal Corporation store as per instructions of the Engineer in Charge.

## **2.3 Disposal of Surplus Earth/ Salvage Materials**

2.3.1 Disposal of surplus earth will be done at any suitable place within a lead of 50m identified by the contractor in consultation with the Project Manager/Engineer in Charge.

2.3.2 In absence of identified suitable place/s the contractor will be required to dispose off the surplus earth at appropriate place but no extra lead shall be paid. In case it is used for plinth filling as per instructions of Engineer in Charge the cost of earth shall not be paid separately.

## **3.0 Concrete**

3.1 The unit of measurement for concrete where measured separately shall be in cubic meter. The rates for concrete in structures such as anchor/thrust block, nalla crossing shall include all works as described in Bill of quantities and specifications.

## **4.0 Steel Reinforcement**

4.1 The steel should be procured from the original billet manufacturer. The rates for steel reinforcement for structures shall include all works at various levels including foundation and superstructure and shall be measured in kg.



**5.0 Cement**

5.1 ISI marked OPC cement Grade 43/53 shall be used for water retaining structures.. For all other works Puzzolona Cement can be used if OPC cement is not available.

**6.0 Brick and Stone Masonry**

6.1 Bricks required for masonry shall be approved by Project Manger/Engineer in Charge and shall be as per the standard specifications and Natural stone required for stone masonry shall only be obtained from approved Quarry. The rates for this work shall include all lead and lift of foundation and superstructures.

**7.0 Finishes**

7.1 Only standard finishes of first grade quality shall be used.

7.2 The unit of measurement for finishes shall be square meters. The area to be considered for payment shall be the finished area shown on the Drawings or as measured at site. Separate items are provided for each item of work.

**8.0 Pipelines**

8.1 The unit of measurement for pipeline measured in linear meters correct to a cm. The specials shall be measured separately. The length of pipelines shall be measured along the centreline of the pipeline between termination points and shall exclude lengths of fittings, specials and valves. In running lengths sockets shall jnot be paid separately.

**9.0 Approaches to Work Sites**

9.1 Constructing suitable access routes for conveniently transporting construction materials and excavated material, for which no payment will be made.

9.2 Suitable barricading shall be erected along the periphery of the site immediately after the award of work and maintain it during execution of the work till handing over the site to the Client. The barricading should be sufficiently strong to prevent falling of any material on the densely populated area, located down the hill, besides protection to the site personnel and labour working at the site.

**10.0 Safety**

- 10.1 The safety requirements stipulated in the IS Codes and the contract agreement should be fully complied with, before and during execution of any component of the work. The following IS Codes should be referred for safety during construction - IS 3764 : 1992 Excavation work – Code of Safety; IS 4081 : 1986 Blasting and Related Drilling Operations; IS 7969 : 1975 Handling and Storage of Building Materials and IS 7293 : 1974 Working with Construction Machinery.
- 10.2 It should be ensured that the barricading has been carried out properly; all safety measures have to be carried out by the contractor in accordance with the requirements for safe execution of the work; display boards for diversion, warning, work in progress, schedule of completion of activity in the area are displayed at required places; proper lighting arrangement at work sites are made during night for convenience & safety of the public; tight fitting clothes or uniforms, helmets, hand gloves, protective footwear and eye goggles for workers at site and other adequate safety measures are properly attended at the site.
- 11.0 Flow Diversion**
- 11.1 The contractor shall make all necessary arrangements for diversion of flow required during execution of work and no extra payment; shall be made for the same.
- 11.2 If water is met within the excavation, due to springs, seepage, rain or other causes, it shall be removed by suitable diversion, pumping or bailing out and the excavation is kept dry whenever so required or directed by the Project Manger/Engineer in Charge. Care shall be taken to discharge the drained water into suitable outlet as not to cause damage to the works, crops or any other property. Due to any negligence on the part of the Contractor, if any such damage is caused, it shall be the sole responsibility of the Contractor to repair/restore to the original condition at his own cost or compensate for the damage. Sumps made for dewatering must be kept clear of the excavation / trenches required for further work. Method of pumping shall be approved by Project Manger/Engineer in Charge, but in any case, the pumping arrangement shall be such that there shall be no movement of subsoil or; blowing in due to differential head of water during pumping. Pumping arrangements shall be adequate to ensure no delays in construction.
- 11.3 All excavations shall be kept free of water. Grading in the vicinity of excavations shall be controlled to prevent surface water running into excavated areas.

- 11.4 Unless separately provided for in the Bill of quantities, dewatering is deemed to have been included in the unit rates quoted for excavation. If separately provided for, the unit of measurement shall be as indicated in the Bill of quantities.”

## 12.0 Fittings

- 12.1. Fittings such as bends, tees, tapers, bell mouths, gap pieces and the like on pipe work within chambers and thrust blocks shall be measured as separate item and in actual weight, which if exceeds the theoretical weight, the theoretical weight shall be considered for payment.
- 12.2. The rates for pipe and fittings shall include for all plant, materials and labour necessary to install the pipe work at any depth in the locations shown on the Drawings or as otherwise instructed in accordance with the Specification and shall also include for pipes of any material, all installation and short lengths of pipe, couplings, adapters, puddle flanges, blank flanges, distance indicators and final painting.
- 12.3. Valves shall be measured separately by number. Separate items are provided for each type of valve.
- 12.4. The rates for valves shall include for all additional plant, materials and labour necessary for the satisfactory installation and testing of the valves in accordance with the Specification at any location and at any depth. The valve chambers shall be measured in numbers built as per drawings and specifications.
- 12.5. The rate for interconnection shall include all fittings, jointing materials, excavation, dewatering, and isolation and re-commissioning of pipeline and shall be measured in numbers.

## GENERAL

- 13.0 For all bituminous works, bitumen of penetration grade of 60/70 shall be used unless otherwise specified in the item of Bill of Quantities.
- 14.0 Some works are likely to be got executed by the state agencies required for completion of the work, like-
- Overhead and underground (if any) Electricity lines belonging to Jharkhand State Electricity Board and telephone cables belonging to BSNL etc..

- Water supply lines belonging to PHED/ Municipal Corporation.

The necessary amounts may be required to be deposited to these agencies.. The contractor has to pay to State Electricity Board, Jharkhand an amount as prescribed by Jharkhand State Electricity Board, after approval of the Project Manger/Engineer in Charge, as cost on the work and/or supervision charges of for the electricity line shifting. After approval of the Project manger/Engineer in Charge, the amount will be reimbursed with the actual amount deposited. For all new works executed through Jharkhand State Electricity Board and PHED a 5% processing charge over actual payments made and original receipts enclosed with the running Bills shall be made. In such cases all pursuance with the concerned department shall be done by the Contractor. Ranchi Municipal Corporation shall assist in getting this process.

- 15.0 All utility shifting and protective work shall be carried out only with the approval of the Project Manager/Engineer in Charge as per specification and under the strict supervision of the concerned Department/ agency. For this purpose, the Contractor shall be in constant touch with the agencies.
- 16.0 The serviceable materials, recovered while shifting of utilities as ascertained by the Project Manger/ Engineer in Charge, shall be deposited at designated store yards or as directed by the Project Manger Engineer in Charge /. No payment shall be made to the Contractor in this regard.
- 17.0 The rates and prices in the bill of quantities shall include for all taxes and duties levied according to the laws and regulation on Government of Jharkhand and Government of India
- 18.0 Unless stated otherwise, all rates and prices entered in the Bill of Quantities shall be deemed to include the following.
  - (a) Labour and all costs in connection with the execution and maintenance of the work.
  - (b) The supply of the materials, goods, storage and all costs in connection therewith including wastage, shrinkage and delivery to site.
  - (c) Plant, Equipment and all costs in connection therewith.
  - (d) Sampling and testing materials and goods, testing workmanship, providing, storing, packing and transporting samples to and from the place of testing.

- (e) Fixing, erecting, installing or placing of materials and goods in position.
  - (f) Excavating in wet soil including necessary dewatering.
  - (g) Disposal of surplus and unsuitable materials and goods and excavated material, at a suitable location.
  - (h) All Temporary works.
  - (i) Construction and maintenance of temporary access roads within the site and of any roads required for access to any part of the site for the purpose of carrying out the works, taking into account that the access roads under the contractor's maintenance control will also be used by the Employer and his staff's vehicles.
  - (j) Construction, maintenance and removal, if required, of temporary site drainage on the site, and for ensuring that all drains are kept clear of debris and blockage at all items.
  - (k) All general obligations, liabilities and risks involved in the execution and maintenance of the work set forth or reasonably implied in the document on which the Tender is based.
  - (l) Establishment charge, overheads and profits.
  - (m) Co-operating with other contractors.
  - (n) The prices for transportation included in any of the items in the Bill of Quantities are to include for all labour and equipment required for unpacking, loading, conveying, unloading, storing and multiple handling of all and every items to be transported.
- .
1. The bidder shall quote his firm price for different works as outlined above IN THIS PRICE BID AS PER Technical Specifications in Volume I Section 3 OF THE TENDER DOCUMENT.
  2. The price shall be submitted in the formats given in the Price Schedules given after the Bill of Quantities in Volume 2 Price Bid. Price bid received in any other formats shall be rejected and the Bids will be disqualified. Summary of schedule price to be carried over to form of summary in which a Contractor is required to transfer the quotation bided by him for each work.. If there is any discrepancy between two

figures then, the lower shall be considered for evaluation. Similarly, figures given in words shall be considered final for evaluation.

3. The rates are to be quoted on % of rates mentioned in the Bill of Quantities. **For Digester rates are to be quoted on Lump Sum Basis as a Turn Key Project which includes Built Operate and Transfer System.**
4. Also the contractor shall be responsible for eighteen months or two rainy seasons after the issuance of completion certificate as defect liability period in which if any defect in execution is noticed the contractor shall rectify the defect in the structure and machinery at his cost and expenses.
5. It will be entirely at the discretion of the Employer to accept or reject the bidder's proposal, without giving any reasons whatsoever and the bidder shall not be permitted to withdraw his bid on this account. **In Summary of Price Schedule, bidder shall quote his price in for each work based on % above/equal/below the rates of Bill of Quantities separate as shown in the schedule in a tabular form**
6. Each sub work is to be individually priced in ink to arrive at the "Total of Work Price (Bid Price)".
7. For interim payment for construction, the Engineer in-charge shall assess the quantity executed as per the specification laid down based on completed items after taking measurements but in the case of lump sum items the decision as to the percentage of work done shall be assessed as per details given in the tender document or assessment of Engineer-in Charge.
8. Only Summary of Price Schedule shall be considered for financial evaluation of the bid. .
9. The bidder shall be deemed to have allowed in his price for provision, maintenance and final removal of all temporary works of whatsoever nature required for construction including temporary bunds, diverting water, pumping, dewatering etc. for the proper execution of works. The rates shall also be deemed to include any works and setting out that may be required to be carried out for layout of all the works involved.
10. The Price Schedules are to be read in conjunction with the Conditions of Contract, conditions of particular application the specifications and other sections of these bid documents and these documents are to be taken as mutually explanatory and complementary of one another.
11. Prices quoted by the bidder shall be firm for the entire period of Contract without any escalation on what so ever reason thereof.
12. The bidder shall interpret the data furnished and carry out detail survey or soil investigation work required at his own cost.

13. The prices quoted shall also include the cost of materials and equipments and consumables utilized for testing.
14. The bidder shall acquaint himself with the site conditions including the access to Worksite. The successful bidder shall have to make suitable access to worksites at his own

### **PAYMENT SCHEDULE**

The payment shall be made after measurements of the concerned item is taken after completion of that item as per specifications and after test reports of the samples taken at the time of execution are received from the test laboratory/site testing of samples and the item is found to be in order as per drawing and design of the structure. However in all cases interim and final payments shall be done as per situations indicated below:

#### **A) Interim payment**

- i) The first step is to assess the quantity of the particular item executed by the contractor.
- ii) The rate of such item, if available in the particular schedule shall be considered for arriving at the value of work.
- iii) Keeping in the percentage amount of increase/ decrease bided by the contractor in lump sum quotation as available in either Summary of Price Schedule or respective Schedule of Sub-work, the rate of item shall be increased/ decreased by that percentage.
- iv) Then multiplying this rate with the quantity assessed, the approximate value of quantity of a particular item shall be calculated and recommended for payment. All assessment shall be made cautiously and over payment shall be avoided but if by mistake any payment is done for which work has not been executed or the executed work is not up to the mark based on test reports or the work has not been executed as per drawing and design a recovery can be made from the very next bill or subsequent bills if noticed after the next bill and it shall be paid only when the faulty work has been set right.

#### **B) Final payment**

During execution, the contractor shall have to plan and execute the various works covered under this package exactly as per the design and drawings and duly approved by the Employer. That means, that types and sizes of pipeline system including the appurtenances, manholes and their covers, accessories, testing etc. including the cement concrete proportion, arrangement and numbers of steel bars for each structural member, the dimensions size and shape of each member, configuration of the frame work, foundation depth, shall be executed exactly as per the approved drawing. Under no circumstances any variations or modifications in any parameters and structural members, excess saving, extra items, new items shall be entertained. However, in certain special circumstances, if Employer feels for any changes and modifications and variations etc. in large interest of the work it shall be attended but in case of lump sum contracts no extra payment shall be made.

| <b>"CONSTRUCTION OF DWELLING UNITS &amp; DEVELOPMENT OF INFRASTRUCTURE Madhukom<br/>under Ranchi BSUP Programme"<br/>(Madhukam Slum)</b> |  |             |                 |                           |                             |
|--|--|-------------|-----------------|---------------------------|-----------------------------|
| <b>BILL OF QUANTITIES</b>  |  |             |                 |                           |                             |
| <b>Item No.</b>  | <b>Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Estimated Rate Rs.</b> | <b>Estimated Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>   | <b>3</b>    | <b>4</b>        | <b>5</b>                  | <b>6</b>                    |
|  | <b>Cartage of Materials for flats, community Center, Livelihood Center, Digestor/Septic tank, Parks, from Source/Rail Head/Road Head to site of work</b>   |             |                 |                           |                             |
|  | Stone Metal  | Cum         | 1266.928        | 237.49                    | 300882.68                   |
|  | Cement   | MT          | 4914.86         | 68.66                     | 337454.56                   |
|  | Steel  | MT          | 558.650         | 68.66                     | 38356.91                    |
|  | Coarse Sand  | Cum         | 9171.46         | 202.39                    | 1856212.01                  |
|  | Stone Chips  | Cum         | 5708.70         | 217.94                    | 1244154.95                  |
|  | Fine sand  | Cum         | 5202.15         | 109.85                    | 571455.64                   |
|  | Bricks   | %o          | 5410.222        | 400.00                    | 2164088.90                  |
|  | <b>Total Cartage of Building Materials (A)</b>   |             |                 |                           | <b>6512605.66</b>           |
|  |  |             |                 |                           |                             |
|  | <b>Dwelling Units</b>  |             |                 |                           |                             |
|  | <b>Cost of G+3 Cluster</b>   |             |                 |                           |                             |
|  | Earth work in Execavation in trenches for foundation trenches in ordinary soil (vide classification of soil item-A) and disposal of excavated earth as obtained to a distance upto 50M.including all lifts, levelling,ramming the foundation trenches, removing roots of trees,shurbs all complete as per approved design,building specification and direction of E/I. (5.1.1) | cum         | 212.04          | 43.61                     | 9247.06                     |
|  | Providing PCC M-75 with nomonal mix of 1:4:8 in foundation with approved quality of stone metal grade-III (50 mm to 25 mm ) , size clean coarse sand of F.M. 2.5 to 3 including screening,shuttering,mixing cement concrete in mixer and placing in position all complete as per building specification and direction of Engineer-incharge.(5.3.4)                             | cum         | 24.07           | 2212.42                   | 53252.95                    |



| <b>"CONSTRUCTION OF DWELLING UNITS &amp; DEVELOPMENT OF INFRASTRUCTURE Madhukom<br/>under Ranchi BSUP Programme"<br/>(Madhukam Slum)</b> |   |             |                 |                               |                                 |
|--|---|-------------|-----------------|-------------------------------|---------------------------------|
| <b>BILL OF QUANTITIES</b>  |   |             |                 |                               |                                 |
| <b>Item<br/>No.</b>  | <b>Description</b>  | <b>Unit</b> | <b>Quantity</b> | <b>Estimated<br/>Rate Rs.</b> | <b>Estimated<br/>Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>  | <b>3</b>    | <b>4</b>        | <b>5</b>                      | <b>6</b>                        |
|  | Providing designation 75A brick work in CM (1:4) in foundation and plinth with approved quality of clean coarse sand of FM 2 to 2.5 including providing 10mm thick mortar joints, cost of screening materials, raking out joints to 15mm depth, curing, taxes and royalty all complete as per building specification and direction of E/I (5.2.2) | cum         | 85.19           | 2357.73                       | 200855.02                       |
|  | Providing designation 75A brick work in CM (1:4) in superstructure with approved quality of clean coarse sand of FM 2 to 2.5 including providing 10mm thick mortar joints, cost of screening materials, raking out joints to 15mm depth, curing, taxes and royalty all complete as per building specification and direction of E/I (5.2.10)       | cum         | 236.39          | 2402.01                       | 567811.14                       |
|  | Half Brick Masonary with FPS Bricks of Class designation 75in super structure above plinth level upto floor V level Cement mortar 1:3 (1 cement: 3 Coarse sand) DSR 2007 Item no. 6.13.1  | Sqm         | 61.47           | 441.14                        | 27116.88                        |
|  | Extra for providing and placing in position 2 Nos. 6mm dia MS bars at every bthird course of half brick masonry (with FPS bricks).DSR 2007 item 6.15  | Sqm         | 61.47           | 65.49                         | 4025.67                         |
|  |   |             |                 |                               |                                 |
|  | Providing RCC M 200 with nominal mix of (1:1.5:3) in lintel with approved quality of stone chips 20 mm to 6mm size graded and clean coarse sand of F.M 2.5 to 3 including screening, centering shuttering,mixing cement concrete in mixer and placing in position ,vibrating, striking, curing and  |             |                 |                               |                                 |

| <b>"CONSTRUCTION OF DWELLING UNITS &amp; DEVELOPMENT OF INFRASTRUCTURE Madhukom<br/>under Ranchi BSUP Programme"<br/>(Madhukam Slum)</b> |  |             |                 |                               |                                 |
|--|--|-------------|-----------------|-------------------------------|---------------------------------|
| <b>BILL OF QUANTITIES</b>  |  |             |                 |                               |                                 |
| <b>Item<br/>No.</b>  | <b>Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Estimated<br/>Rate Rs.</b> | <b>Estimated<br/>Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>   | <b>3</b>    | <b>4</b>        | <b>5</b>                      | <b>6</b>                        |
|  | also including supply of all materials labours and tools and plants etc but excluding the cost of reinforcement, taxes and royalty all complete, as per building specification and direction of E/I. . (5.3.8.1)<br>Extra for R.C.C. or P.C.C. work for each consecutive floor above first floor complete as per direction of E/I. (5.3.29)  |             |                 |                               |                                 |
|  | GF & FF  | cum         | 3.40            | 4903.99                       | 16677.49                        |
|  | SF   | cum         | 1.70            | 4962.14                       | 8437.62                         |
|  | TF   | cum         | 1.70            | 5020.29                       | 8536.50                         |
|  | Providing RCC M 200 with nominal mix of (1:1.5:3) in column with approved quality of stone chips 20 mm to 6mm size graded and clean coarse sand of F.M 2.5 to 3 including screening, centering shuttering, mixing cement concrete in mixer and placing in position ,vibrating, striking, curing and also including supply of all materials labours and tools and plants etc but excluding the cost of reinforcement, taxes and royalty all complete, as per building specification and direction of E/I. . (5.3.14)<br>Extra for R.C.C. or P.C.C. work for each consecutive floor above first floor complete as per direction of E/I. (5.3.29) |             |                 |                               |                                 |
|  | GF & FF  | cum         | 31.90           | 4528.33                       | 144453.73                       |
|  | SF   | cum         | 4.14            | 4586.48                       | 18988.03                        |
|  | TF   | cum         | 4.14            | 4644.63                       | 19228.77                        |
|  | Providing RCC M 200 with nominal mix of (1:1.5:3) in roof slab with approved quality of stone chips 20 mm to 6mm size graded and clean coarse sand of F.M 2.5 to 3 including screening, centering shuttering, mixing cement concrete in mixer and placing in   |             |                 |                               |                                 |

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|--|---|-------------|-----------------|---------------------------|-----------------------------|
| <b>BILL OF QUANTITIES</b>  |   |             |                 |                           |                             |
| <b>Item No.</b>  | <b>Description</b>  | <b>Unit</b> | <b>Quantity</b> | <b>Estimated Rate Rs.</b> | <b>Estimated Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>  | <b>3</b>    | <b>4</b>        | <b>5</b>                  | <b>6</b>                    |
|  | position ,vibrating, striking, curing and also including supply of all materials labours and tools and plants etc but excluding the cost of reniforcement, taxes and royalty all complete, as per building specification and direction of E/I.(5.3.9.1)<br>Extra for R.C.C. or P.C.C. work for each consecutive floor above first floor complete as per direction of E/I. (5.3.29)  |             |                 |                           |                             |
|  | GF & FF   | cum         | 33.48           | 4959.47                   | 166043.06                   |
|  | SF  | cum         | 16.74           | 5017.62                   | 83994.96                    |
|  | TF  | cum         | 16.74           | 5075.77                   | 84968.39                    |
|  | Providing RCC M 200 with nominal mix of (1:1.5:3) in beam of all types with approved quality of stone chips 20 mm to 6mm size graded and clean coarse sand of F.M 2.5 to 3 including screening, centering shuttering,mixing cement concrete in mixer and placing in position ,vibrating, striking, curing and also including supply of all materials labours and tools and plants etc but excluding the cost of reniforcement, taxes and royalty all complete, as per building specification and direction of E/I.(5.3.11)<br>Extra for R.C.C. or P.C.C. work for each consecutive floor above first floor complete as per direction of E/I. (5.3.29) |             |                 |                           |                             |
|  | GF & FF   | cum         | 16.74           | 5338.87                   | 89372.68                    |
|  | SF  | cum         | 8.37            | 5397.02                   | 45149.72                    |
|  | TF  | cum         | 8.37            | 5455.17                   | 45659.77                    |
|  | Providing Tor steel reniforcement of 10mm,12mm & 16mm dia bars as per approved design and drawing excluding carriage of Rods (straight or in coil) to work site cutting,bending,and binding with  | mt          | 12.18           | 42523.58                  | 517937.20                   |

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|--|--|-------------|-----------------|-------------------------------|---------------------------------|
| <b>BILL OF QUANTITIES</b>  |  |             |                 |                               |                                 |
| <b>Item<br/>No.</b>  | <b>Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Estimated<br/>Rate Rs.</b> | <b>Estimated<br/>Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>   | <b>3</b>    | <b>4</b>        | <b>5</b>                      | <b>6</b>                        |
|  | annealed wire with cost of wire removal of rust,placing the rods in position all complete as per building specification and direction of E/I.<br>(a) 10mm to 12 mm (TMT bar Fe 500)<br>(5.5.5)   |             |                 |                               |                                 |
|  | 12mm cement plaster in single coat on fair side of single or half brick wall for interior plastering upt floor two level including internal rounded angles chamfers. And/or rounded angles not exceeding 80mm. In grit and finished even and smooth. No extra for mixing any additive. 1 cement : 6 fine sand<br>(5.7.3) | Sqm         | 1158.00         | 60.88                         | 70499.04                        |
|  | Providing 6 mm thick cement plaster (1:4) in ceilling with clean coarse sand of F.M 1.5 includin screening, curing with all leads and lifts of water, scaffolding taxes and royalty all complete as per building specification and direction of E/I.<br>1 cement : 4 fine sand<br>(5.7.6)                                | Sqm         | 342.72          | 60.57                         | 20758.55                        |
|  | 15mm cement plaster in single coat on Rough side of single or half brick wall for interior platering upt floor two level including internal rounded angles chamfers. And/or rounded angles not exceeding 80mm. In grit and finished even and smooth.<br>1 cement : 6 fine sand<br>(Sl. No. DSR 13.2)                     | Sqm         | 905.43          | 107.61                        | 97433.32                        |
|  | Providing 12mm cement plaster (1:3) with clean coarse sand of F.M 1.5 with floating coat of neat cement in skirting including rounding of junction with floor,curing, taxes and royalty all complete asper building specification  | Sqm         | 77.04           | 102.10                        | 7865.78                         |

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|--|---|-------------|-----------------|---------------------------|-----------------------------|
| <b>BILL OF QUANTITIES</b>  |   |             |                 |                           |                             |
| <b>Item No.</b>  | <b>Description</b>  | <b>Unit</b> | <b>Quantity</b> | <b>Estimated Rate Rs.</b> | <b>Estimated Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>  | <b>3</b>    | <b>4</b>        | <b>5</b>                  | <b>6</b>                    |
|  | and direction of Engineer in charge (5.6.10)  |             |                 |                           |                             |
|  | Providing and laying RCC 1:1.5:3 in M20 in plinth beam including screening , shuttering ,mixing cement concrete in mixer and placing in position,vibrating,striking,curing, taxes and royalty all complete as per building specification and direction of E/I (5.3.6.1)   | cum         | 7.70            | 4340.60                   | 33422.62                    |
|  | Providing 25mm. thick first class patent stone flooring (Cemnt concrete flooring 1:2:4 ) with stone chips in two layers,bottom layer 19mm,thick (1;2;4) with 12mm to 6mm. size graded stone chips and top layer 6mm. thick(1:2) with 6mm down stone chips, in panels including cost of curing, finishing the surface smooth by rubbing with carorandum stone, taxes and royalty with all complete as per building specification and direction of E/I. (5.6.7) | Sqm         | 342.72          | 142.69                    | 48902.72                    |
|  | Mild Steel or iron work of small size and sections such as holding down bolts. Hold fast. Tie rods. Grating etc. (whtn not included in and overall rates) wrought to required Shape as necessary for bending etc including supply of steel and its wastage including cost of bolts. nuts if required for and welding, grinding and making holes as required for completion of work<br>Fabrication of holes, Door, Chaukhats Nosing (5.5.7)                    | mt          | 2.81            | 41070.63                  | 115408.47                   |

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|--|---|-------------|-----------------|---------------------------|-----------------------------|
| <b>BILL OF QUANTITIES</b>  |   |             |                 |                           |                             |
| <b>Item No.</b>  | <b>Description</b>  | <b>Unit</b> | <b>Quantity</b> | <b>Estimated Rate Rs.</b> | <b>Estimated Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>  | <b>3</b>    | <b>4</b>        | <b>5</b>                  | <b>6</b>                    |
|  | Supply ,fitting and fixing 30mm thick solid core type non-decorative single leaf flush shutters with both sides decorative veneered with black board core bended with high quality phenol formal dehydres synthetic resin of standard make with Aluminium fittings such as hinges, tower bolts,handle,cleats and sand blocks and taxes all complete as per building specification and direction of E/I.<br>(5.4.40) | Sqm         | 166.32          | 867.81                    | 144334.16                   |
|  | Supply ,fitting and fixing 30mm thick solid core type non-decorative double leaf flush shutters with both sides decorative veneered with black board core bended with high quality phenol formal dehydres synthetic resin of standard make with Aluminium fittings such as hinges, tower bolts,handle,cleats and sand blocks and taxes all complete as per building specification and direction of E/I.<br>(5.4.41) | Sqm         | 76.80           | 927.98                    | 71268.86                    |
|  | Providing coarse clean Sand in filling in plinth under floors including watering, ramming in layers not exceeding 150mm thic with all leads and lifts including cost of all materials, labour, royalty and taxes including all complete as per building specification and direction of E/I (5.1.10)   | cum         | 161.08          | 115.76                    | 18646.44                    |
|  | White washing three coats over new surface with approved quality of lime including cost of cleaning surface throughly and removing the scales of smoke and mosh marks with jhama rubbing,scaffolding,washing, of floors and taxes all complete as per building  | Sqm         | 1500.72         | 5.52                      | 8283.97                     |

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|--|---|-------------|-----------------|-------------------------------|---------------------------------|
| <b>BILL OF QUANTITIES</b>  |   |             |                 |                               |                                 |
| <b>Item<br/>No.</b>  | <b>Description</b>  | <b>Unit</b> | <b>Quantity</b> | <b>Estimated<br/>Rate Rs.</b> | <b>Estimated<br/>Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>  | <b>3</b>    | <b>4</b>        | <b>5</b>                      | <b>6</b>                        |
|  | specification and direction of E/I.(5.8.3)  |             |                 |                               |                                 |
|  | Providing tow coats of painting with ready mixed paint over a coat of primer of approved shade and make over new wooden surface including preparing the surface after cleaning,removing dirt,smokes, grease and sand papering, including cost of scaffolding and taxes all complete as per building specification and direction of E/I (5.8.29) | Sqm         | 583.49          | 60.06                         | 35044.29                        |
|  | Providing two coat of snowcem of approved shade and make over a coat of cement primer on new surface including preparing the plastered surface smooth with sand paper, curing and taxes all complete as per specifications and direction of Engineer in Charge. (5.8.24)  | Sqm         | 905.43          | 40.94                         | 37068.10                        |
|  | P/Fixing of 16mm TMT bar for fan hook 5.5.13  | Each        | 32.00           | 72.27                         | 2312.64                         |
|  | Provide glass strip (30mmx 40mm) in flooring 5.6.13   | Sq. m       | 1140.00         | 16.33                         | 18616.20                        |

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|--|---|-------------|-----------------|---------------------------|-----------------------------|
| <b>BILL OF QUANTITIES</b>  |   |             |                 |                           |                             |
| <b>Item No.</b>  | <b>Description</b>  | <b>Unit</b> | <b>Quantity</b> | <b>Estimated Rate Rs.</b> | <b>Estimated Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>  | <b>3</b>    | <b>4</b>        | <b>5</b>                  | <b>6</b>                    |
|  | Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying: a) after surface preparation, first layer of slurry of cement@0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm, b) laying second layer of fiber glass cloth when the first layer is still green. Overlaps of joints of fiber cloth should not be less than 10cm. c) third layer of 1.5mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and coarse sand 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30cm on parapet wall and tucked into groove in parapet all around. d) fourth and final layer of brick tilling with cement ,ortar (which will be paid seperately. For the purpose of measurement the entire treated surface will be measured. (DSR 2007, Item no. 22.6) |             | 147.00          | 325.38                    | 47830.86                    |
|  | <b>Water Supply &amp; Sanitation</b>  |             |                 |                           |                             |
|  | S/ Fixing of 100mmdia PVC Pipe (G.F&F.F)  | R/m         | 216.00          | 223.86                    | 48353.76                    |
|  | S/Fixing of 75mmdia PVC Pipe (G.F&F.F)  | R/m         | 148.00          | 130.15                    | 19262.20                    |
|  | P/ Fixing of Plain bend,socket etc 100mm dia (dsr17.38.1.1)   | Nos         | 64.00           | 349.35                    | 22358.40                    |
|  | P/Fixing Kitchen sink (dsr 17.26.1)   | Each        | 16.00           | 1978.28                   | 31652.48                    |
|  | P/ Fixing of Plain bend,socket etc 75mm dia (dsr 17.38.2.1)   | Nos         | 64.00           | 287.70                    | 18412.80                    |



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|--|---|-------------|-----------------|-------------------------------|---------------------------------|
| <b>BILL OF QUANTITIES</b>  |   |             |                 |                               |                                 |
| <b>Item<br/>No.</b>  | <b>Description</b>  | <b>Unit</b> | <b>Quantity</b> | <b>Estimated<br/>Rate Rs.</b> | <b>Estimated<br/>Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>  | <b>3</b>    | <b>4</b>        | <b>5</b>                      | <b>6</b>                        |
|  | Supplying,fitting and fixing vitreous white glazed earthen ware I.W.C of parry Hindustan or any other I.S.S.approved make with 100mm H.C.I. 'p' trap 15 litres C.I. pull and let go flushing cistern of names or other I.S.S. equivalent make, complete with all fittings, C.I. or C.C.brackets 32mm alkathene/P.V.C telescopic flush,pipe about 2M long with one brass coupling and clamps G.I chain and pull including supplying and fixing a pair of vitreous white glazed earthenware footrest to be fixed in floor 15mm P.V.C connection pipe 450mm. long and the exposed pipe and cistern with two coats of approved paint over a coat of red oxide primer etc. all complete as per specification and direction of E/I.(12.2.1) |             |                 |                               | 0.00                            |
|  | 580 mm long   |             |                 |                               | 0.00                            |
|  | With 12.5 litre low level P.V.C cistern   |             | 16.00           | 2779.52                       | 44472.32                        |
|  | P/Fixing of Brass Bib Cock 15mm   | Nos         | 64.00           | 262.63                        | 16808.32                        |
|  | P/Fixing of G.I.Pipe.B-class (dsr 18.10)  |             |                 |                               | 0.00                            |
|  | 15mm dia  | R/m         | 48.00           | 145.01                        | 6960.48                         |
|  | <b>Electrification</b>  |             |                 |                               |                                 |
|  | Point wiring in PVC conduit,with piano type switch:wiring for light point/fan point/exhaust fan point/call bell point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface/recessed PVC conduit with piano type switch,phonemic laminated sheet,suitable size M.S.box and earthing the point with 1.5 sq mm FR PVC insulated copper  |             |                 |                               | 0.00                            |
|  | Group A dsr 1.8   | Point       | 160.00          | 361.68                        | 57868.80                        |

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|--|--|-------------|-----------------|-------------------------------|---------------------------------|
| <b>BILL OF QUANTITIES</b>  |  |             |                 |                               |                                 |
| <b>Item<br/>No.</b>  | <b>Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Estimated<br/>Rate Rs.</b> | <b>Estimated<br/>Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>   | <b>3</b>    | <b>4</b>        | <b>5</b>                      | <b>6</b>                        |
|  | S/F piano type switch/socket:Supplying and fixing following piano type switch socket on the existing switch box/cover including connections etc as required.   |             |                 |                               | 0.00                            |
|  | 5/6 amps switch dsr 1.23.1   | Each        | 48.00           | 23.29                         | 1117.92                         |
|  | 3 pin 5/6 amps switch outlet dsr 1.23.4  | Each        | 48.00           | 28.77                         | 1380.96                         |
|  | Twin Control point wiring in PVC conduit with piano type switch:Wiring for twin control light point with 1.5 sq mm FR PVC insulated copper conductor single core cable in surface/recessed PVC conduit with 2 way piano type switch,phonemic laminated sheet,suitable size M.S.box and earthing the point with 1.5 sq mm FR PVC insulated copper conductor single core cable etc.as required dsr 1.9 | Point       | 8.00            | 545.26                        | 4362.08                         |
|  | Power plug wiring in PVC conduit (2x4 sq.mm): Wiring for light /power plug with 2x4 sq mm FR PVC insulated copper conductor single core cable in surface/recessed PVC conduit with 1 No 4 sq mm FR PVC insulated copper conductor single core cable etc.as required for loop ear things as required dsr1.12  | Mtr         | 128.00          | 132.89                        | 17009.92                        |
|  | Circuit/sub-main wiring in PVC Conduit:Wiring for circuit/sub main wiring along withearth wire with the following sizes of PVC insulated,copper conductor,single core cable in in surface/recessed PVC conduit as required   |             |                 |                               | 0.00                            |
|  | 2x 2.5 sq mm + 1x 2.5 sq mm earth wise dsr 1.14.2  | Mtr         | 240.00          | 110.97                        | 26632.80                        |
|  | 2x 6 sq mm + 1x 6 sq mm earth wise 1.14.4  | Mtr         | 240.00          | 173.99                        | 41757.60                        |

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|--|---|-------------|-----------------|---------------------------|-----------------------------|
| <b>BILL OF QUANTITIES</b>  |   |             |                 |                           |                             |
| <b>Item No.</b>  | <b>Description</b>  | <b>Unit</b> | <b>Quantity</b> | <b>Estimated Rate Rs.</b> | <b>Estimated Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>  | <b>3</b>    | <b>4</b>        | <b>5</b>                  | <b>6</b>                    |
|  | S/F DP MCB isolator: Supplying and fixing following rating double pole, 240 volts, isolator in the existing MCB DB complete with connection, testing and commissioning etc. as required. ( make Havell's / HPL/Standard)  |             |                 |                           | 0.00                        |
|  | 40 amps dsr 2.54  | Each        | 32.00           | 227.42                    | 7277.44                     |
|  | S/F 'B' series SP MCB : Supplying and fixing 5 amps to 32 amps rating 240 volts, B series, miniature circuit breaker suitable for lighting and other loads of following pole in the existing MCB DB complete with connection, testing and commissioning etc as required. ( make Havell's / HPL/Standard)  |             |                 |                           | 0.00                        |
|  | Single Pole dsr 2,5.1   | Each        | 64.00           | 117.82                    | 7540.48                     |
|  | S/F SP MCB DB consumer unit: Supplying and fixing following way, single pole and natural, sheet steel, MCB distribution board consumer unit, 240 volts, on surface/recess, complete with tinned copper bushbar, neutral bushbar, earth bar din bar, hinged front acrylic cover for the MCB knob, detachable gland plate, interconnections, phosphatized and powder painted including earthing as required (but without MCB/RCCB/isolator) ( make Havell's / HPL/Standard) |             |                 |                           | 0.00                        |
|  | 2+4 way dsr 2.32,1  | Each        | 16.00           | 765.83                    | 12253.28                    |
|  | S/F TPN RCCB: Supplying and fixing following rating, four pole (three phase and neutral) 415 volts, residual current circuit breaker (RCCB) having a sensitivity current up to 300 milliamperes in the existing MCB DB complete with connection, testing and commissioning etc. as required ( make  |             |                 |                           | 0.00                        |

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|--|---|-------------|-----------------|-------------------------------|---------------------------------|
| <b>BILL OF QUANTITIES</b>  |   |             |                 |                               |                                 |
| <b>Item<br/>No.</b>  | <b>Description</b>  | <b>Unit</b> | <b>Quantity</b> | <b>Estimated<br/>Rate Rs.</b> | <b>Estimated<br/>Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>  | <b>3</b>    | <b>4</b>        | <b>5</b>                      | <b>6</b>                        |
|  | Havell's / HPL/Standard)  |             |                 |                               |                                 |
|  | 63 amp 2.57.3   | Each        | 1.00            | 1953.62                       | 1953.62                         |
|  | S/F TP MCB DB: Supplying and fixing following way three pole and natural, sheet steel, MCB distribution board, 415 volts, on surface/recess, complete with tinned copper bushbar, neutral bushbar, earth bar din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing as required (but without MCB/RCCB/isolator) (make Havell's / HPL/Standard) |             |                 |                               | 0.00                            |
|  | 8 way (4+14), Single door, Horizontal type 2.33.3   | Each        | 1.00            | 1901.56                       | 1901.56                         |
|  | S/F power plug point piano type accessories: Supply and fixing metal box of 180mm x 100 mm x 60 mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 5/6 & 15/16 amps socket outlet and 15/16 amps piano type switch, connection, painting etc. as required dsr 1.30                             | Each        | 16.00           | 220.57                        | 3529.12                         |
|  | Supplying and fixing metal box of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc. as required  |             |                 |                               | 0.00                            |
|  | 200MM X 300 MM X 100 MM deep dsr 1.22.14  | Each        | 16.00           | 234.27                        | 3748.32                         |

| <b>"CONSTRUCTION OF DWELLING UNITS &amp; DEVELOPMENT OF INFRASTRUCTURE Madhukom<br/>under Ranchi BSUP Programme"<br/>(Madhukam Slum)</b> |   |             |                 |                               |                                 |
|--|---|-------------|-----------------|-------------------------------|---------------------------------|
| <b>BILL OF QUANTITIES</b>  |   |             |                 |                               |                                 |
| <b>Item<br/>No.</b>  | <b>Description</b>  | <b>Unit</b> | <b>Quantity</b> | <b>Estimated<br/>Rate Rs.</b> | <b>Estimated<br/>Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>  | <b>3</b>    | <b>4</b>        | <b>5</b>                      | <b>6</b>                        |
|  | G.I.earth pipe electrode: Earthing with G.I.earth pipe 4.5 mm longx 40 mm dia including accessories,and providing masonry encloser with cover plate having locking arrangement and watering pipe etc.( but without charcoal or cock and salt completeas required) dsr 3.1 | Set         | 2.00            | 2049.52                       | 4099.04                         |
|  | Salt/Charcoal for pipe earth electrode: Extra for using salt and charcoal for pipe earth electrode as required dsr 3.3  | Set         | 2.00            | 650.75                        | 1301.50                         |
|  | S/L 25mm X 6mm G.I.earth strip in ground: Supplying and laying 25mmx 6mm G.I.strip at 0.50 metre below ground as strip earth electrode,including soldering etc as required dsr 3.12   | Mtr         | 20.00           | 82.20                         | 1644.00                         |
|  | S/F brass holder: Supply and fixing brass batten/angle holder including connection etc,required( of make Anchor/Miner/Arkaylite)dsr 1.34  | Each        | 100.00          | 45.21                         | 4521.00                         |
|  | P/F M.V. danger notice plate: Providing and fixing M.V.Danger notice plate of 200 mm x 150mm made of mild steel at least 2 mm thick and vitreous enamelled white on both side and with inscription in signal red colour on front side as required. Dsr 2.71               | Each        | 1.00            | 93.16                         | 93.16                           |
|  | S/F B series SP MCB blanking plate : Supply and fixing single pole blanking plate in the existing MCB DB complete with connection,testing and commissioing etc as required.( make Havell's / HPL/Standard) dsr 2.53   | Each        | 24.00           | 2.74                          | 65.76                           |
|  | <b>Cost of 1nos. G+3 Clusters</b>   |             |                 |                               | <b>3297512.92</b>               |
|  | <b>Cost of 28 Full &amp; 1 Half G+3 Clusters (B)</b>  | <b>nos</b>  | <b>28.5</b>     | <b>3297512.92</b>             | <b>93979118.22</b>              |

| <b>"CONSTRUCTION OF DWELLING UNITS &amp; DEVELOPMENT OF INFRASTRUCTURE Madhukom<br/>under Ranchi BSUP Programme"<br/>(Madhukam Slum)</b> |   |             |                 |                           |                             |
|--|---|-------------|-----------------|---------------------------|-----------------------------|
| <b>BILL OF QUANTITIES</b>  |   |             |                 |                           |                             |
| <b>Item No.</b>  | <b>Description</b>  | <b>Unit</b> | <b>Quantity</b> | <b>Estimated Rate Rs.</b> | <b>Estimated Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>  | <b>3</b>    | <b>4</b>        | <b>5</b>                  | <b>6</b>                    |
|  | <b>Stair Cases &amp; Corridors in G+3 Clusters</b>  |             |                 |                           |                             |
|  | Earth work in Excavation in trenches for foundation trenches in ordinary soil (vide classification of soil item-A) and disposal of excavated earth as obtained to a distance upto 50M.including all lifts, levelling,ramming the foundation trenches, removing roots of trees,shurbs all complete as per approved design,building specification and direction of E/I. (5.1.1) | cum         | 76.44           | 43.61                     | 3333.55                     |
|  | Providing PCC M-75 with nomonal mix of 1:4:8 in foundation with approved quality of stone metal grade-III (50 mm to 25 mm ) , size clean coarse sand of F.M. 2.5 to 3 including screening,shuttering,mixing cement concrete in mixer and placing in position all complete as per building specification and direction of Engineer-incharge.(5.3.4)                            | cum         | 4.35            | 2212.42                   | 9624.03                     |
|  | Providing designation 75A brick work in CM (1:4) in foundation and plinth with approved quality of clean coarse sand of FM 2 to 2.5 including providing 10mm thick mortar joints, cost of screening materials, raking out joints to 15mm depth, curing, taxes and royalty all complete as per building specification and direction of E/I (5.2.2)                             | cum         | 6.50            | 2357.73                   | 15325.25                    |
|  | Providing designation 75A brick work in CM (1:4) in superstructure with approved quality of clean coarse sand of FM 2 to 2.5 including providing 10mm thick mortar joints, cost of screening materials, raking out joints   | cum         | 72.52           | 2402.01                   | 174191.36                   |

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|--|--|-------------|-----------------|-------------------------------|---------------------------------|
| <b>BILL OF QUANTITIES</b>  |  |             |                 |                               |                                 |
| <b>Item<br/>No.</b>  | <b>Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Estimated<br/>Rate Rs.</b> | <b>Estimated<br/>Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>   | <b>3</b>    | <b>4</b>        | <b>5</b>                      | <b>6</b>                        |
|  | to 15mm depth, curing, taxes and royalty all complete as per building specification and direction of E/I (5.2.10)  |             |                 |                               |                                 |
|  | Providing RCC M 200 with nominal mix of (1:1.5:3) in lintel with approved quality of stone chips 20 mm to 6mm size graded and clean coarse sand of F.M 2.5 to 3 including screening, centering shuttering,mixing cement concrete in mixer and placing in position ,vibrating, striking, curing and also including supply of all materials labours and tools and plants etc but excluding the cost of reinforcement, taxes and royalty all complete, as per building specification and direction of E/I. . (5.3.8.1)<br>Extra for R.C.C. or P.C.C. work for each consecutive floor above first floor complete as per direction of E/I. (5.3.29) |             |                 |                               | 0.00                            |
|  | TF   | cum         | 0.04            | 5078.44                       | 192.73                          |
|  | Providing RCC M 200 with nominal mix of (1:1.5:3) in column with approved quality of stone chips 20 mm to 6mm size graded and clean coarse sand of F.M 2.5 to 3 including screening, centering shuttering,mixing cement concrete in mixer and placing in position ,vibrating, striking, curing and also including supply of all materials labours and tools and plants etc but excluding the cost of reinforcement, taxes and royalty all complete, as per building specification and direction of E/I. . (5.3.14)<br>Extra for R.C.C. or P.C.C. work for each consecutive floor above first floor complete as per direction of E/I. (5.3.29)  |             |                 |                               | 0.00                            |

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|--|---|-------------|-----------------|---------------------------|-----------------------------|
| <b>BILL OF QUANTITIES</b>  |   |             |                 |                           |                             |
| <b>Item No.</b>  | <b>Description</b>  | <b>Unit</b> | <b>Quantity</b> | <b>Estimated Rate Rs.</b> | <b>Estimated Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>  | <b>3</b>    | <b>4</b>        | <b>5</b>                  | <b>6</b>                    |
|  | GF & FF   | cum         | 13.16           | 4528.33                   | 59592.82                    |
|  | SF  | cum         | 1.66            | 4586.48                   | 7595.21                     |
|  | TF  | cum         | 1.66            | 4644.63                   | 7691.51                     |
|  | Terrace fourth floor  | cum         | 1.66            | 4702.78                   | 7806.61                     |
|  | Providing RCC M 200 with nominal mix of (1:1.5:3) in roof slab with approved quality of stone chips 20 mm to 6mm size graded and clean coarse sand of F.M 2.5 to 3 including screening, centering shuttering,mixing cement concrete in mixer and placing in position ,vibrating, striking, curing and also including supply of all materials labours and tools and plants etc but excluding the cost of reinforcement, taxes and royalty all complete, as per building specification and direction of E/I.(5.3.9.1)<br>Extra for R.C.C. or P.C.C. work for each consecutive floor above first floor complete as per direction of E/I. (5.3.29)        |             |                 |                           | 0.00                        |
|  | THIRD FLOOR (MUMTY SLAB)  | 0           | 1.15            | 5133.92                   | 5904.01                     |
|  | Providing RCC M 200 with nominal mix of (1:1.5:3) in beam of all types with approved quality of stone chips 20 mm to 6mm size graded and clean coarse sand of F.M 2.5 to 3 including screening, centering shuttering,mixing cement concrete in mixer and placing in position ,vibrating, striking, curing and also including supply of all materials labours and tools and plants etc but excluding the cost of reinforcement, taxes and royalty all complete, as per building specification and direction of E/I.(5.3.11)<br>Extra for R.C.C. or P.C.C. work for each consecutive floor above first floor complete as per direction of E/I. (5.3.29) |             |                 |                           | 0.00                        |



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|--|--|-------------|-----------------|-------------------------------|---------------------------------|
| <b>BILL OF QUANTITIES</b>  |  |             |                 |                               |                                 |
| <b>Item<br/>No.</b>  | <b>Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Estimated<br/>Rate Rs.</b> | <b>Estimated<br/>Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>   | <b>3</b>    | <b>4</b>        | <b>5</b>                      | <b>6</b>                        |
|  | GF & FF  | cum         | 0.90            | 5338.87                       | 4804.98                         |
|  | SF   | cum         | 0.36            | 5397.02                       | 1942.93                         |
|  | TF   | cum         | 0.36            | 5455.17                       | 1963.86                         |
|  | Providing Tor steel reinforcement of 8mm,10mm,12mm & 16mm,20mm dia bars as per approved design and drawing excluding carriage of Rods (straight or in coil) to work site cutting,bending,and binding with annealed wire with cost of wire removal of rust,placing the rods in position all complete as per building specification and direction of E/I.(TMT bar Fe 500)<br>(5.5.5) | mt          | 2.67            | 42523.58                      | 113537.96                       |
|  | 12mm cement plaster in single coat on fair side of single or half brick wall for interior plastering upt floor two level including internal rounded angles chamfers. And/or rounded angles not exceeding 80mm. In grit and finished even and smooth. No extra for mixing any additive. 1 cement : 6 fine sand<br>(5.7.3)   | Sqm         | 555.13          | 60.88                         | 33796.44                        |
|  | 15mm cement plaster in single coat on Rough side of single or half brick wall for interior platering upt floor two level including internal rounded angles chamfers. And/or rounded angles not exceeding 80mm. In grit and finished even and smooth.<br>1 cement : 6 fine sand<br>(Sl. No. DSR 13.2)   | Sqm         | 65.41           | 107.61                        | 7038.93                         |
|  | Providing 6 mm thick cement plaster (1:4) in ceilling with clean coarse sand of F.M 1.5 includin screening, curing with all leads and lifts of water, scaffolding taxes and royalty all complete as per building specification   | Sqm         | 105.03          | 60.57                         | 6361.47                         |

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|--|--|-------------|-----------------|---------------------------|-----------------------------|
| <b>BILL OF QUANTITIES</b>  |  |             |                 |                           |                             |
| <b>Item No.</b>  | <b>Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Estimated Rate Rs.</b> | <b>Estimated Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>   | <b>3</b>    | <b>4</b>        | <b>5</b>                  | <b>6</b>                    |
|  | and direction of E/I.<br>1 cement : 4 fine sand<br>(5.7.6)   |             |                 |                           |                             |
|  | Providing RCC M 200 with nominal mix of (1:1.5:3) in stair case with approved quality of stone chips 20 mm to 6mm size graded and clean coarse sand of F.M 2.5 to 3 including screening, centering shuttering,mixing cement concrete in mixer and placing in position ,vibrating, striking, curing and also including supply of all materials labours and tools and plants etc but excluding the cost of reinforcement, taxes and royalty all complete, as per building specification and direction of E/I.(5.3.18.1)<br>Extra for R.C.C. or P.C.C. work for each consecutive floor above first floor complete as per direction of E/I. (5.3.29) |             |                 |                           | 0.00                        |
|  | GF + FF  | cum         | 5.87            | 7330.57                   | 43030.45                    |
|  | S.F  | cum         | 2.93            | 7388.72                   | 21648.95                    |
|  | T.F  | cum         | 4.28            | 7446.87                   | 31872.60                    |
|  | Providing coarse clean Sand in filling in plinth under floors including watering, ramming in layers not exceeding 150mm thic with all leads and lifts including cost of all materials, labour, royalty and taxes including all complete as per building specification and direction of E/I (5.1.10)  | cum         | 9.34            | 115.76                    | 1081.63                     |
|  | White washing three coats over new surface with approved quality of lime including cost of cleaning surface thoroughly and removing the scales of smoke and mosh marks with jhama rubbing,scaffolding,washing, of floors   | Sqm         | 660.16          | 5.52                      | 3644.08                     |

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|--|--|-------------|-----------------|---------------------------|-----------------------------|
| <b>BILL OF QUANTITIES</b>  |  |             |                 |                           |                             |
| <b>Item No.</b>  | <b>Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Estimated Rate Rs.</b> | <b>Estimated Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>   | <b>3</b>    | <b>4</b>        | <b>5</b>                  | <b>6</b>                    |
|  | and taxes all complete as per building specification and direction of E/I.(5.8.3)  |             |                 |                           |                             |
|  | Mild Steel or iron work of small size and sections such as holding down bolts. Hold fast. Tie rods. Grating etc. (whtn not included in and overall rates) wrought to required Shape as necessary for bending etc including supply of steel and its wastage including cost of bolts. nuts if required for and welding, grinding and making holes as required for completion of work<br>Fabrication of holes, Door, Chaukhats<br>Nosing<br>(5.5.7)                 | mt          | 0.02            | 41070.63                  | 821.41                      |
|  | Providing 25mm. thick first class patent stone flooring (Cemnt concrete flooring 1:2:4 ) with stone chips in two layers,bottom layer 19mm,thick (1;2;4) with 12mm to 6mm. size graded stone chips and top layer 6mm. thick(1:2) with 6mm down stone chips, in panels including cost of curing, finishing the surface smooth by rubbing with carorandum stone, taxes and royalty with all complete as per building specification and direction of E/I.<br>(5.6.7) | Sqm         | 65.67           | 142.69                    | 9370.45                     |
|  | Supply ,fitting and fixing 30mm thick solid core type non-decorative double leaf flush shutters with both sides decorative veneered with black board core bended with high quality phenol formal dehydres synthetic resin of standard make with Aluminium fittings   | Sqm         | 1.89            | 927.98                    | 1753.88                     |

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|--|---|-------------|-----------------|-------------------------------|---------------------------------|
| <b>BILL OF QUANTITIES</b>  |   |             |                 |                               |                                 |
| <b>Item<br/>No.</b>  | <b>Description</b>  | <b>Unit</b> | <b>Quantity</b> | <b>Estimated<br/>Rate Rs.</b> | <b>Estimated<br/>Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>  | <b>3</b>    | <b>4</b>        | <b>5</b>                      | <b>6</b>                        |
|  | such as hinges, tower bolts, handle, cleats and sand blocks and taxes all complete as per building specification and direction of E/I. (5.4.41)   |             |                 |                               |                                 |
|  | Providing and fixing hand rail of approved size by welding to steel GI pipe (dsr 10.26.3)   | Kg          | 300.00          | 93.16                         | 27948.00                        |
|  | Providing two coats of painting with ready mixed paint over a coat of primer of approved shade and make over new wooden surface including preparing the surface after cleaning, removing dirt, smokes, grease and sand papering, including cost of scaffolding and taxes all complete as per building specification and direction of E/I (5.8.29) | Sqm         | 5.04            | 60.06                         | 302.70                          |
|  | Providing two coats of snowcem of approved shade and make over a coat of cement primer on new surface including preparing the plastered surface smooth with sand paper, curing and taxes all complete as per specifications and direction of Engineer in Charge. (5.8.24)   | Sqm         | 65.41           | 40.94                         | 2677.95                         |
|  | ISI marked PVC pipe 110mm dia ISI Mark dsr 12.40.2  | Rm          | 15.45           | 223.86                        | 3458.64                         |

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|--|---|-------------|-----------------|-------------------------------|---------------------------------|
| <b>BILL OF QUANTITIES</b>  |   |             |                 |                               |                                 |
| <b>Item<br/>No.</b>  | <b>Description</b>  | <b>Unit</b> | <b>Quantity</b> | <b>Estimated<br/>Rate Rs.</b> | <b>Estimated<br/>Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>  | <b>3</b>    | <b>4</b>        | <b>5</b>                      | <b>6</b>                        |
|  | Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying: a) after surface preparation, first layer of slurry of cement@0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm, b) laying second layer of fiber glass cloth when the first layer is still green. Overlaps of joints of fiber cloth should not be less than 10cm. c) third layer of 1.5mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and coarse sand 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30cm on parapet wall and tucked into groove in parapet all around. d) fourth and final layer of brick tilling with cement ,ortar (which will be paid seperately. For the purpose of measurement the entire treated surface will be measured. (DSR 2007, Item no. 22.6) | Sqm         | 8.76            | 325.38                        | 2851.60                         |
|  | <b>Cost of one no. stair case &amp; Corridor in G+3 Cluster</b>   |             |                 |                               | 611165.98                       |
|  | <b>Cost of 29 no. G+3 Stair cases &amp; Corridors (C)</b>   | <b>nos.</b> | <b>29</b>       | <b>611165.98</b>              | <b>17723813.37</b>              |
|  |   |             |                 |                               |                                 |
|  | <b>Community Center</b>   |             |                 |                               |                                 |
|  | Earth work in Execavation in trenches for foundation, pipes, cable etc. in ordinary soil in clay or sand) including lift upto 1.5 m. lead upto 50mm and dressing of sides and rammings of   | cum         | 487.97          | 43.61                         | 21280.36                        |

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|--|--|-------------|-----------------|-------------------------------|---------------------------------|
| <b>BILL OF QUANTITIES</b>  |  |             |                 |                               |                                 |
| <b>Item<br/>No.</b>  | <b>Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Estimated<br/>Rate Rs.</b> | <b>Estimated<br/>Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>   | <b>3</b>    | <b>4</b>        | <b>5</b>                      | <b>6</b>                        |
|  | bottom and disposal of surplus excavated earth directed by the Enginner i/e within a lead of 50m. (5.1.1)  |             |                 |                               |                                 |
|  | Providing and laying in cement concrete 1:4:8 (1 cement : 4 fine Sand : 8 graded brick aggregate 40mm. Nominal Size) and curing complete, including cost of formwork in foundation and floors. (5.3.4)   | cum         | 50.58           | 2212.42                       | 111906.29                       |
|  | Providing designation 75A brick work in 1:4 cement and fine sand of 1.25 fineness modulus mortar in foundation and plinth including supply of all metarials, labour and tools and plants etc. required for proper completion of the work (5.2.2)   | cum         | 207.80          | 2357.73                       | 489942.15                       |
|  | Providing designation 75A brick work in 1:4 cement and fine sand of 1.25 fineness modulus mortar in foundation and plinth including supply of all metarials, labour and tools and plants etc. required for proper completion of the work but in supper structure above plinth level upto floor two level (ipto two storeys) including necessary cutting and moulding of brrick work as required and also includinf hency combed brick in thickness of wall more than 12cms. (5.2.10) | cum         | 260.72          | 2402.01                       | 626252.05                       |
|  | Half Brick Masonary with FPS Bricks of Class designation 75in super structure above plinth level upto floor V level Cement mortar 1:3 (1 cement: 3 Coarse sand) DSR 2007 Item no. 6.13.1   | Sqm         | 312.00          | 441.14                        | 137635.68                       |
|  | Extra for providing and placing in position 2 Nos. 6mm dia MS bars at every bthird course of half brick  | Sqm         | 312.00          | 65.49                         | 20432.88                        |

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|--|--|-------------|-----------------|---------------------------|-----------------------------|
| <b>BILL OF QUANTITIES</b>  |  |             |                 |                           |                             |
| <b>Item No.</b>  | <b>Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Estimated Rate Rs.</b> | <b>Estimated Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>   | <b>3</b>    | <b>4</b>        | <b>5</b>                  | <b>6</b>                    |
|  | masonry (with FPS bricks).DSR 2007 item 6.15   |             |                 |                           |                             |
|  | Providing RCC M-20 in band at plinth level with approved quality of stone chips 20mm to 6 mm size graded and clean coarse sand of F.M.2.5 to3 including screening,shuttering,mixing cement concrete in mixer and placing in position,vibrating,curing(but excluding the cost of reinforcement,taxes and royalty all complete,as per building specification and direction of E/I ( 5.3.6.1)   | cum         | 14.90           | 4340.60                   | 64674.94                    |
|  |  |             |                 |                           | 0.00                        |
|  | RCC works with cement approved coarse sand and 2 cm (3/4") gauge approved stone ballast in the proportion 1:1.5:3 (1cement :4.5 aggregate) in lintels of doors and windows excluding supply of reinforcement and its bending the same with 24 B WG binding wire and necessary centering and shuttering etc. and also including supply of all materials labours and tools and plants etc required for proper completion of works strength of the concrete shall no be less than M -20 (5.3.8.1) | cum         | 4.77            | 4903.99                   | 23386.88                    |
|  | RCC works with cement approved coarse sand and 2 cm (3/4") gauge approved stone ballast in the proportion 1:1.5:3 (1cement : 4.5 aggregate) in Slab excluding supply of reinforcement and its bending the same with 24 B WG binding wire and necessary centering and shuttering etc. and also including supply of all materials labours and tools and plants etc required for proper completion of   |             |                 |                           | 0.00                        |

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|--|--|-------------|-----------------|---------------------------|-----------------------------|
| <b>BILL OF QUANTITIES</b>  |  |             |                 |                           |                             |
| <b>Item No.</b>  | <b>Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Estimated Rate Rs.</b> | <b>Estimated Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>   | <b>3</b>    | <b>4</b>        | <b>5</b>                  | <b>6</b>                    |
|  | works strength of the concrete shall not less than M -20 (5.3.9.1)<br>Extra for R.C.C. or P.C.C. work for each consecutive floor above first floor complete as per direction of E/I. (5.3.29)  |             |                 |                           |                             |
|  | GF & FF  | cum         | 52.91           | 4959.47                   | 262405.56                   |
|  | Mumty Slab   | cum         | 0.59            | 5017.62                   | 2962.40                     |
|  | RCC works with cement approved coarse sand and 2 cm (3/4") gauge approved stone ballast in the proportion 1:1.5:3 (1cement : 4.5 aggregate) in Columns excluding supply of reinforcement and its bending the same with 24 B WG binding wire and necessary centering and shuttering etc. and also including supply of all materials labours and tools and plants etc required for proper completion of works strength of the concrete shall not less than M - 20 (5.3.14) | cum         | 57.81           | 4528.33                   | 261804.58                   |
|  | Providing Tor steel reinforcement of 8mm,10mm,12mm & 16mm,20mm dia bars as per approved design and drawing excluding carriage of Rods (straight or in coil) to work site cutting,bending,and binding with annealed wire with cost of wire removal of rust,placi  | mt          | 11.56           | 42523.58                  | 491572.58                   |
|  | Providing and fixing fan hook of 16mm dia MS bar 1m long bent to required size and shape,placed in position and fixed in RCC slab/beam at the time of casting all complete as per building specification and direction of E/I (5.5.13)   | each        | 30.00           | 72.27                     | 2168.10                     |
|  | Extra for Providing & fixing 30 *4 mm glass strip in joints of flooring,complete job as per  | mt          | 1280.00         | 16.33                     | 20902.40                    |



| <b>"CONSTRUCTION OF DWELLING UNITS &amp; DEVELOPMENT OF INFRASTRUCTURE Madhukom<br/>under Ranchi BSUP Programme"<br/>(Madhukam Slum)</b> |   |             |                 |                               |                                 |
|--|---|-------------|-----------------|-------------------------------|---------------------------------|
| <b>BILL OF QUANTITIES</b>  |   |             |                 |                               |                                 |
| <b>Item<br/>No.</b>  | <b>Description</b>  | <b>Unit</b> | <b>Quantity</b> | <b>Estimated<br/>Rate Rs.</b> | <b>Estimated<br/>Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>  | <b>3</b>    | <b>4</b>        | <b>5</b>                      | <b>6</b>                        |
|  | specification & direction of E/I (5.6.13)   |             |                 |                               |                                 |
|  | Providing R.C.C.in M20 with nominal mix of (1:1.5:3) in Staircase with approved quality of stone chips 20mm to 6 mm size graded and clean coarse sand of F.M.2.5 to3 including screening,shuttering,mixing cement concrete in mixer and placing in position,vibrating,curing(but excluding the cost of reinforcement,taxes and royalty all complete,as per building specification and direction of E/I (5.3.18.1) G.F+F.F | cum         | 2.91            | 7330.57                       | 21331.96                        |
|  | 12mm cement plaster in single coat on fair side of single or half brick wall for interior plastering upt floor two level including internal rounded angles chamfers. And/or rounded angles not exceeding 80mm. In grit and finished even and smooth. No extra for mixing any additive. 1 cement : 6 fine sand (5.7.3)   | Sqm         | 1523.41         | 60.88                         | 92745.32                        |
|  | Providing 6mm thick cement plaster in1:4 in ceiling with clean coarse sand of F.M. 1.5 including screening,curing with all leads and lifts of water,scaffolding taxes and royalty all complete as per building specification and direction of E/I (5.7.6)ceiling plaster  | Sqm         | 372.78          | 60.57                         | 22579.19                        |
|  | Providing 12mm cement plaster (1:3) with clean coarse sand of FM 1.5 with floating coat of neat cement in skirting including rounding of junctions with floor, curing, taxes and royalty all complete as per building specifications and direction of Engineer in Charge. (5.6.10)  | Sqm         | 17.12           | 102.10                        | 1747.44                         |

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|--|--|-------------|-----------------|---------------------------|-----------------------------|
| <b>BILL OF QUANTITIES</b>  |  |             |                 |                           |                             |
| <b>Item No.</b>  | <b>Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Estimated Rate Rs.</b> | <b>Estimated Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>   | <b>3</b>    | <b>4</b>        | <b>5</b>                  | <b>6</b>                    |
|  | Sand filling in plinth under floors including watering, ramming, consolidating and dressing complete including lead upto 50m and lift upto 1.5m excluding cost of sand,(5.1.10)  | cum         | 69.21           | 115.76                    | 8012.26                     |
|  | White washing three coats over new surface with approved quality of lime including cost of cleaning surface thoroughly and removing scale of smoke and mosh marks jhama rubbing,scaffolding,washing of floors and taxes all complete as per specification and direction of E/I. (5.8.3)  | Sqm         | 1896.19         | 5.52                      | 10466.97                    |
|  | Mild Steel or iron work of small size and sections such as holding down bolts. Hold fast. Tie rods. Grating etc. (whtn not included in and overall rates) wrought to required Shape as necessary for bending etc including supply of steel and its wastage including cost of bolts. nuts if required for and welding, grinding and making holes as required for completion of work<br>Fabrication of holes, Door, Chaukhats Nosing (5.5.7) | MT          | 1.65            | 41070.63                  | 67766.54                    |
|  | 15 mm cement plaster on the rough side of single or half brick wall of mix 1:6 1 cement : 6 fine sand as per building specification and direction of E/I (DSR 13.2)  | Sqm         | 2828.44         | 107.61                    | 304368.43                   |
|  | P/F handrail of Approved size by welding etc to steel ladder railing,balcony railingand stair case railing including applying a priming coat of approved steel primer G.I.Pipe(DSR 10.26.3)  | Kg          | 150.00          | 93.16                     | 13974.00                    |

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|--|---|-------------|-----------------|-------------------------------|---------------------------------|
| <b>BILL OF QUANTITIES</b>  |   |             |                 |                               |                                 |
| <b>Item<br/>No.</b>  | <b>Description</b>  | <b>Unit</b> | <b>Quantity</b> | <b>Estimated<br/>Rate Rs.</b> | <b>Estimated<br/>Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>  | <b>3</b>    | <b>4</b>        | <b>5</b>                      | <b>6</b>                        |
|  | 25mm. Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of size 12.5mm and below by volume) laid over set and hardened surface of structural slab or base concrete finished with a floating coat of neat cement using cement slurry for bond at the rate of 2.75 Kg. of cement per Sq. M of Floor including fixing of Glass Strips) but excluding cost of Glass Strips. (5.6.7) | Sqm         | 383.95          | 142.69                        | 54785.83                        |
|  | Supply and fixing of 30 mm thick solid core type non decorative single leaf flush Doors commercial quality conforming to I.S 2202 part 1(1983) including Fixing of wooden eleats and stoppers and including fixing and adjustment of hinges bolts locks handles springs fitting with necessary screws as per specification and direction of E/I (5.4.40)  | Sqm         | 131.34          | 867.81                        | 113978.17                       |
|  | Providing two coats of painting with ready mix paint over priming coat of approved shade and make over new wooden surface including preparing of surface after cleaning the surface of all dirt, dust and other foreign matter sand papering and stopping including cost of all materials labour tolls and plants etc required for proper completion of the work (5.8.29)   | Sqm         | 262.68          | 60.06                         | 15776.56                        |
|  | Providing two coat of snowcem of approved shade and make over a coat of cement primer on new surface including preparing the plastered surface smooth with sand paper, curing and taxes all complete as per specifications and direction of Engineer in Charge. (5.8.24)  | Sqm         | 2828.44         | 40.94                         | 115796.33                       |

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|--|---|----------------------|-----------------|---------------------------|-----------------------------|
| <b>BILL OF QUANTITIES</b>  |   |                      |                 |                           |                             |
| <b>Item No.</b>  | <b>Description</b>  | <b>Unit</b>          | <b>Quantity</b> | <b>Estimated Rate Rs.</b> | <b>Estimated Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>  | <b>3</b>             | <b>4</b>        | <b>5</b>                  | <b>6</b>                    |
|  | Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS :13592 Type A including jointing with seal ring conforming to IS:5382 leaving 10mm gap for thermal expansion(i)Single socketed pipes,110 mm dia (DSR 12.40.2)   | DSR<br>12.40.2<br>RM | 52.20           | 223.86                    | 11685.49                    |
|  | Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying: a) after surface preparation, first layer of slurry of cement@0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm, b) laying second layer of fiber glass cloth when the first layer is still green. Overlaps of joints of fiber cloth should not be less than 10cm. c) third layer of 1.5mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and coarse sand 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30cm on parapet wall and tucked into groove in parapet all around. d) fourth and final layer of brick tilling with cement ,ortar (which will be paid seperately. For the purpose of measurement the entire treated surface will be measured. (DSR 2007, Item no. 22.6) | Sqm                  | 377.00          | 325.38                    | 122668.26                   |
|  | <b>Water Supply and Sanitation</b>  |                      |                 |                           | 0.00                        |
|  | S/ Fixing of 110mmdia PVC Pipe 6kg/sqcm. (G.F&F.F)  | R/m                  | 28.00           | 223.86                    | 6268.08                     |

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|--|--|-------------|-----------------|---------------------------|-----------------------------|
| <b>BILL OF QUANTITIES</b>  |  |             |                 |                           |                             |
| <b>Item No.</b>  | <b>Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Estimated Rate Rs.</b> | <b>Estimated Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>   | <b>3</b>    | <b>4</b>        | <b>5</b>                  | <b>6</b>                    |
|  | S/Fixing of 75mmdia PVC Pipe 6 kg/sqcm (G.F&F.F)   | R/m         | 25.00           | 130.15                    | 3253.75                     |
|  | P/ Fixing of Plain bend,socket etc 110mm dia (dsr17.38.1.1)  | Nos         | 10.00           | 349.35                    | 3493.50                     |
|  | P/ Fixing of Plain bend,socket etc 75mm dia (dsr 17.38.2.1)  | Nos         | 10.00           | 287.70                    | 2877.00                     |
|  | P/Fixing of 580mm long water closet Pan ( W.C) + 12.5 lit flushing cistern (sl 12.2.1)   | Nos         | 4.00            | 2779.52                   | 11118.08                    |
|  | P/Fixing of Brass Bib Cock 15mm  | Nos         | 5.00            | 262.63                    | 1313.15                     |
|  | P/Fixing of G.I.Pipe.B-class (dsr 18.10)   | Nos         |                 |                           |                             |
|  | 15mm dia   | R/m         | 120.00          | 145.01                    | 17401.20                    |
|  | Wash Basins (DSR 2007 Item no. 17.7.1)   | Nos         | 4.00            | 1105.52                   | 4422.08                     |
|  | UrinalsGents (DSR 2007 Item no. 17.5.3)  | Nos         | 3.00            | 10873.00                  | 32619.00                    |
|  | Construction of Under Ground Water tank 4KL capacity @ Rs. 5.00 per liter  | KL          | 1.00            | 20000.00                  | 20000.00                    |
|  | Pumping Plant for pumping water to Terrace tanks from underground reservoir  | no.         | 1.00            | 10000.00                  | 10000.00                    |
|  | Pipelime works from pump to individual reservoirs DSR 18.10  |             |                 | 0.00                      | 0.00                        |
|  | Providing and fixing chlorinated polyvinyl chloride 40mm CPVC Pipe having thermal stability for hot and cold water supply including all CPVC plain & brass threaded fittings this include jointing of pipes with solvent cement ,trenching,refilling and testing of joints complete as per direction of E/I (DSR 18.9.5) | m           | 40              | 349.69                    | 13987.60                    |
|  | Providing and fixing 20mm G.I. Medium Pipe complete with G.I.fittings and clamps including cutting and making good the walls etc. (18.10.2)  | m           | 40              | 183.37                    | 7334.80                     |
|  | Providing and fixing gun metal gate valve with wheel of approved quality 25mm DSR 2007 18.17.1   | no.         | 1               | 391.14                    | 391.14                      |

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|--|--|-------------|-----------------|---------------------------|-----------------------------|
| <b>BILL OF QUANTITIES</b>  |  |             |                 |                           |                             |
| <b>Item No.</b>  | <b>Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Estimated Rate Rs.</b> | <b>Estimated Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>   | <b>3</b>    | <b>4</b>        | <b>5</b>                  | <b>6</b>                    |
|  | RCC water storage tank on terrace with cover and suitable locking arrangement of 4000 lit each   | ltr         | 4000            | 7.19                      | 28760.00                    |
|  | Providing & Fixing PTMT Ball cock of approved quality, colour and make complete with epoxy coated aluminum rod with LP/HPHD plastic ball DSR 2007 Item 18.62.5   | no.         | 1               | 1833.47                   | 1833.47                     |
|  | <b>Internal Electrification</b>  |             |                 |                           | 0.00                        |
|  | Point wiring in PVC conduit,with piano type switch:wiring for light point/fan point/exhaust fan point/call bell point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface/recessed PVC conduit with piano type switch,phonemic laminated sheet,suitable size M.S.box and earthing the point with 1.5 sq mm FR PVC insulated copper dsr 1.8.2 |             |                 |                           | 0.00                        |
|  | Group B  | Point       | 120.00          | 417.85                    | 50142.00                    |
|  | S/F piano type switch/socket:Supply and fixing following piano type switch socket on the existing switch box/cover including connections etc as required.  |             |                 |                           | 0.00                        |
|  | 5/6 amps switch dsr 1.23.1   | Each        | 28.00           | 23.29                     | 652.12                      |
|  | 3 pin 5/6 amps switch outlet dsr 1.23.4  | Each        | 28.00           | 28.77                     | 805.56                      |
|  | 15/16 amps switch dsr 1.23.3   | Each        | 3.00            | 52.06                     | 156.18                      |
|  | Twin Control point wiring in PVC conduit with piano type switch:Wiring for twin control light point with 1.5 sq mm FR PVC insulated copper conductor single core cable in surface/recessed PVC conduit with 2 way piano type switch,phonemic laminated sheet,suitable size M.S.box and earthing the point with 1.5 sq mm FR PVC insulated copper conductor             | Point       | 4.00            | 545.26                    | 2181.04                     |

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|--|--|-------------|-----------------|-------------------------------|---------------------------------|
| <b>BILL OF QUANTITIES</b>  |  |             |                 |                               |                                 |
| <b>Item<br/>No.</b>  | <b>Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Estimated<br/>Rate Rs.</b> | <b>Estimated<br/>Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>   | <b>3</b>    | <b>4</b>        | <b>5</b>                      | <b>6</b>                        |
|  | single core cable etc.as required dsr 1.9  |             |                 |                               |                                 |
|  | Power plug wiring in PVC conduit (2x4 sq.mm): Wiring for light /power plug with 2x4 sq mm FR PVC insulated copper conductor single core cable in surface/recessed PVC conduit with 1 No 4 sq mm FR PVC insulated copper conductor single core cable etc.as required for loop ear things as required dsr 1.12 | Mtr         | 180.00          | 132.89                        | 23920.20                        |
|  | Circuit/sub-main wiring in PVC Conduit:Wiring for circuit/sub main wiring along withearth wire with the following sizes of PVC insulated,copper conductor,single core cable in in surface/recessed PVC conduit as required   |             |                 |                               | 0.00                            |
|  | 2x 2.5 sq mm + 1x 2.5 sq mm earth wise dsr 1.14.2  | Mtr         | 330.00          | 110.97                        | 36620.10                        |
|  | 4x 25 sq mm + 2x 16 sq mm earth wise dsr 1.14.13   | Mtr         | 5.00            | 874.06                        | 4370.30                         |
|  | 4x 10.5 sq mm + 2x 10 sq mm earth wise 1.14.11   | Mtr         | 20.00           | 402.78                        | 8055.60                         |
|  | S/F TP MCB isolator: Supplying and fixing following rating four pole,415 volts,isolator in the existing MCB DB complete with connection,testing and commissioning etc.as required.( make Havell`s / HPL/Standard) item no. 50 DSR  |             |                 | 0.00                          | 0.00                            |
|  | 40 amps dsr 2.55.1   | Each        | 1.00            | 472.65                        | 472.65                          |
|  | 63 amps dsr 2.55.2   | Each        | 2.00            | 495.94                        | 991.88                          |

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|--|--|-------------|-----------------|-------------------------------|---------------------------------|
| <b>BILL OF QUANTITIES</b>  |  |             |                 |                               |                                 |
| <b>Item<br/>No.</b>  | <b>Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Estimated<br/>Rate Rs.</b> | <b>Estimated<br/>Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>   | <b>3</b>    | <b>4</b>        | <b>5</b>                      | <b>6</b>                        |
|  | S/F C series MCB : Supply and fixing 5<br>amps to 32 amps rating 240 volts,C<br>series,miniature circuit breaker<br>suitable for lighting and other loads of<br>following pole in the existing MCB DB<br>complete with connection,testing and<br>commissiioning etc as required.( make<br>Havell's / HPL/Standard)   |             |                 |                               | 0.00                            |
|  | Single Pole dsr 2.52.1   | Each        | 11.00           | 128.78                        | 1416.58                         |
|  | S/F B SP MCB : Supply and fixing 5<br>amps to 32 amps rating 240 volts,B<br>series,miniature circuit breaker<br>suitable for lighting and other loads of<br>following pole in the existing MCB DB<br>complete with connection,testing and<br>commissiioning etc as required.( make<br>Havell's / HPL/Standard)   |             |                 |                               | 0.00                            |
|  | Single Pole dsr2.51.1  | Each        | 30.00           | 117.82                        | 3534.60                         |
|  | Triple pole and neutral dsr 2.51.4   | Each        | 3.00            | 482.24                        | 1446.72                         |
|  | S/F power plug point piano type<br>accessories: Supply and fixing metal<br>box of 180mm x 100 mm x 60 mm<br>deep ( nominal size) on surface or in<br>recess with suitable size of phenolic<br>laminated sheet cover in front<br>including providing and fixing 6 pin 5/6<br>& 15/16 amps socket outlet and 15/16<br>amps piano type<br>switch,connetion,painting etc.as<br>required dsr 1.30 | Mtr         | 11.00           | 220.57                        | 2426.27                         |
|  | S/F TP MCB DB: Supplying and fixing<br>following way three pole and<br>natural,sheet steel,MCB distribution<br>board,415 volts,on<br>surface/recess,complete with tinned<br>copper bushbar,neutral bushbar,earth<br>bar din bar,detachable gland plate,<br>interconnections,phosphatized and<br>powder painted including earthing as   |             |                 |                               | 0.00                            |



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|--|---|-------------|-----------------|-------------------------------|---------------------------------|
| <b>BILL OF QUANTITIES</b>  |   |             |                 |                               |                                 |
| <b>Item<br/>No.</b>  | <b>Description</b>  | <b>Unit</b> | <b>Quantity</b> | <b>Estimated<br/>Rate Rs.</b> | <b>Estimated<br/>Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>  | <b>3</b>    | <b>4</b>        | <b>5</b>                      | <b>6</b>                        |
|  | required(but without MCB/RCCB/isolator)( make Havell's / HPL/Standard)  |             |                 |                               |                                 |
|  | 8 way (4+24) Double door,horizontal type dsr 2.33.6   | Each        | 2.00            | 2470.11                       | 4940.22                         |
|  | S/F SP MCB DB:Supplying and fixing following way single pole and natural,sheet steel,MCB distribution board,240 volts,on surface/recess,complete with tinned copper bushbar,neutral bushbar,earth bar din bar,detachable gland plate, interconnections,phosphatized and powder painted including earthing as required(but without MCB/RCCB/isolator)( make Havell's / HPL/Standard) |             |                 |                               |                                 |
|  | 4 way (4+12) single door horizontal typedsr 2.33.4  |             | 1.00            | 1796.07                       | 1796.07                         |
|  | 6-8 way (4+24) Double door horizontal type dsr 2.33.6   |             | 2.00            | 2470.11                       | 4940.22                         |
|  | G.I.earth pipe electrode: Earthing with G.I.earth pipe 4.5 mm longx 40 mm dia including accessories,and providing masonry encloser with cover plate having locking arrangement and watering pipe etc.( but without charcoal or cock and salt completeas required) dsr 3.1   | Set         | 2.00            | 2049.52                       | 4099.04                         |
|  | Salt/Charcoal for pipe earth electrode: Extra for using salt and charcoal for pipe earth electrode as required dsr 3.3  | Set         | 2.00            | 650.75                        | 1301.50                         |
|  | S/L 25mm X 6mm G.I.earth strip in ground: Supplying and laying 25mmx 6mm G.I.strip at 0.50 metre below  | Mtr         | 20.00           | 82.20                         | 1644.00                         |

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|--|---|-------------|-----------------|---------------------------|-----------------------------|
| <b>BILL OF QUANTITIES</b>  |   |             |                 |                           |                             |
| <b>Item No.</b>  | <b>Description</b>  | <b>Unit</b> | <b>Quantity</b> | <b>Estimated Rate Rs.</b> | <b>Estimated Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>  | <b>3</b>    | <b>4</b>        | <b>5</b>                  | <b>6</b>                    |
|  | ground as strip earth electrode,including soldering etc as required   |             |                 |                           |                             |
|  | S/F vertical type TP MCB DB: Supplying installation,testing and commissioning of surface/recess mounting,vertical type,415 volts TPN MCB distribution board of sheet steel,dust protected,duly phosphatized and powder painted,inclusive of 200 amps tinned copper busbar,common neutral link,earth bar,din bar for mounting MCB s,detachable gland/Know out plate and with 100 amps,10 KA MCCB as incomer MCCB and busbar of following ways (but without MCB s)as required.(Note:for providing 3 phase outlets to DBs) of make Havell's / HPL/Standard |             |                 |                           | 0.00                        |
|  | 8 way with 100 amps MCCB as incomer dsr 2.35.2  | Each        | 1.00            | 4867.61                   | 4867.61                     |
|  | S/F brass holder: Supply and fixing brass batten/angle holder including connection etc,required( of make Anchor/Miner/Arkaylite) dsr 1.34   | Each        | 52.00           | 45.21                     | 2350.92                     |
|  | Providing and fixing 250 watt HPSV fitting with 250 watt.S.V.D lamp,suitable G.I.pipe bracket clamp,nuts and bolts, 3 x 2.5 sq mm PVC dopper wiring controlling switches,complete with testing and commissioning etc as required (of make Philips/Bajaj)  | Each        | 3.00            | 7690.00                   | 23070.00                    |
|  | S/F switch fuse unit rewire able type triple pole with neutral link,415 volt 100 amp.(of make Havell's / HPL/Standard)  | Each        | 1.00            | 5782.92                   | 5782.92                     |

| <b>"CONSTRUCTION OF DWELLING UNITS &amp; DEVELOPMENT OF INFRASTRUCTURE Madhukom<br/>under Ranchi BSUP Programme"<br/>(Madhukam Slum)</b> |   |             |                 |                           |                             |
|--|---|-------------|-----------------|---------------------------|-----------------------------|
| <b>BILL OF QUANTITIES</b>  |   |             |                 |                           |                             |
| <b>Item No.</b>  | <b>Description</b>  | <b>Unit</b> | <b>Quantity</b> | <b>Estimated Rate Rs.</b> | <b>Estimated Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>  | <b>3</b>    | <b>4</b>        | <b>5</b>                  | <b>6</b>                    |
|  | S/F Metal boxes: Supplying and fixing metal box of following sizes(nominal size) on surface or in recess with suitable size of phelolic laminated sheet cover in front including painting etc as required.  |             |                 |                           | 0.00                        |
|  | 200 mm x 300mm x 100 mm deep dsr 1.22.14  | Each        | 1.00            | 234.27                    | 234.27                      |
|  | S/F B series SP MCB blanking plate : Supply and fixing single pole blanking plate in the existing MCB DB complete with connection,testing and commisssioning etc as required.( make Havell's / HPL/Standard) dsr 2.53   | Each        | 28.00           | 2.74                      | 76.72                       |
|  | P/F M.V. danger notice plate: Providing and fixing M.V.Danger notice plate of 200 mm x 150mm made of mild steel at least 2 mm thick and vitreous enamelled white on both side and with inscription in signal red colour on front side as required. Dsr 2.71   | Each        | 1.00            | 93.16                     | 93.16                       |
|  | S/F call bell/buzzer : supply and fixing call bell/buzzer suitable for D.C./A.C. single phase,230 volts,complete as required dsr 1.38   | Each        | 3.00            | 35.62                     | 106.86                      |
|  |   |             | G.Total         |                           | <b>3880305.98</b>           |
|  | <b>Total Cost of Community Centres (D )</b>   | <b>no.</b>  | <b>1.00</b>     | <b>3880305.98</b>         | <b>3880305.98</b>           |
|  | <b>Livelihood Center</b>  |             |                 |                           |                             |
|  | Earth work in Execavation in trenches for foundation, pipes, cable etc. in ordinary soil in clay or sand) including lift upto 1.5 m. lead upto 50mm and dressing of sides and rammings of bottom and disposal of surplus excavated earth directed by the Enginner i/e within a lead of 50m. (5.1.1) | cum         | 365.31          | 43.61                     | 15931.22                    |

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|--|--|-------------|-----------------|---------------------------|-----------------------------|
| <b>BILL OF QUANTITIES</b>  |  |             |                 |                           |                             |
| <b>Item No.</b>  | <b>Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Estimated Rate Rs.</b> | <b>Estimated Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>   | <b>3</b>    | <b>4</b>        | <b>5</b>                  | <b>6</b>                    |
|  | Providing and laying in cement concrete 1:4:8 (1 cement : 4 fine Sand : 8 graded brick aggregate 40mm. Nominal Size) and curing complete, including cost of formwork in foundation and floors. (5.3.4)   | cum         | 31.20           | 2212.42                   | 69038.29                    |
|  | Providing designation 75A brick work in 1:4 cement and fine sand of 1.25 fineness modulus mortar in foundation and plinth including supply of all materials, labour and tools and plants etc. required for proper completion of the work (5.2.2)   | cum         | 143.59          | 2357.73                   | 338536.22                   |
|  | Providing designation 75A brick work in 1:4 cement and fine sand of 1.25 fineness modulus mortar in foundation and plinth including supply of all materials, labour and tools and plants etc. required for proper completion of the work but in super structure above plinth level upto floor two level (upto two storeys) including necessary cutting and moulding of brick work as required and also including hency combed brick in thickness of wall more than 12cms. (5.2.10) | cum         | 184.30          | 2402.01                   | 442690.44                   |
|  | providing & laying RCC M 20 in band at plinth Beam as per building specification and direction of E/I (5.3.6.1)  | cum         | 19.46           | 4340.60                   | 84468.08                    |
|  | Half B/W in CM 1:3 in Parapet with bricks of class designated 75 as per building specification and E/I (6.13.1)  | sqm         | 85.00           | 441.14                    | 37496.90                    |
|  | Extra for providing and placing in position 6 mm 2nos MS bar at every third course of half brick masonry with F.P.S. bricks(DSR 6.15)  | sqm         | 85.00           | 65.49                     | 5566.65                     |

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|--|--|-------------|-----------------|-------------------------------|---------------------------------|
| <b>BILL OF QUANTITIES</b>  |  |             |                 |                               |                                 |
| <b>Item<br/>No.</b>  | <b>Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Estimated<br/>Rate Rs.</b> | <b>Estimated<br/>Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>   | <b>3</b>    | <b>4</b>        | <b>5</b>                      | <b>6</b>                        |
|  | RCC works with cement approved coarse sand and 2 cm (3/4") gauge approved stone ballast in the proportion 1:1.5:3 (1cement :4.5 aggregate) in lintels of doors and windows excluding supply of reinforcement and its bending the same with 24 B WG binding wire and necessary centering and shuttering etc. and also including supply of all materials labours and tools and plants etc required for proper completion of works strength of the concrete shall no be less than M -20 (5.3.8.1) Extra for R.C.C. or P.C.C. work for each consecutive floor above first floor complete as per direction of E/I. (5.3.29) |             |                 |                               |                                 |
|  | GF & FF  | cum         | 2.10            | 4903.99                       | 10286.61                        |
|  | SF   | cum         | 0.67            | 4962.14                       | 3324.63                         |
|  | RCC works with cement approved coarse sand and 2 cm (3/4") gauge approved stone ballast in the proportion 1:1.5:3 (1cement : 4.5 aggregate) in Columns excluding supply of reinforcement and its bending the same with 24 B WG binding wire and necessary centering and shuttering etc. and also including supply of all materials labours and tools and plants etc required for proper completion of works strength of the concrete shall not less than M - 20 (5.3.14) Extra for R.C.C. or P.C.C. work for each consecutive floor above first floor complete as per direction of E/I. (5.3.29)                       |             |                 |                               |                                 |
|  | GF & FF  | cum         | 77.68           | 4528.33                       | 351777.54                       |

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|--|---|-------------|-----------------|---------------------------|-----------------------------|
| <b>BILL OF QUANTITIES</b>  |   |             |                 |                           |                             |
| <b>Item No.</b>  | <b>Description</b>  | <b>Unit</b> | <b>Quantity</b> | <b>Estimated Rate Rs.</b> | <b>Estimated Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>  | <b>3</b>    | <b>4</b>        | <b>5</b>                  | <b>6</b>                    |
|  | SF  | cum         | 8.69            | 4586.48                   | 39856.51                    |
|  | RCC works with cement approved coarse sand and 2 cm (3/4") gauge approved stone ballast in the proportion 1:1.5:3 (1cement : 4.5 aggregate) in Slab excluding supply of reinforcement and its bending the same with 24 B WG binding wire and necessary centering and shuttering etc. and also including supply of all materials labours and tools and plants etc required for proper completion of works strength of the concrete shall not less than M -20 (5.3.9.1) Extra for R.C.C. or P.C.C. work for each consecutive floor above first floor complete as per direction of E/I. (5.3.29)     |             |                 |                           |                             |
|  | GF & FF   | cum         | 78.04           | 4959.47                   | 387037.04                   |
|  | SF  | cum         | 6.08            | 5017.62                   | 30507.13                    |
|  | TF(Mumty slab)  | cum         | 2.07            | 5075.77                   | 10506.84                    |
|  | RCC works with cement approved coarse sand and 2 cm (3/4") gauge approved stone ballast in the proportion 1:2:4 (1cement : 6 aggregate) in Lighter Beam excluding supply of reinforcement and its bending the same with 24 B WG binding wire and necessary centering and shuttering etc. and also including supply of all materials labours and tools and plants etc required for proper completion of works strength of the concrete shall not less than M - 20 (5.3.11) Extra for R.C.C. or P.C.C. work for each consecutive floor above first floor complete as per direction of E/I. (5.3.29) |             |                 |                           |                             |

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|--|--|-------------|-----------------|---------------------------|-----------------------------|
| <b>BILL OF QUANTITIES</b>  |  |             |                 |                           |                             |
| <b>Item No.</b>  | <b>Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Estimated Rate Rs.</b> | <b>Estimated Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>   | <b>3</b>    | <b>4</b>        | <b>5</b>                  | <b>6</b>                    |
|  | GF & FF  | cum         | 20.66           | 5338.87                   | 110301.05                   |
|  | SF   | cum         | 17.96           | 5397.02                   | 96930.48                    |
|  |  |             |                 |                           |                             |
|  | Providing Tor steel reinforcement of 8mm,10mm,12mm & 16mm,20mm dia bars as per approved design and drawing excluding carriage of Rods (straight or in coil) to work site cutting, bending and binding with annealed wire with cost of wire removal of rust, placing the rods in position all complete as per building specification and direction of E/I (5.5.5) | mt          | 20.01           | 42523.58                  | 850896.84                   |
|  |  |             |                 |                           |                             |
|  | 12mm cement plaster in 1:6 single coat on fair side of single or half brick wall for interior plastering upt floor two level including internal rounded angles chamfers. And/or rounded angles not exceeding 80mm. In grit and finished even and smooth. No extra for mixing any additive. 1 cement : 6 fine sand (5.7.3)  | Sqm         | 1427.71         | 60.88                     | 86918.98                    |
|  |  |             |                 |                           |                             |
|  | 6mm cement plaster in single coat on ceiling with clean sand as per building specification and direction of E/I 1cement : 4 fine sand (5.7.6)  | Sqm         | 245.33          | 60.57                     | 14859.46                    |
|  | 15mm cement plaster in single coat on Rough side of single or half brick wall for interior paltering upto floor two level including internal rounded angles chamfers. And/or rounded angles not exceeding 80mm. In grit and finished even and smooth. 1 cement : 6 fine sand (Sl. No. DSR 13.2)  | Sqm         | 857.03          | 107.61                    | 92225.00                    |

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|--|--|-------------|-----------------|---------------------------|-----------------------------|
| <b>BILL OF QUANTITIES</b>  |  |             |                 |                           |                             |
| <b>Item No.</b>  | <b>Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Estimated Rate Rs.</b> | <b>Estimated Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>   | <b>3</b>    | <b>4</b>        | <b>5</b>                  | <b>6</b>                    |
|  | Providing R.C.C.in M20 with nominal mix of (1:1.5:3) in Staircase with approved quality of stone chips 20mm to 6 mm size graded and clean coarse sand of F.M.2.5 to3 including screening,shuttering,mixing cement concrete in mixer and placing in position,vibrating,curing(but excluding the cost of reinforcement,taxes and royalty all complete,as per building specification and direction of E/I (5.3.18.1) G.F+F.F<br>Extra for R.C.C. or P.C.C. work for each consecutive floor above first floor complete as per direction of E/I. (5.3.29) |             |                 |                           |                             |
|  | GF + FF  | cum         | 4.70            | 7330.57                   | 34453.68                    |
|  | SF   | cum         | 2.34            | 7388.72                   | 17289.60                    |
|  | 25mm. Cemnt concrete flooring 1:2:4 ( 1 cement : 2 coarse sand :4 gradd stone aggregate of size 12.5mm and below by volume) laid over set and hardened surface of sturctural slab or base concrete finished with a floating coat of neat cement using cement slurry for bond at the rate of 2.75 Kg. of cement per Sq. M of Floor including fixinf of Glass Strips) but excluding cost of Glass Strps. (5.6.7)   | Sqm         | 432.86          | 142.69                    | 61764.79                    |
|  | Mild Steel or iron work of small size and sections such as holding down bolts. Hold fast. Tie rods. Grating etc. (whtn not included in and overall rates) wrought to required Shape as necessary for bending etc including supply of steel and its wastage including cost of bolts. nuts if required for and welding, grinding and making holes as required for completion of  | mt          | 1.46            | 41070.63                  | 59963.12                    |



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|--|--|-------------|-----------------|---------------------------|-----------------------------|
| <b>BILL OF QUANTITIES</b>  |  |             |                 |                           |                             |
| <b>Item No.</b>  | <b>Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Estimated Rate Rs.</b> | <b>Estimated Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>   | <b>3</b>    | <b>4</b>        | <b>5</b>                  | <b>6</b>                    |
|  | work<br>Fabrication of holes, Door, Chaukhats<br>Nosing<br>(5.5.7)   |             |                 |                           |                             |
|  |  |             |                 |                           |                             |
|  | Supply and fixing of flush Doors<br>commercial quality conforming to I.S<br>2202 part 1(1983) including Fixing of<br>wooden eleats and stoppers and<br>including fixing and adjustment of<br>hinges bolts locks handles springs<br>fitting with necessary screws to be<br>supplied departmentally. 32 mm Thick<br>(5.4.40)   | Sqm         | 57.33           | 867.81                    | 49751.55                    |
|  |  |             |                 |                           |                             |
|  | Supply and fixing of flush Doors<br>commercial quality conforming to I.S<br>2202 part 1(1983) including Fixing of<br>wooden eleats and stoppers and<br>including fixing and adjustment of<br>hinges bolts locks handles springs<br>fitting with necessary screws to be<br>supplied departmentally. 32 mm Thick<br>For double leaf shutters ad\ d extra in<br>over all rates (5.4.41) | Sqm         | 91.35           | 927.98                    | 84770.97                    |
|  |  |             |                 |                           |                             |
|  | Providing 12 mm cement plaster<br>CP(1:3) in skirting with floting coat of<br>neat cement including rounding of<br>junctions with floors etc as per<br>specification and direction of E/I ( 5.6.10)  | sqm         | 15.00           | 102.10                    | 1531.50                     |
|  | providing two coat of Snowcem of<br>approved shed and make over a coat<br>of cement primer on new surface<br>including preparing ofplastered surface   | sqm         | 857.03          | 40.94                     | 35086.81                    |

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|--|--|-------------|-----------------|-------------------------------|---------------------------------|
| <b>BILL OF QUANTITIES</b>  |  |             |                 |                               |                                 |
| <b>Item<br/>No.</b>  | <b>Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Estimated<br/>Rate Rs.</b> | <b>Estimated<br/>Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>   | <b>3</b>    | <b>4</b>        | <b>5</b>                      | <b>6</b>                        |
|  | smooth with sand<br>paper,scaffolding,curing and taxes all<br>complete as per specification and<br>direction of E/I (5.8.24)   |             |                 |                               |                                 |
|  | P/F handrail of Approved size by<br>welding etc to steel ladder<br>railing,balcony railingand stair case<br>railing including applying a priming<br>coat of approved steel primer<br>G.I.Pipe(DSR 10.26.3)   | kg          | 225.00          | 93.16                         | 20961.00                        |
|  | Sand filling in plinth under floors<br>including watering, ramming,<br>consolidating and dressing complete<br>including lead upto 50m and lift upto<br>1.5m excluding cost of sand,(5.1.10)  | cum         | 98.00           | 115.76                        | 11344.48                        |
|  |  |             |                 |                               |                                 |
|  | White washing with lime on<br>undrcoated wall surfaces (Three coat)<br>to give and even shade including<br>thotughly broming the surface to<br>remove all dirt, dust mortar drops and<br>other foreign matte. (5.8.3)  | Sqm         | 1673.04         | 5.52                          | 9235.16                         |
|  |  |             |                 |                               |                                 |
|  | Providing and laying water proofing<br>treatment on roofs of slabs by applying<br>cement slurry mixed with water<br>proofing cement compound consisting<br>of applying: a) after surface<br>preparation, first layer of slurry of<br>cement@0.488 kg/sqm mixed with<br>water proofing cement compound @<br>0.253 kg/sqm, b) laying second layer of<br>fiber glass cloth when the first layer is<br>still green. Overlaps of joints of fiber<br>clothshould not be less than 10cm. c)<br>third layer of 1.5mm thickness<br>consisting of slurry of cement @ 1.289<br>kg/sqm mixed with water proofing<br>cement compound @ 0.670 kg/sqm | Sqm         | 360.00          | 282.63                        | 101746.80                       |

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|--|--|-------------|-----------------|---------------------------|-----------------------------|
| <b>BILL OF QUANTITIES</b>  |  |             |                 |                           |                             |
| <b>Item No.</b>  | <b>Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Estimated Rate Rs.</b> | <b>Estimated Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>   | <b>3</b>    | <b>4</b>        | <b>5</b>                  | <b>6</b>                    |
|  | and coarse sand 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30cm on parapet wall and tucked into groove in parapet all around. d) fourth and final layer of brick tilling with cement ,ortar (which will be paid seperately. For the purpose of measurement the entire treated surface will be measured. (DSR 2007, Item no. 22.6) |             |                 |                           |                             |
|  |  |             |                 |                           |                             |
|  | Providing two coats of painting with ready mixed paint over a coat of primer over wooden surface including preparing of surface after cleaning removing dirt etc. complete as per specification and direction of E/I 5.8.29  | sqm         | 396.48          | 60.06                     | 23812.59                    |
|  | Providing and fixing fan hook of 16mm dia MS bar 1m long bent to required size and shape,placed in position and fixed in RCC slab/beam at the time of casting all complete as per building specification and direction of E/I (5.5.13)   | Each        | 25.00           | 72.27                     | 1806.75                     |
|  | Extra for Providing & fixing 30 *4 mm glass strip in joints of flooring,complete job as per specification & direction of E/I (5.6.13)  | mt          | 1440.00         | 16.33                     | 23515.20                    |
|  | <b>Water Supply and Sanitation</b>   |             |                 |                           |                             |
|  | S/ Fixing of 100mmdia PVC Pipe 6kg/sqcm. (G.F&F.F) DSR 12.41.2   | R/m         | 27.00           | 223.86                    | 6044.22                     |
|  | S/Fixing of 75mmdia PVC Pipe 6 kg/sqcm (G.F&F.F)   | R/m         | 38.00           | 130.15                    | 4945.70                     |
|  | P/ Fixing of Plain bend,socket etc 100mm dia (dsr17.38.1.1)  | Nos         | 10.00           | 349.35                    | 3493.50                     |
|  | P/ Fixing of Plain bend,socket etc   | Nos         | 10.00           | 287.70                    | 2877.00                     |

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|--|---|-------------|-----------------|-------------------------------|---------------------------------|
| <b>BILL OF QUANTITIES</b>  |   |             |                 |                               |                                 |
| <b>Item<br/>No.</b>  | <b>Description</b>  | <b>Unit</b> | <b>Quantity</b> | <b>Estimated<br/>Rate Rs.</b> | <b>Estimated<br/>Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>  | <b>3</b>    | <b>4</b>        | <b>5</b>                      | <b>6</b>                        |
|  | 75mm dia (dsr 17.38.2.1)  |             |                 |                               |                                 |
|  | P/Fixing of 580mm long water closet<br>Pan ( W.C) + 12.5 lit flushing cistern (sl<br>12.2.1)  | Nos         | 6.00            | 2779.52                       | 16677.12                        |
|  | P/Fixing of Brass Bib Cock 15mm(8.5.1)  | Nos         | 10.00           | 262.63                        | 2626.30                         |
|  | P/Fixing of G.I.Pipe.B-class (dsr 18.10)  | Nos         |                 |                               |                                 |
|  | 15mm dia  | R/m         | 150.00          | 145.01                        | 21751.50                        |
|  | 20mm dia dsr 18.10.2  | R/m         | 48.00           | 183.37                        | 8801.76                         |
|  | Wash Basins (DSR 2007 Item no.<br>17.7.1)   | Nos         | 3.00            | 1826.07                       | 5478.21                         |
|  | UrinalsGents (DSR 2007 Item no.<br>17.5.3)  | Nos         | 3.00            | 10873.00                      | 32619.00                        |
|  | Stainless steel Kitchen Sink (DSR 2007<br>Item no. 17.10.11)  | Nos         | 3.00            | 8431.46                       | 25294.38                        |
|  | Construction of Under Ground Water<br>tank 4KL capacity @ Rs. 5.00 per liter  | KL          | 1.00            | 20000.00                      | 20000.00                        |
|  | Pumping Plant for pumping water to<br>Terrace PVC tanks from underground<br>reservoir   | no.         | 1.00            | 10000.00                      | 10000.00                        |
|  | Pipelime works from pump to<br>individual reservoirs DSR 18.10  |             |                 |                               |                                 |
|  | 40mm CPVC Pipe.(8.9.5)  | m           | 40              | 349.69                        | 13987.60                        |
|  | Providing and fixing gun metal gate<br>valve with wheel of approved quality<br>20mm DSR 2007 18.17.1  | no.         | 1               | 391.14                        | 391.14                          |
|  | RCC water storage tank on terrace<br>with cover and suitable locking<br>arrangement of 4000 lit each  | ltr         | 4000            | 7.19                          | 28760.00                        |
|  | Providing & Fixing PTMT Ball cock of<br>approved quality, colour and make<br>complete with epoxy coated aluminum<br>rod with LP/HPHD plastic ball DSR<br>2007 Item 18.62.5                              | no.         | 1               | 1833.47                       | 1833.47                         |
|  | <b>Internal Electrification</b>   |             |                 |                               |                                 |
|  | Point wiring in PVC conduit,with piano<br>type switch:wiring for light point/fan<br>point/exhaust fan point/call bell point<br>with 1.5 sq.mm FR PVC insulated<br>copper conductor single core cable in |             |                 |                               |                                 |

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|--|--|-------------|-----------------|-------------------------------|---------------------------------|
| <b>BILL OF QUANTITIES</b>  |  |             |                 |                               |                                 |
| <b>Item<br/>No.</b>  | <b>Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Estimated<br/>Rate Rs.</b> | <b>Estimated<br/>Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>   | <b>3</b>    | <b>4</b>        | <b>5</b>                      | <b>6</b>                        |
|  | surface/recessed PVC conduit with piano type switch,phonemic laminated sheet,suitable size M.S.box and earthing the point with 1.5 sq mm FR PVC insulated copper   |             |                 |                               |                                 |
|  | Group B dsr 1.8.2  | Point       | 150.00          | 417.85                        | 62677.50                        |
|  | S/F piano type switch/socket:Supply and fixing following piano type switch socket on the existing switch box/cover including connections etc as required.  |             |                 |                               |                                 |
|  | 5/6 amps switch dsr 1.23.1   | Each        | 25.00           | 23.29                         | 582.25                          |
|  | 3 pin 5/6 amps switch outlet dsr 1.23.4  | Each        | 25.00           | 28.77                         | 719.25                          |
|  | Twin Control point wiring in PVC conduit with piano type switch:Wiring for twin control light point with 1.5 sq mm FR PVC insulated copper conductor single core cable in surface/recessed PVC conduit with 2 way piano type switch,phonemic laminated sheet,suitable size M.S.box and earthing the point with 1.5 sq mm FR PVC insulated copper conductor single core cable etc.as required dsr 1.9 | Point       | 6.00            | 545.26                        | 3271.56                         |
|  | Power plug wiring in PVC conduit (2x4 sq.mm): Wiring for light /power plug with 2x4 sq mm FR PVC insulated copper conductor single core cable in surface/recessed PVC conduit with 1 No 4 sq mm FR PVC insulated copper conductor single core cable etc.as required for loop ear things as required dsr 1.12   | Mtr         | 325.00          | 110.97                        | 36065.25                        |
|  | Circuit/sub-main wiring in PVC Conduit:Wiring for circuit/sub main wiring along withearth wire with the following sizes of PVC insulated,copper conductor,single core cable in in  |             |                 |                               |                                 |

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|--|--|-------------|-----------------|---------------------------|-----------------------------|
| <b>BILL OF QUANTITIES</b>  |  |             |                 |                           |                             |
| <b>Item No.</b>  | <b>Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Estimated Rate Rs.</b> | <b>Estimated Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>   | <b>3</b>    | <b>4</b>        | <b>5</b>                  | <b>6</b>                    |
|  | surface/recessed PVC conduit as required   |             |                 |                           |                             |
|  | 2x 2.5 sq mm + 1x 2.5 sq mm earth wise dsr1.14.2   | Mtr         | 350.00          | 110.97                    | 38839.50                    |
|  | 4x 25 sq mm + 2x 16 sq mm earth wise dsr 1.14.13   | Mtr         | 5.00            | 874.06                    | 4370.30                     |
|  | 4x 10.5 sq mm + 2x 10 sq mm earth wise dsr 1.14.11   | Mtr         | 50.00           | 402.78                    | 20139.00                    |
|  | 4x 6 sq mm + 2x 6 sq mm earth wise dsr 1.14.10   | Mtr         | 25.00           | 283.59                    | 7089.75                     |
|  | S/F TP MCB isolator: Supplying and fixing following rating four pole,415 volts,isolator in the existing MCB DB complete with connection,testing and commissioning etc.as required.( make Havell's / HPL/Standard)  |             |                 |                           |                             |
|  | 40 amps dsr 2.55.1   | Each        | 1.00            | 472.65                    | 472.65                      |
|  | 63 amps dsr 2.55.2   | Each        | 2.00            | 495.99                    | 991.98                      |
|  | S/F C series MCB : Supply and fixing 5 amps to 32 amps rating 240 volts,C series,miniature circuit breaker suitable for lighting and other loads of following pole in the existing MCB DB complete with connection,testing and commissioning etc as required.( make Havell's / HPL/Standard) |             |                 |                           |                             |
|  | Single Pole dsr 2.52.1   | Each        | 20.00           | 128.78                    | 2575.60                     |
|  | S/F B SP MCB : Supply and fixing 5 amps to 32 amps rating 240 volts,B series,miniature circuit breaker suitable for lighting and other loads of following pole in the existing MCB DB complete with connection,testing and commissioning etc as required.( make Havell's / HPL/Standard)     |             |                 |                           |                             |
|  | Single Pole dsr 2.51.1   | Each        | 30.00           | 117.82                    | 3534.60                     |
|  | Triple pole and neutral 2.51.4   | Each        | 3.00            | 482.24                    | 1446.72                     |

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|--|---|-------------|-----------------|---------------------------|-----------------------------|
| <b>BILL OF QUANTITIES</b>  |   |             |                 |                           |                             |
| <b>Item No.</b>  | <b>Description</b>  | <b>Unit</b> | <b>Quantity</b> | <b>Estimated Rate Rs.</b> | <b>Estimated Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>  | <b>3</b>    | <b>4</b>        | <b>5</b>                  | <b>6</b>                    |
|  | S/F power plug point piano type accessories: Supply and fixing metal box of 180mm x 100 mm x 60 mm deep ( nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 5/6 & 15/16 amps socket outlet and 15/16 amps piano type switch,connection,painting etc.as required dsr 1.30                     | Mtr         | 20.00           | 220.57                    | 4411.40                     |
|  | S/F TP MCB DB: Supplying and fixing following way three pole and natural,sheet steel,MCB distribution board,415 volts,on surface/recess,complete with tinned copper bushbar,neutral bushbar,earth bar din bar,detachable gland plate, interconnections,phosphatized and powder painted including earthing as required(but without MCB/RCCB/isolator)( make Havell's / HPL/Standard) |             |                 |                           |                             |
|  | 4 way(4+12),Single door,Horizontal type dsr 2.33.4  | Each        | 1.00            | 1796.07                   | 1796.07                     |
|  | 6-8 way (4+24) Double door,horizontal type dsr 2.33.6   | Each        | 2.00            | 2470.11                   | 4940.22                     |
|  | G.I.earth pipe electrode: Earthing with G.I.earth pipe 4.5 mm longx 40 mm dia including accessories,and providing masonry encloser with cover plate having locking arrangement and watering pipe etc.( but without charcoal or cock and salt completeas required) dsr 3.1   | Set         | 2.00            | 2049.52                   | 4099.04                     |
|  | Salt/Charcoal for pipe earth electrode: Extra for using salt and charcoal for pipe earth electrode as required dsr 3.3  | Set         | 2.00            | 650.75                    | 1301.50                     |

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|--|---|-------------|-----------------|---------------------------|-----------------------------|
| <b>BILL OF QUANTITIES</b>  |   |             |                 |                           |                             |
| <b>Item No.</b>  | <b>Description</b>  | <b>Unit</b> | <b>Quantity</b> | <b>Estimated Rate Rs.</b> | <b>Estimated Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>  | <b>3</b>    | <b>4</b>        | <b>5</b>                  | <b>6</b>                    |
|  | S/L 25mm X 6mm G.I.earth strip in ground: Supplying and laying 25mmx 6mm G.I.strip at 0.50 metre below ground as strip earth electrode,including soldering etc as required dsr 3.12   | Mtr         | 20.00           | 82.20                     | 1644.00                     |
|  | S/F vertical type TP MCB DB: Supplying installation,testing and commissioning of surface/recess mounting,vertical type,415 volts TPN MCB distribution board of sheet steel,dust protected,duly phosphatized and powder painted,inclusive of 200 amps tinned copper busbar,common neutral link,earth bar,din bar for mounting MCB s,detachable gland/Know out plate and with 100 amps,10 KA MCCB as incomer MCCB and busbar of following ways (but without MCB s)as required.(Note:for providing 3 phase outlets to DBs) of make Havell`s / HPL/Standard |             |                 |                           |                             |
|  | 8 way with 100 amps MCCB as incomer dsr 2.35.2  | Each        | 1.00            | 4867.61                   | 4867.61                     |
|  | S/F brass holder: Supply and fixing brass batten/angle holder including connection etc,required( of make Anchor/Miner/Arkaylite) dsr 1.34   | Each        | 83.00           | 45.21                     | 3752.43                     |
|  | Providing and fixing 250 watt HPSV fitting with 250 watt.S.V.D lamp,suitable G.I.pipe bracket clamp,nuts and bolts, 3 x 2.5 sq mm PVC dopper wiring controlling switches,complete with testing and commissioning etc as required (of make Philips/Bajaj)  | Each        | 1.00            | 7690.00                   | 7690.00                     |
|  | S/F switch fuse unit rewire able type triple pole with neutral link,415 volt 100 amp.(of make Havell`s /  | Each        | 1.00            | 5782.92                   | 5782.92                     |



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|--|--|-------------|-----------------|---------------------------|-----------------------------|
| <b>BILL OF QUANTITIES</b>  |  |             |                 |                           |                             |
| <b>Item No.</b>  | <b>Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Estimated Rate Rs.</b> | <b>Estimated Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>   | <b>3</b>    | <b>4</b>        | <b>5</b>                  | <b>6</b>                    |
|  | HPL/Standard)  |             |                 |                           |                             |
|  | S/F B series SP MCB blanking plate :<br>Supply and fixing single pole blanking plate in the existing MCB DB complete with connection,testing and commissisoning etc as required.( make Havell's / HPL/Standard) dsr 2.53                                       | Each        | 24.00           | 2.74                      | 65.76                       |
|  | P/F M.V. danger notice plate:<br>Providing and fixing M.V.Danger notice plate of 200 mm x 150mm made of mild steel at least 2 mm thick and vitreous enamelled white on both side and with inscription in signal red colour on front side as required. Dsr 2.71 | Each        | 1.00            | 93.16                     | 93.16                       |
|  | <b>TOTAL COST OF Small Livlihood Center</b>  |             |                 |                           | <b>4044990.64</b>           |
|  | <b>Total Cost of Livelihood Centers (E)</b>  | <b>no.</b>  | <b>1.00</b>     | <b>4044990.64</b>         | <b>4044990.64</b>           |
|  |  |             |                 |                           |                             |
|  | <b>EXTERNAL SERVICES</b>   |             |                 |                           |                             |
|  | DRAINAGE   |             |                 |                           |                             |
|  | Drain Size D1 (150mmx200mm)  | Rmt         | 1338.00         | 502.04                    | 671729.52                   |
|  | Drain Size D2 (300 x460mm)   | Rmt         | 234.00          | 859.99                    | 201236.62                   |
|  | Drain Size D3 (600 x900mm)   | Rmt         | 0.00            | 1565.75                   | 0.00                        |
|  | P/ Laying of NP-2 RCC hume pipe 300mm Dia for crossing of roads (DSR2007.19.6.4)   | Rmt         | 120.00          | 464.09                    | 55690.80                    |
|  | Total  |             |                 |                           | 928656.94                   |
|  | <b>Total Cost of External Drainage Works (F)</b>   |             |                 |                           | <b>928656.94</b>            |
|  |  |             |                 |                           |                             |
|  | <b>Development of Parks</b>  |             |                 |                           |                             |
|  | Earth work in embankment in ordinary catage soil ( Analysis rate dsr 2.2.1)  | Cum         | 0.00            | 157.55                    | 0.00                        |
|  | Earth work in Execavation in trenches for foundation, pipes, cable etc. in ordinary soil in clay or sand) including lift upto 1.5 m. lead upto 50mm and dressing of sides and rammings of  | Cum         | 254.14          | 43.61                     | 11083.13                    |

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|--|--|-------------|-----------------|---------------------------|-----------------------------|
| <b>BILL OF QUANTITIES</b>  |  |             |                 |                           |                             |
| <b>Item No.</b>  | <b>Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Estimated Rate Rs.</b> | <b>Estimated Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>   | <b>3</b>    | <b>4</b>        | <b>5</b>                  | <b>6</b>                    |
|  | bottom and disposal of surplus excavated earth directed by the Enginner i/c within a lead of 50m. (5.1.1)  |             |                 |                           |                             |
|  | Providing and laying in cement concrete 1:4:8 (1 cement : 4 fine Sand : 8 graded brick aggregate 40mm. Nominal Size) and curing complete, including cost of formwork in foundation and floors. (5.3.4)   | Cum         | 42.36           | 2212.42                   | 93711.47                    |
|  | Providing designation 75A brick work in 1:4 cement and fine sand of 1.25 fineness modulus mortar in foundation and plinth including supply of all materials, labour and tools and plants etc. required for proper completion of the work (5.2.2)   | Cum         | 366.39          | 2357.73                   | 863844.10                   |
|  | 12mm cement plaster in single coat on fair side of single or half brick wall for interior plastering upto floor two level including internal rounded angles chamfers. And/or rounded angles not exceeding 80deg. In grit and finished even and smooth. No extra for mixing any additive 1 cement : 4 fine sand (5.7.2) | Sqm         | 1694.28         | 69.82                     | 118294.63                   |
|  | Providing two coat of snowcem of approved shade and make over a coat of cement primer on new surface including preparing the plastered surface smooth with sand paper, curing and taxes all complete as per specifications and direction of Engineer in Charge. (5.8.24)   | Sqm         | 1694.28         | 40.94                     | 69363.82                    |

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|--|--|-------------|-----------------|---------------------------|-----------------------------|
| <b>BILL OF QUANTITIES</b>  |  |             |                 |                           |                             |
| <b>Item No.</b>  | <b>Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Estimated Rate Rs.</b> | <b>Estimated Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>   | <b>3</b>    | <b>4</b>        | <b>5</b>                  | <b>6</b>                    |
|  | S.F.F. M.S grill gate with MS grill made of 20x60 mm M.S flats or 16 mm m.s. square bars fitted on 25x25x6 mm M.S. angles frame including cost of fabrication, providing necessary locking arrangement with haskal & dommy duly fixed in P.C.C. (1:2:4) blocks of required size applying primer red lead pant over steel work taxes all complete as per drawing specification & direction of E/I (5.5.30)  | kg          | 80.00           | 52.74                     | 4219.20                     |
|  | Grassing with 'doob' grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn free from weeds and fit for mowing including supplying good earth if needed (the good earth shall be paid for separately). In rows 5 cm apart in either direction. DSR Page 354 Code 23.10-23.10.3   | 100Sqm      | 5070.94         | 527.24                    | 26736.34                    |
|  | Preparation of beds for hedging and shrubbery by excavating 60cm. Deep and trenching the excavated base to a further depth of 30cm. Refilling the excavated earth after breaking clods and mixing with sludge or manure in the ratio of 8:1 (8 parts of stacked volume of sludge or manure after reduction by 8%), flooring with water, filling with earth if necessary, watering and finally fine dressing, leveling etc. including stacking and disposal of materials declared unserviceable and surplus earth by spreading and levelling as directed, within a lead of 50m lift up to 1.5 m complete (cost of sludge, manure or extra earth to be paid for separately). (252) | 100 Sqm     | 5070.94         | 1805.93                   | 91560.65                    |
|  | <b>Total cost for Parks Development (G)</b>  |             |                 |                           | <b>1278813.20</b>           |

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|--|---|-------------|-----------------|---------------------------|-----------------------------|
| <b>BILL OF QUANTITIES</b>  |   |             |                 |                           |                             |
| <b>Item No.</b>  | <b>Description</b>  | <b>Unit</b> | <b>Quantity</b> | <b>Estimated Rate Rs.</b> | <b>Estimated Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>  | <b>3</b>    | <b>4</b>        | <b>5</b>                  | <b>6</b>                    |
|  | <b>Concrete Roads and interlocking BOE work</b>   |             |                 |                           |                             |
| 1  | Providing designation 75A one brick on edge soling in road embankment. joint filled with local sand in proper grade camber or super elevation including cost of providing light barrier, danger signal, chowkidar, taxes and royalty, all complete, as per approved design, specification and direction of E/I (6.3.2)  | Sqm         | 290.00          | 197.65                    | 57378.50                    |
|  | <b>Per m Cost of 3.5m wide CC road</b>  |             |                 |                           |                             |
|  | Earth work in road embankment and shoulders with ordinary soil (vide classification of soil item-A) obtained from borrow pits or any other sources free from lons, stump roots, rubbish or any other ingredients likely to deteriorate or effect the stability of the embankment including breaking the clods maximum to 60mm cube, placing the earth in layers not exceeding 225mm in loose thickness, rough dressing including cost of cutting and removing shrubs and roots falling in borrow area all complete as per approved design specification and direction of E/I (Mode of measurement - Sectional measurement after required compaction). (6.1.1.1) | Cum         | 157.50          | 30.10                     | 4747.75                     |
|  | Extra for earth work in Hard soil all complete as per specification and direction of E/I (6.1.3)  | Cum         | 157.50          | 4.46                      | 702.45                      |
|  | Initial rolling of original ground all kinds of soil and compacting the same so as to achieve 90 to 95% of maximum dry density at O.M.C.  | Sqm         | 350.00          | 3.13                      | 1095.50                     |

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|--|--|-------------|-----------------|---------------------------|-----------------------------|
| <b>BILL OF QUANTITIES</b>  |  |             |                 |                           |                             |
| <b>Item No.</b>  | <b>Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Estimated Rate Rs.</b> | <b>Estimated Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>   | <b>3</b>    | <b>4</b>        | <b>5</b>                  | <b>6</b>                    |
|  | including cost of cutting and removing shrubs and roots including supply & carriage of water, watering with all leads & lifts and hire charge of road roller, all complete, as per specification and direction of E/I)<br>(b) Hire charge of road roller without depreciation and major repair<br>(6.1.12.b)   |             |                 |                           |                             |
|  | Sand filling in plinth under floors including watering, ramming, consolidating and dressing complete including lead upto 50m and lift upto 1.5m including cost of sand,(5.1.10)  | Cum         | 26.25           | 115.76                    | 3038.70                     |
|  | Providing designation 75A one brick flat soling in road embankment, joints filled with local sand in proper grade chamber or super elevation including cost of providing light barrier, danger signal, chowkida, taxes and royalty, all complete, as per approved design, specification and direction of E/I<br>(6.3.1)  | Sqm         | 350.00          | 122.88                    | 43008.00                    |
|  | Providing stone metal Grade-II (63mm to 45mm) size with stone screening materials type-A (13.2mm Size) in road embankment (6.3.9.1.ii)   | Cum         | 70.00           | 760.36                    | 53225.20                    |
|  | Providing R.C.C M-150 with nominal mix of (1:2:4) in foundation and plinth with approved quality of stone chips 20mm to 6mm size graded and clean coarse sand of F.M. 2.5 to 3 including screening, shuttering mixing cement concrete in mixer and placing in position, vibration striking, curing, Excluding the cost of reinforcement, taxes and royalty all complete as per building specification and direction of E/I (5.3.5) | Cum         | 52.50           | 3493.58                   | 183413.95                   |

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|--|--|-------------|-----------------|-------------------------------|---------------------------------|
| <b>BILL OF QUANTITIES</b>  |  |             |                 |                               |                                 |
| <b>Item<br/>No.</b>  | <b>Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Estimated<br/>Rate Rs.</b> | <b>Estimated<br/>Amount Rs.</b> |
| <b>1.</b>  | <b>2</b>   | <b>3</b>    | <b>4</b>        | <b>5</b>                      | <b>6</b>                        |
|  | Providing designation 75A one brick on end ending in road embankment in proper grade including cost of earth work in excavation taxes and royalty all complete as per approved design specification & direction of E/I (6.3.5) | meter       | 200.00          | 33.07                         | 6614.00                         |
|  | Providing and fixing in position pre-Moulded joint filler in expansion joints filler in expansion joints per cm depth/cm width (dsr 16.45)   | meter       | 105.00          | 2.74                          | 287.70                          |
|  | Total  |             |                 |                               | 296125.25                       |
|  | Rate Per meter   |             |                 |                               | 2961.25                         |
|  | Say Rate per meter   |             |                 |                               | 2961.00                         |
|  | For Road Length  | meter       | 930             | 2961.00                       | 2753730.00                      |
|  | <b>Total cost of proposed CC Road</b>  |             |                 |                               | <b>2753730.00</b>               |
|  | <b>Total cost for Concrete Road &amp; BOE (H)</b>  |             |                 |                               | <b>2811108.50</b>               |

|  |  |      |          |           |                   |
|--|--|------|----------|-----------|-------------------|
|  |  |      |          |           |                   |
|  | <b>Digester</b>  |      |          |           |                   |
|  | CONSTRUCTION OF 1 nos. SEWAGE BASED BIO-GAS PLANT for 100 houses each on turn key basis complete execution, commissioning and handing over after completion to the community/Municipal Corporation for using the gas for kitchen use. The sewage shall be taken from the sewerage system laid under this project. Complete system of Digester Pipelines from outlet sewer to the digester and gas to the consumer level with at least 40 household from each digester, biogas connections with individual meters to the connection holders. From Outlet manhole of sewer network to the digestors for production and then supply of Bio Gas to the consumers on turn key basis. Drawing of atypical Digester has been incorporated in Bid Document The Bidder shall give his own Design & Drawing based on 150 lpcd water supply and 80% water as sewage and get it approved from Engineer in Charge before execution. The cost includes one no. single roomed staff quarter for the maintenance staff and also two years O&M. | Nos. | 1.00     | 204000.00 | 204000.00         |
|  | Provision for tapping of gas and supply pipe with gas measuring devise etc.  | LS   |          |           | 40000.00          |
|  | <b>Total for 1 unit -</b>  |      |          |           | <b>244000.00</b>  |
|  | For 5 nos. of 100 house holds digester   | Nos. | Per Unit | 244000.00 | <b>1220000.00</b> |
|  | Add cost for resident of maintenance staff   | LS   |          |           | <b>100000.00</b>  |
|  | <b>Total Cost of Digester &amp; its accessories for 500 House Holds on Turn Key Basis (I)</b>  | LS   |          |           | <b>1320000.00</b> |
|  |  |      |          |           |                   |
|  | <b>External Sewerage System</b>  |      |          |           |                   |
|  | P & laying joining glazed stone ware pipes grade -A with stiff mixture of cement mortar in 1:1 etc complete( DSR-2007-19.1)  |      |          |           |                   |

|  |   |      |              |         |                   |
|--|---|------|--------------|---------|-------------------|
|  | 100mm dia   | R/m  | 4560.00      | 145.08  | 661564.80         |
|  | 150mm dia   | R/m  | 4560.00      | 207.76  | 947385.60         |
|  | P / laying C.C 1:5:10 all-round stone ware pipes including bed concrete.( DSR 2007.19.2)  |      |              |         | 0.00              |
|  | 100mm dia   | R/m  | 4560.00      | 453.74  | 2069054.40        |
|  | 150mm dia   | R/m  | 4560.00      | 554.92  | 2530435.20        |
|  | P/ fixing of S.W.gully trap grade -A with C.I.greeting brick masonry chamber with water tight C.I. cover with frame 300x300mm.( DSR 2007.19.4)  |      |              |         | 0.00              |
|  | 150x100mm with FPS bricks   | Nos  | 912.00       | 1317.87 | 1201897.40        |
|  | P / laying of NP-2 class RCC pipe with collars jointed with stiff mixture of cement mortar in 1:2 etc complete (DSR2007.19.6)   |      |              |         | 0.00              |
|  | 150mm dia   | R/m  | 225.00       | 277.90  | 62527.50          |
|  | 250mm dia   | R/m  | 125.00       | 353.73  | 44216.25          |
|  | Construction of brick masonry manhole in cement mortar in 1:4 RCC top slab with 1:2:4,Foundation concrete 1:4:8 mix,12mmth.plaster in side 1:3 with neat cement and making channels in 1:2:4 with neat cement etc complete.(DSR2007.19.7) |      |              |         | 0.00              |
|  | Inside size 90x80 cm and 45 cm depth I/c C.I.cover with frame   | Nos  | 35.00        | 7375.67 | 258148.45         |
|  | Extra depth for manhole   | m    | 52.50        | 3635.98 | 190888.95         |
|  | P/ fixing of M.S footrest I/c fixing in manhole with 20x20mm sq.bar. ( DSR 2007.19.15)  | Nos  | 175.00       | 205.24  | 35925.75          |
|  | Making connection from branch sewer line to main sewer line.up to depth 60 cm .(DSR 2007.19.22.2)   | Nos  | 1.00         | 6207.33 | 6207.33           |
|  | Extra for depth beyond 60 cm  | Mts. | 1.00         | 2061.71 | 2061.71           |
|  | Construction of brick masonry road gully chamber 50x45x60cm in1:4 I/c 500x450 mm pre-cast rcc horizontal grating with frame etc.complete( Dsr 2007.19.27)   | Nos  | 29.00        | 3080.24 | 89326.96          |
|  | <b>Total Cost of External Sewerage System (J)</b>   |      | <b>Total</b> |         | <b>8099640.34</b> |
|  |   |      |              |         |                   |



|  |  |     |         |          |                  |
|--|--|-----|---------|----------|------------------|
|  | <b>External Water Supply System</b>  |     |         |          |                  |
|  | P/ Laying of 3layer PP-R (Poly propylene random copolymer) pipe U V stabilized & anti-microbial fusion welded having thermal stability for hot & cold water supply I/c all PP-R plain & brass threaded polypropylene random fitting I/c trenching,refilling & testing of joints etc.complete.( DSR2007-18.6) |     |         |          |                  |
|  | External Works   |     |         |          |                  |
|  | 75 mm OD - PN -16  | m   | 1067.00 | 303.00   | 323301.00        |
|  |  |     |         |          | 0.00             |
|  | P/ Fixing of gun metal gate valve with C.I.wheel (DSR2007.18.17)   |     |         |          | 0.00             |
|  | 20 mm  | Nos | 29.00   | 391.14   | 11343.06         |
|  | P/ Fixing of brass ferrule with c.I.mouth cover I/c boring and taping the main (DSR2007.118.20)  |     |         |          | 0.00             |
|  | 25mm dia   | Nos | 29.00   | 330.87   | 9682.23          |
|  | P/Fixing of C.I. Sluice valve (with cap) complete with bolts nuts'rubber insertions etc.complete.  |     |         |          | 0.00             |
|  | 75mm dia.class-I   | Nos | 1.00    | 3381.23  | 3381.23          |
|  | Construction of brick masonry chamber 30x30x50 cm in side in 1:4 with c.I cover etc complete (DSR.2007.18.32)  |     |         |          | 0.00             |
|  | ( For gate Valve)  | Nos | 29.00   | 821.73   | 23830.17         |
|  | Construction of brick masonry chamber 60x60x75 cm in side in 1:4 with C.I cover etc complete (DSR.2007.18.33)  |     |         |          | 0.00             |
|  | ( For Sluice Valve)  | Nos | 1.00    | 4925.56  | 4925.56          |
|  |  |     | Total   |          | 376463.35        |
|  | <b>Cost of External Water Supply System (K)</b>  |     |         |          | <b>376463.35</b> |
|  |  |     |         |          |                  |
|  | <b>Under Ground and Terrace Reservoirs and Pumping System incuding laying of pipe system to connect internal network of pipeline</b>   |     |         |          |                  |
|  | Construction of RCC Under Ground Water tank  |     |         |          |                  |
|  | 2KL  | no. | 1.00    | 10000.00 | 10000.00         |
|  | 4KL  | no. | 28.00   | 20000.00 | 560000.00        |

|   |  |      |       |          |                   |
|---|--|------|-------|----------|-------------------|
|   | Pumping Plant with all accessories including installation and commissioning for pumping water to Terrace PVC tanks from underground reservoir  | no.  | 29.00 | 10000.00 | 290000.00         |
| 2 | Pipeline works from pump to individual reservoirs  |      |       |          | 0.00              |
| 3 | 40mm PVC Pipe dsr 18.9.5   | m    | 1450  | 349.69   | 507050.50         |
|   | 20mm G.I. Medium Pipe dsr 18.10.2  | m    | 580   | 183.37   | 106354.60         |
|   | PVC water storage tank on terrace with cover and suitable locking arrangement including installation and Testing (ISI Mark) DSR 18.48 cost @7.19/Lit. for 2 KL@14380 each  | 2 KL | 1     | 14380.00 | 14380.00          |
| 5 | 300 lit PVC Tank @ 7.19 per lt i.e Rs 2157.00 each 4 KL cost @28760 each   | no.  | 28    | 28760.00 | 805280.00         |
|   |  |      |       |          |                   |
|   | Providing & Fixing PTMT Ball cock of approved quality, colour and make complete with epoxy coated aluminum rod with LP/HPHD plastic ball DSR 2007 Item 18.62.5   | no.  | 29.00 | 1833.47  | 53170.63          |
|   | <b>Under Ground and Terrace Reservoirs and Pumping System incuding laying of pipe system to connect internal network of pipeline (L)</b>   |      |       |          | <b>2346250.00</b> |
|   | <b>Handpumps</b>   |      |       |          |                   |
|   | <b>India Mark II Hand Pump Estimate for One Hand Pump</b>  |      |       |          |                   |
|   | <b>A. DRILLING PORTION</b>   |      |       |          |                   |
|   | Drilling in all kinds of soil and rock in rural area for installation of India Mark III hand pump with DTH rig all complete, including supplying all materials, labours, tools, drilling rig, air compressor and equipment as well as fuel, lubricants for making 125mm/115mm dia boring and cost of transporting charges of rig machine and other vehicle up to site of the work as per specification and direction of F/I. | m    | 30    | 330      | 9990.00           |
|   | (a) Up to 30m depth  |      | 25    | 360.8    | 9020.00           |
|   | (b) Beyond 30m up to 55m   |      |       |          |                   |

|   |          |        |           |          |
|---|----------|--------|-----------|----------|
| Supplying all materials, labours, equipments for lowering 125mm dia PVC pipes as casing for protecting the sites from falling during the process of drilling all complete including carriage to work                            | m        | 12     | 5.5       | 66.00    |
| Supplying labour, cement, and Calcium Chloride or betonite solution and equipments for grouting to casing pipe after lowering in the bore etc. all complete as per specification and direction of E/I.                          | Nos.     | 1      | 51.45     | 51.45    |
| Supplying all tools,equipments and labour and doing washing, flushing and development of drilled tube well to give clean and clear water all complete as per direction of E/I   | Per Hour | 30mins | 690       | 345.00   |
| Supplying labour and equipments including 125mm dia G.I Cap and fixing and filling over the tube well properly and taking it out as per direction of E/I. (The cap will be property of contractor)                              | Nos.     | 1      | 52.8      | 52.80    |
|   |          |        | Total (A) | 19435.25 |
| B.CIVIL PORTION   |          |        |           |          |
| Supplying all tools,equipments and labour and lowering 32mm dia G.I suspension pipe in 3m length in the drilling bore of tube well etc all complete job as per direction of E/  | m        | 24     | 6.15      | 147.60   |
| Providing Labour for filling and fixing deep well cylinder jointing materials, chrome leather bucket all tools and plan etc required for the job for low water level all complete job as per specification and direction of E/I | Nos.     | 1      | 83.7      | 83.70    |
| Providing Labour for filling and fixing of India Mark II Hand Pump including supplying all tools and plants required for all complete job as per specification and direction of E/I   | Nos.     | 1      | 53.95     | 53.95    |
| Supplying all materials, labours, equipments for constructing PCC (1:2:4) circular platform around each drilled tube well including 12 mm thick cement plaster (1:4) with neat cement punning over exposed surface as per       | Nos.     | 1      | 3667      | 3667.00  |

|  |  |             |          |                 |                  |
|--|--|-------------|----------|-----------------|------------------|
|  | UNICEF design etc. all complete  |             |          |                 |                  |
|  | Supplying all materials labour and equipment for construction PCC (1:2:4) drain as per UNICEF design etc all complete  | m           | 3        | 251             | 753.00           |
|  |  |             |          | Total (B)       | 4705.25          |
|  | C.COST OF MATERIALS  |             |          |                 |                  |
|  | (a) Cost of one no of ISI marked India Mark II Handpump confirming to IS:9301/90 with amendment No 1 to 6 complete with all accessories including 8 nos. of connecting rod One no each | Nos.        | 1        | 5950            | 5950.00          |
|  | (b) Cost of 32mm dia GI pipe 3 m log screwed at both ends with seamless socket as per IS:239 (part 1990)   | m           | 24       | 182.6           | 4382.40          |
|  | Total  |             |          |                 | 10332.40         |
|  | Cost of 125mm dia (140mm O.D) Blue UPVC casing Pipe  | m           | 12       | 325             | 3900.00          |
|  |  |             |          | Total ( C)      | 14232.40         |
|  | Total (A+B+C)  |             |          |                 | 38372.90         |
|  | Cost of One India Mark II Hand Pump  |             |          |                 | 38372.90         |
|  | <b>Cost of 7 nos. India Mark II Hand Pumps as per Jharkhand PHED Norms and Specifications (M)</b>  | <b>nos.</b> | <b>7</b> | <b>38372.90</b> | <b>268610.30</b> |

| SCHEDULE OF QUOTED RATES RANCHI BSUP Project Package 1.2 |                        |                         |
|--|------------------------|-------------------------|
| Description  | TICK ONE ITEM ACCEPTED | Quoted Variation        |
| Above The Mentioned Schedule Rates                       |                        | .....%                  |
| Equal to the Above Mentioned Schedule Rates              |                        | No Any                  |
| Below the Mentioned Schedule Rates                       |                        | .....%                  |
| SIGNATURE OF OFFICIAL OPENING THE PRICE BID              |                        | SIGNATURE OF CONTRACTOR |

**“CONSTRUCTION OF DWELLING UNITS & DEVELOPMENT OF INFRASTRUCTURE”  
( Madhukam slum)**

**SUMMARY OF COSTS BASED ON QUOTED RATES RANCHI BSUP Project -Madhukam**

| Sr No                  | Particulars  | Estimated Amount Rs. | Quoted Amount Rs. |
|------------------------|--|----------------------|-------------------|
| 1                      | Total Cartage of Building Materials (A)  | 6512605.66           |                   |
| 2                      | Cost of 28 Full & 1 half G+3 Clusters (B)  | 93979118.22          |                   |
| 3                      | Cost of 29 no. G+3 Stair cases & Corridors (C)   | 17723813.37          |                   |
| 4                      | Total Cost of Community Centres (D)  | 3880305.98           |                   |
| 5                      | Total Cost of Livelihood Centers (E)   | 4044990.64           |                   |
| 6                      | Total Cost of External Drainage Works (F)  | 928656.94            |                   |
| 7                      | Total cost for Parks Development (G)   | 1278813.20           |                   |
| 8                      | Total cost for Concrete Road & BOE (H)   | 2811108.50           |                   |
| 9                      | Total Cost of Digestor & its accessories for 500 House Holds on Turn Key Basis (I)   | 1320000.00           |                   |
| 10                     | Total Cost of External Sewerage System (J)   | 8099640.34           |                   |
| 11                     | Cost of External Water Supply System (K)   | 376463.35            |                   |
| 12                     | Under Ground and Terrace Reservoirs and Pumping System including laying of pipe system to connect internal network of pipeline (L) | 2346250.00           |                   |
| 13                     | Cost of 7 nos. India Mark II Hand Pumps as per Jharkhand PHED Norms and Specifications (M)   | 268610.30            |                   |
|                        | <b>TOTAL QUOTED AMOUNT (IN FIGURES)</b>  |                      |                   |
| 14                     | Provision for External Electrification in Madhukom   | 1184788.00           |                   |
|                        | <b>GRAND TOTAL</b>   | <b>144755164.50</b>  |                   |
| RUPEES (IN WORDS)..... |  |                      |                   |

**SIGNATURE OF OFFICIAL OPENING THE  
PRICE BID**

**SIGNATURE OF CONTRACTOR**

| <b>ANNEXURE</b>  |  |            |             |               |
|--|--|------------|-------------|---------------|
| <b>Name of work : Unit Estimate for Drains Storm Water drainage Works (BSUP)</b> |  |            |             |               |
| <b>S.N</b>   | <b>Item of works</b>   | <b>Qty</b> | <b>Rate</b> | <b>Amt</b>    |
| <b>A</b>   | <b>Drain Size (150mmx200mm)</b>  |            |             |               |
|  | <b>( For length 100.00 Mts)</b>  |            |             |               |
| 1  | Earth work in excavation in foundation trenches in ordinary soil (vide classification of doil item-A) and disposal of excavated earth as obtained to a distance upto 50 M. including all lifts, levelling, ramming the foundation trench removing reets of trees, shurbs all complete as per approved design., building specification and direction of E/I (5.1.1)   | 24.375     | 43.61       | 1062.99       |
| 2  | Providing and laying in cement concrete 1:4:8 (1 cement : 4 fine Sand : 8 graded brick aggregate 40mm. Nominal Size) and curing complete, including cost of formwork in foundation and floors. (5.3.4)   | 7.50       | 2212.42     | 16593.15      |
| 3  | Providing designation 75A brick work in 1:4 cement and fine sand of 1.25 fineness modulous mortar in foundation and plinth including supply of all materials, labour and tools and plants etc. required for proper completion of the work (5.2.2)  |            |             | 0.00          |
|  |  | 10.35      | 2357.73     | 24402.51      |
| 4  | 12mm cement plaster in single coat on fair side of single or half brick wall for interior plastering upto floor two level including internal rounded angles chamfers. And/or rounded angles not exceeding 80deg. In grit and finished even and smooth. No extra for mixing any additive 1 cement : 4 fine sand (5.7.2)   | 40.00      |             | 0.00          |
|  |  | 46.00      |             | 0.00          |
|  |  | 86.00      | 69.82       | 6004.52       |
| 5  | Providing 25mm thick first class patent stone flooring (1:2:4) with stone chips in two layers, bottom layer 19mm. Thick (1:2:4) with 12mm to 6mm. Size graded stone chips and top layer 6mm thick (1:2) with 6mm down stone chips, in panels including cost of curing, finishing the surface smooth by rubbing with carborandum stone, taxes and royalty with all complete as per building specification and direction of E/I. (5.6.7) |            |             | 0.00          |
|  |  | 15.00      | 142.69      | 2140.35       |
|  |  | Total      |             | 50203.52      |
|  |  |            |             | <b>502.04</b> |

|          |  |        |         |               |
|----------|--|--------|---------|---------------|
| <b>B</b> | <b>Drain Size (230 x460mm)</b>   |        |         |               |
|          | <b>( For length 100.00 Mts)</b>  |        |         |               |
| 1        | Earth work in excavation in foundation trenches in ordinary soil (vide classification of doil item-A) and disposal of excavated earth as obtained to a distance upto 50 M. including all lifts, levelling, ramming the foundation trench removing reets of trees, shurbs all complete as per approved design., building specification and direction of E/I (5.1.1)   | 48.555 | 43.61   | 2117.48       |
| 2        | Providing and laying in cement concrete 1:4:8 (1 cement : 4 fine Sand : 8 graded brick aggregate 40mm. Nominal Size) and curing complete, including cost of formwork in foundation and floors. (5.3.4)   | 8.30   | 2212.42 | 18363.09      |
| 3        | Providing designation 75A brick work in 1:4 cement and fine sand of 1.25 fineness modulus mortar in foundation and plinth including supply of all materials, labour and tools and plants etc. required for proper completion of the work (5.2.2)   |        |         | 0.00          |
|          |  | 22.31  |         | 0.00          |
|          |  | 22.31  | 2357.73 | 52600.96      |
| 4        | 12mm cement plaster in single coat on fair side of single or half brick wall for interior plastering upto floor two level including internal rounded angles chamfers. And/or rounded angles not exceeding 80deg. In grit and finished even and smooth. No extra for mixing any additive 1 cement : 4 fine sand (5.7.2)   |        |         | 0.00          |
|          |  | 138.00 |         | 0.00          |
|          |  | 138.00 | 69.82   | 9635.16       |
| 5        | Providing 25mm thick first class patent stone flooring (1:2:4) with stone chips in two layers, bottom layer 19mm. Thick (1:2:4) with 12mm to 6mm. Size graded stone chips and top layer 6mm thick (1:2) with 6mm down stone chips, in panels including cost of curing, finishing the surface smooth by rubbing with carborandum stone, taxes and royalty with all complete as per building specification and direction of E/I. (5.6.7) |        |         | 0.00          |
|          |  | 23.00  | 142.69  | 3281.87       |
|          | Total  |        |         | 85998.56      |
|          |  |        |         | <b>859.99</b> |
| <b>C</b> | <b>Drain Size (600 x900mm)</b>   |        |         |               |
|          | <b>( For length 100.00 Mts)</b>  |        |         |               |

|   |  |        |         |                |
|---|--|--------|---------|----------------|
| 1 | Earth work in excavation in foundation trenches in ordinary soil (vide classification of doil item-A) and disposal of excavated earth as obtained to a distance upto 50 M. including all lifts, levelling, ramming the foundation trench removing reets of trees, shurbs all complete as per approved design., building specification and direction of E/I (5.1.1)   | 123    | 43.61   | 5364.03        |
| 2 | Providing and laying in cement concrete 1:4:8 (1 cement : 4 fine Sand : 8 graded brick aggregate 40mm. Nominal Size) and curing complete, including cost of formwork in foundation and floors. (5.3.4)   | 12.00  | 2212.42 | 26549.04       |
| 3 | Providing designation 75A brick work in 1:4 cement and fine sand of 1.25 fineness modulous mortar in foundation and plinth including supply of all materials, labour and tools and plants etc. required for proper completion of the work (5.2.2)  |        |         | 0.00           |
|   |  | 42.55  |         | 0.00           |
|   |  | 42.55  | 2357.73 | 100321.41      |
| 4 | 12mm cement plaster in single coat on fair side of single or half brick wall for interior plastering upto floor two level including internal rounded angles chamfers. And/or rounded angles not exceeding 80deg. In grit and finished even and smooth. No extra for mixing any additive 1 cement : 4 fine sand (5.7.2)   | 46.00  |         | 0.00           |
|   |  | 180.00 |         | 0.00           |
|   |  | 226.00 | 69.82   | 15779.32       |
| 5 | Providing 25mm thick first class patent stone flooring (1:2:4) with stone chips in two layers, bottom layer 19mm. Thick (1:2:4) with 12mm to 6mm. Size graded stone chips and top layer 6mm thick (1:2) with 6mm down stone chips, in panels including cost of curing, finishing the surface smooth by rubbing with carborandum stone, taxes and royalty with all complete as per building specification and direction of E/I. (5.6.7) |        |         | 0.00           |
|   |  | 60.00  | 142.69  | 8561.40        |
|   |  | Total  |         | 156575.20      |
|   |  |        |         | <b>1565.75</b> |