



**NATIONAL INSTITUTE OF TECHNOLOGY
ROURKELA-769008**

**TENDER NOTICE FOR RATE CONTRACT FOR CIVIL
MAINTENANCE WORK**

No. NITR/PW/Tender/11-12/08

Date: 05.08.11

Sealed quotations are invited from registered Civil Contractors of NIT Rourkela of 'B','C'&'D' category and agencies registered under CPWD,OPWD,RSP(SAIL) and any other PSU or Govt. organization to provide Annual Maintenance work (Civil) for staff Quarters and Academic buildings,Halls of residence and other facilities of NIT Rourkela. Detailed terms and conditions are available in our website at <http://www.nitrkl.ac.in>. The last date of receipt of quotations is dt. 29.08.2011 by 12.00 Noon.

Ph.No. 0661-2462071

Fax No.0661-2462022

**sd/-
REGISTRAR**



NATIONAL INSTITUTE OF TECHNOLOGY
ROURKELA-769008

No: NITR/ET/CM/AEE©/2011/F/529

Date: 22/07/2011

TENDER NOTICE

Sealed Tender are invited from registered civil contractors of NIT, Rourkela of 'B', 'C' & 'D' category and agencies registered under CPWD, OPWD, RSP (SAIL) and any other PSU or Govt. Organization for the above work to be executed in NIT campus, Rourkela.

Name of Work: Annual Maintenance contract (Civil) for Staff Quarters and Academic buildings and Hall s of residences and other facilities of NIT Rourkela

Estimated Cost : Rs. 25 Lakhs (Approx)

EMD/SD : Rs 25,000.00

Eligibility Criteria : The Tenderer must possess the following: The attested copies of all documents are to be sent along with the Tender.

- (a) Valid Class of contractor registration certificate from appropriate authority
- (b) Valid Value added tax clearance from local sales tax authority in form No-612
- (c) Permanent account number (PAN) issued by income tax dept.

NO of Contractor to be awarded with this work : Maximum 20 Nos

EMD shall be in the form of Bank drafts to be made separately from Nationalized Banks in Favor of NIT, Rourkela, except C-operative and Grameen Bank.

The firms should have executed similar types of at least one job of Rs. 4.00 Lakhs or two jobs of Rs 2.50 Lakhs each during last three years.

The bid must be submitted in three parts (1st part : Techno Commercial Bid, 2nd Part: EMD, 3rd Part : Price Bid) in separate sealed covers, super scribing on the top of the envelopes addressed to the Registrar, NIT Rourkela-769008:

RATE CONTRAT FOR CIVIL MAINTENANCE WORKS
DUE ON 29/08/2011, 12.00 Noon
Open On 29/08/2011, 3.30 PM for Part 1 & 2

Necessary Tender documents along with Terms and Conditions can be downloaded from NIT website <http://www.nitrkl.ac.in> during office Working Hours latest by 29/08/2011.

The bid must be accompanied with EMD without which the bid will be summarily rejected. The work may be awarded more than one firm for all items on Overall L1 Basis. NIT reserves the right to reject any or all tenders without assigning any reason.

Sd/-
(Sri S.P.Mohapatra)
Assistant Executive Engineer
N.I.T, Rourkela.



NATIONAL INSTITUTE OF TECHNOLOGY,
ROURKELA-769008

TENDER NOTICE NO :NITR/ET/CM/AEE©/2011/F/529

DATE- 22/07/2011

To
M/s

Sub : Annual Maintenance contract (Civil) for Staff Quarters and Academic buildings and Hall s of residences and other facilities of NIT Rourkela

Dear Sir,

We are pleased to invite your offer in sealed covers for the work mentioned above. The offer shall be as per terms and conditions mentioned in the Tender document enclosed here with.

- 1 (a) All the original tender documents should be signed and stamped by the authorized signatory as a token of acceptance of all the term and conditions mentioned there in.
- (b) The EMD/security amount i-e Rs 25000.00 will be deposited along with the tender documents which was retained with N.I.T Rourkela till the maintenance period is over i.e. 6 months from the date of completion of the job. Unsuccessful tenderers will get back their EMD/SD after official procedure.
- (c) The guarantee and maintenance period shall be 6 (six)-calendar months from the date of completion.
- (d) All necessary material required for this job will be arranged by the tenderer in good quality and as per specification and direction of Engineer-in-charge.
- (e) Tools Tackles, equipment & labour etc shall be arranged by you. Your price is deemed to include cost of all the above.
- (f) Your rates shall be inclusive of taxes and duties including sales tax etc as applicable.
- (g) Water and Electricity required for the job will be provided by N.I.T, Rourkela.
- (h) During execution of work, safety measures to be followed strictly by the Agency.

- (i) Any safety hazard occurred during the execution of the job will be the responsibility of the Agency.
 - (j) The tender shall submit the enquiry, duly filled in by 12.00 noon on 29.08.11 in the office of the undersigned.
 - (k) The subject enquiry will be opened on 29.08.11 at 03.30 P.M PM in the office of the undersigned. You are requested to attend the same.
 - (l) The rates for the works will remain firm and no escalation admissible.
 - (m) The Contract shall remain in operation up to _____ from the date of issue of Work order. However, NIT reserves the right to extend if further required.
 - (n) General condition, Special terms conditions, specifications, drawings, related to the job are available in the office of undersigned. The tenderer should go through the same before quoting their rates.
 - (o) Tenderers are advised to inspect & examine the site and its surrounding and satisfying themselves before submitting tender.
 - (p) The above work may be divided among the tenderers who agrees to match their prices with L-1 Rate for early completion of the job.
2. EXTRA ITEM :- Any extra work executed during the period of execution if not covered in the work-order, schedule, shall be settled mutually on prevailing rate.
 3. PAYMENT TERM :- Running payment shall be released on the basis of work executed and final measurements duly checked and passed by the concerned NIT representative after the job is over.
 4. The tenderer shall submit an undertaking in the prescribed format (enclosed) that he has gone through the general condition of contract and special condition for civil engineering works of NIT, Rourkela and accordingly has quoted the price.

Yours faithfully,

Sd/-

(Sri S.P.Mohapatra)
Assistant Executive Engineer
N.I.T, Rourkela

UNDERTAKING

I/We hereby undertake that I/we have gone through the General Condition of Contract and special condition for Civil Engineering Works of NIT, Rourkela and accordingly, have quoted the price.

(Signature of Agency)

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I/We hereby undertake that I/we have gone through the General Condition of Contract and special condition for Civil Engineering Works of NIT, Rourkela and accordingly, have quoted the price.

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(Signature of Agency)

FORM-A/

CHECK LIST FOR PRE-QUALIFICATION

Forms to be filled in properly.

1. Form-A: This form (check list)
2. Form-B: Letter of Transmittal
3. Form-C
4. Form-D
5. Form-E
 - a. Photocopy of documents to be attached.
 1. Valid license
 2. Work orders of last 3 years.
 3. Vat Clearance Certificate, PAN Card
 - b. Performance report from the client(S)

The firm/ Contractor is required to apply for performance certificate (at least for three works).

Please state the details below

<u>Sl.No.</u>	<u>Name of work</u>	<u>Client</u>
1.		
2.		
3.		
4.		
5.		

Note: The performance report is to be submitted along with the pre-qualification documents in sealed covers.

(Signature of the Agency)

FORM-B/

**PRE-QUALIFICATION INFORMATION
LETTER OF TRANSMITTAL**

(To be typed on the Agency's Letterhead)

To

The REGISTRAR
National Institute of Technology,
Rourkela-769008.

Sir,

Having examined the details of pre-qualification document, I hereby submit the pre-qualification documents and other relevant information.

1. I hereby certify that all the statements made and information supplied in the enclosed forms A to E and accompanying statements are true and correct to the best of my knowledge. I understand that if any information found incorrect, the application is liable to be cancelled.
2. I have furnished all information and details necessary for pre-qualification and have no further pertinent information to supply.
3. I certify that my firm is not **blacklisted/banned** from business by any organization.
4. I hereby accept the rules and procedures of the institute for pre-qualification of contractors and agree that the Institute has the right to accept or reject any application without assigning a reason thereto.

(Signature of the Agency)

FORM-C/

NATIONAL INSTITUTE OF TECHNOLOGY, ROURKELA

APPLICATION FOR PRE-QUALIFICATION

1. NAME OF AGENCY/FIRM:- _____
2. ADDRESS:- _____
3. FAX/TELEPHONE NUMBER:- _____
4. SPECIAL QUALIFICATION OF TECHNICAL PERSON:- _____
5. LIST OF EQUIPEMENT / MACHINERY IN POSSESSION
FOR ROAD WORK :- _____
6. DETAILS OF REGISTRATION WITH
OTHER GOVT/PSU ORGANISATION:- _____
 - NAME OF THE DEPARTMENT/ORGANISATION _____
 - CLASS OR CATEGORY _____
 - ENLISTMENT AUTHORITY _____
 - DATE OF VALIDITY _____

1. VOLUME OF BUSINESS IN LAST THREE FINANCIAL YEARS
2002-03 Rs _____
2003-04 Rs _____
2004-05 Rs _____

2. Important jobs executed in Govt./psu including specifications, materials used, quality adherence, methods of testing including test/inspection certificates.
3. Valid Income Tax clearance certificate (ITCC).
10. Any other information regarding technical capability and financial soundness.

(Signature of the Agency)

CONFIDENTIAL

CLIENT'S CERTIFICATE REG. PERFORMANCE OF CONTRACTOR

(To be submitted in a sealed covered along with the pre-qualification documents)

Letter No.-----

Date:

Name and address of the Client:-----

Details of works executed by the Contractor:

1	Name of work with brief particulars	
2	Agreement No and date	
3	Date of commencement of work	
4	Stipulated date of completion	
5	Actual date of completion	
6	Details of compensation levied for delay, if any	
7	Tendered amount	
8	Gross Amount of the work completed	
9	Name & address of the authority under whom works executed	
10	Whether the contractor employed qualified Engineer/Technical person during execution of work?	
11	i) Did the contractor go for arbitration? ii) If yes, total amount of claim. iii) Total amount awarded.	
12	Comments on the Capabilities of the contractor (indicate grading) please tick () a) Quality of work b) Technical Proficiency c) Financial Soundness d) Mobilization of adequate T & P e) Mobilization of manpower f) General behavior	Out standing/v.Good/Good/Poor Out standing/v.Good/Good/Poor Out standing/v.Good/Good/Poor Out standing/v.Good/Good/Poor Out standing/v.Good/Good/Poor Out standing/v.Good/Good/Poor

*Note: All Columns should be filled in properly.

“COUNTERSIGNED”
Officer of the rank of Executive Engineer
or equivalent and above

Signature of the Reporting
Officer with seal

N.B. The Executive Engineer or equivalent officer is requested to hand over the performance certificate of the Contractor only in sealed covers to the concerned contractor.

CERTIFICATION BY THE TENDERER

Name of Work: Annual Maintenance contract (Civil) for Staff Quarters and Academic buildings and Hall s of residences and other facilities of NIT Rourkela

TENDER NOTICE NO: NITR/ET/CM/AEE©/2011/F/

I/We hereby certify the following:

1. I/We shall undergone through the Notice inviting tender , General and special conditions of contract of NIT Rourkela, Specifications, safety code, schedule of rates of NIT Rourkela, Material specifications for this tender etc. issued to me/us along with the tender set. I/We have also understood the specifications in details for the items of this work. I/We completely understood the entire tender conditions and their implications basing on which I/ we have quoted in the price bid (part C of the tender set).
2. I/We have submitted demand draft/pay order/bankers Cheque/Cash receipt for required amount payable to NIT Rourkela, towards earnest money deposit for this tender.
3. I/ We have filled up tenders and submitted in three parts Part –“A” containing earnest money deposit. Part- “B” (Techno commercial bid with eligible attested copies of required documents and part- ‘C” (Price bid) in separate sealed covers as detailed in Notice Inviting Tender .
4. I/We have signed all the pages of tender set with seal in the appropriate places.
5. I/We shall justify our rates (if so required by authority of NIT Rourkela) quoted by me /us in the price bid (Part-‘C”). There are no other conditions given for these rates other than tender conditions. These rates shall remain valid at east for a period of 3 (Three) months from the date of Opening of the price bids.
6. I/We shall be present during opening of the Techno commercial bid or send any of our authorized representatives with authorization letter for the purpose, failing which any decision taken up by authority of NIT Rourkela in this regard shall be acceptable and binding to me/us.
7. I/We shall have no objection if he distribution of order will be in the descending order as per the quoted price ranking of the tenderers i-e L1 tenderer will highest share and last ranked tenderers (Within which the orders is to be distributed) will get smallest share.

Signature and seal of the Tenderer

Name of the firm:

Address

NIT registration No:

Date of Validity

ABSTRACT

To be filled by the agency

Name of Work: Annual Maintenance contract (Civil) for Staff Quarters and Academic buildings and Hall s of residences and other facilities of NIT Rourkela

- TENDER NOTICE NO: NITR/ET/CM/AEE©/2011/F/ Date:

- Name of Agency

- Address

- Name of the Bank, Branch and A/C No:

- Permanent Account Number

- VAT/TIN

- Service ax registration No and Category:

- Contact Telephone/ Mobile No:

Signature and seal of the Tenderer

Name of the firm:

Address

NIT registration No:

Date of Validity

GENERAL CONDITIONS
OF
CONTRACT

NATIONAL INSTITUTE OF TECHNOLOGY
ROURKELA

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CONDITIONS OF CONTRACT

Part-1, General Conditions

DEFINITIONS & INTERPRETATION

1.1 Definitions

In the contract (as hereinafter defined) the following words and expression shall have the meanings hereby assigned to them except where the context otherwise requires:-

- a] “Employer” means the NIT, Rourkela.
- b] “Contractor” means the person or persons, firm or company, whose tender has been accepted by the Employer and includes the Contractors personal representatives, successors and permitted assignees.
- c] “Engineer-in-charge” means representative of NIT, Rourkela and notified in writing to the contractor to act as Engineer for the purpose of the contract.
- d] “Engineers representative” means any resident engineer or assistant of the Engineer or any clerk of works or any other employee or agent appointed from time to time by the Employer.
- e] “Work” shall mean and include all work specified or set forth and required in and by the specifications drawing and schedule here to be annexed or to be implied there from or incidental thereto or to be hereafter specified or required in such explanatory instructions and drawings.
- f] “Contract” means the Invitation to Tender, Instructions to Tenders, General Conditions of Contract, Special conditions of Contract, Specifications, Drawings, Tender Schedule showing approximate quantities, quoted rates and amount against each item, Time Schedule, Letter of intent, Tender and the Contract agreement.
- g] “Contract” Price” means the sum named in the tender subject to such additions thereto or deductions there from as may be made under the provisions of the Contract.
- h] “Constructional Plant” means all appliances or things of whatsoever, nature required in or about the execution, completion or maintenance of the Works or Temporary Works.
- i] “Temporary Works” means all temporary works of every kind required in or about the execution, completion or maintenance of the work.
- j] “Drawing” means the drawings referred to in the Specification and any modification of such drawings approved in writing by the Engineer and such other drawings as may from time to time be furnished or approved in writing by the Engineer.
- k] “Site” means the lands and other places envisaged by the Employer where the work are to be executed or carried out.
- l] “Letter of Intent” is an intimation by a letter to tenderer that tender has been accepted in accordance with the provision contained in that letter.
- m] “Approved” means approved in writing including subsequent written confirmation of previous verbal approval.

1.2 Terms “Specifications”

The term ‘Specification’ shall mean schedules, detailed designs, statements of technical data, performance characteristics and all such particulars mentioned as such in the contract. In the absence of any specific specifications issued by the Employer, the specifications issued by the B.I.S will apply.

2.0 Engineer’s Representative

The duties of the Engineer’s representative are to watch and supervise the works and to test and examine any materials to be used or workmanship employed in connection with the works. He shall have no authority to relieve the Contractor of any of his duties or obligations under the Contract nor except as expressly provided hereunder or elsewhere in the Contract to order any work involving delay or any extra payment by the Employer nor to make any variation of or in the Works. The Engineer may from time to time in writing delegate to the Engineer’s representatives any of the powers and authorities vested in the Engineer.

3.0 Assignment and Sub-Letting

The Contractor shall not assign the Contract or any part thereof or any benefit or interest therein or there under without the prior written consent of the Employer.

The Contractor shall not sublet the whole or a part of the work without prior written consent of the Employer and Sub-Contractor or Sub-Contractors are approved in writing by the Employer. Subletting shall not relieve the Contractor from any liability or obligation under the contract, and he shall be responsible for the acts, defaults and neglects of any Sub-Contractor, his agents, servants or workmen as fully as if they were the acts, defaults or neglects of the Contractor, his agents, servants or workmen. Subletting beyond the first stage shall not be permitted.

4.0 Extent of Contract

The Contract comprises of the construction, completion and maintenance of the works & except in so far as the contract otherwise provides the provision of all labour, materials, Constructional Plant, temporary works and everything whether of a temporary or permanent nature, required for such construction, completion and maintenance.

5.0 Contract Documents

The drawings shall remain in the sole custody of the Engineer but two copies thereof shall be furnished to the Contractor free of cost.

One copy of the drawings furnished to the Contractor as aforesaid shall be kept by the Contractor on the site and the same shall at the reasonable times be available for inspection and use by the Engineer and Engineers representative and by any other person authorized by the Engineer.

6.0 General Obligations

6.01 *Contract Agreement* : The Contractor shall enter into and execute a contract agreement in the form annexed hereto within the time specified in letter of intent and in default thereof the earnest money paid by the Contractor shall be forfeited and acceptance of his tender shall be considered as withdrawn. The cost of the stamp fee of the agreement is to be borne and paid by the contractor.

6.02 *Security Deposit* : The Contractor shall within the time specified in the letter of intent/work order deposit with the NIT Rourkela, further sum in addition to the earnest money paid with the tender to work upto a rate 2.5% of the value of the contract at the accepted rates as security deposit in cash or in the form of demand draft from a Recognised Bank in favour of NIT, Rourkela.

In the event of this not being furnished within the period specified in the letter of intent/work order the earnest money shall stand forfeited and acceptance of the Contractor's tender shall stand withdrawn.

To this sum shall be added the deduction from the contractor's interim bills for work done, so as to make a total security of 10% of the value of the contract as aforesaid.

The security deposit shall remain at the entire disposal of the Employer as a security for the satisfactory execution and completion of the works in accordance with the conditions of the contract.

“When the Security Deposit exceeds Rs.1.00 lakh (Rupees one lakh only), the Contractor, if he so desires, may convert the amount in excess of Rs.1.00 lakh into a Bank Guarantee Bond of one of the Scheduled or Nationalized Banks.

On due satisfactory performance and completion of the contract in all respects, the security deposit will be returned to the Contractor without any interest on presentation of an absolute no demand certificate from the Engineer in the prescribed form after completion of maintenance period.

6.03 *Work to the satisfaction of Engineer* : The Contractor shall execute, complete and maintain the works in strict accordance with the Contract to the satisfaction of the Engineer and shall comply with and adhere strictly to the Engineer's instructions and directions on any matter. The Contractor shall take instruction and directions only from the Engineer/Engineer's representative.

6.04 *Programme to be furnished* : As soon as practicable after the acceptance of his tender, the Contractor shall, if required submit the Engineer for his approval a programme showing the order of procedure and method in which he proposes to carry out the works.

6.05 *Contractors Superintendence* : The Contractor shall give or provide all necessary superintendence during execution of the works. The Contractor or his competent and authorized agent is to be constantly on the works and shall give his whole time to the superintendence of the same.

- 6.06 *Contractors Employees* : The Contractor shall provide and employ on the site in connection with the execution and maintenance of the Works:
- (a) Technical assistants and other staff, skilled and experienced in their respective Area who are competent to give proper supervision to the work.
 - (b) Skilled, semi-skilled and unskilled labour as is necessary for the proper and timely execution and maintenance of the works.
- 6.07 *Setting-out of the Works* : The Contractor shall be responsible for the true and proper setting out of the works and for the correctness of the positions, levels, dimensions and alignment of all parts of the works and for the provision of all necessary instruments, appliance and labour in connection therewith. The checking of any setting out or of any line or level by the Engineer or the Engineer's representative shall not in any way relieve the Contractor of his responsibility for the correctness thereof.
- 6.08 *Use of the Explosives* : Explosive shall not be used on the works by the contractor without the permission in writing of the Engineer.
- 6.09 *Watching & Lighting* : The Contractor shall in connection with the works provide and maintain at his own cost all light, guards, fencing and watching when and where necessary or required by the engineer/engineer's representative.
- 6.10 *Care of Works* : From the commencement to the completion of the works, the Contractor shall take full responsibility or the care thereof & of all the temporary works and in case any damage, loss or injury shall happen to the works or to any part thereof or to any temporary works form any cause whatsoever.
- 6.11 *Accident or injury to Workman* : The Employer shall not be liable for or in respect of any damages or compensation payable by Law in respect or in consequence of any accident or injury to any workman or other person in the employment of the Contractor or any sub-contractor save and except an accident or injury resulting from any act or default or the Employer.
- 6.12 *Workman's Compensation* : The Contractor shall at all times indemnify the Employer against all claims for compensation under the provision of the Workman's Compensation Act. or any other Law for the time being in force by or in respect of any workman employed by the Contractor in carrying out the contract.
- 6.13 *Giving of Notice and Payment of fees* : The Contractor shall give all notices and pay all fees required to be given or paid under any Central or State Statute, Ordinance or other Law.
- 6.14 *Compliance With Statutes, Regulation etc* : The Contractor shall conform in all respects with the provision of any such Statute, Ordinance or Law as aforesaid and the rules, Regulations or Bye-Laws of any local or other duly constituted authority which may be applicable to the Works.
- 6.15 *Opportunities for other Contractors* : The Contractor shall in accordance with the requirement of the Engineer afford all reasonable opportunities for carrying out their work to any other contractors employed by the Employer and their workmen and to the workmen of the Employer & of any other duly constituted authorities who may be employed in the execution on or near the site of any work not included in the Contract.

- 6.16 *Supply of Plant, Materials and Labour* : Except where otherwise specified the Contractor shall at his own expense supply and provide all the Constructional Plant, materials both for temporary and for permanent works, and labour required for the constructions completion and maintenance of the works.
- 6.17 *Site Clearance on Completion of Work* : On the completion of the work all rubbish, debris, kilns, vats tanks, materials and temporary structures of any sort or kind used for the purpose or connected with its construction are to be removed by the contractor and all pits and excavations filled up and the site handed over in a tidy and workmanlike condition.

7.0 Labour

In respect of all labour directly or indirectly employed on the works, the Contractor shall comply with all rules framed from time to time by Government (Central or State) or other local authority and legislations governing labour for the protection or health, sanitary arrangements, wages, welfare and safety of workers.

8.0 Work Materials and Plant

- 8.01 (a) All materials and workmanship shall be of the respective kinds described in the Contract and in accordance with the Engineer's instructions and shall be subjected from time to time to such tests as the Engineer may direct at the place of manufacture or fabrication or on the site. The Contractor shall provide such assistance, instruments, machines, (labour and materials as are normally required for examining, measuring and testing any work and the quality).
- (b) All sample shall be supplied by the Contractor at his own cost.
- (c) The cost of making any test in performance of his works, shall be borne by the Contractor.
- 8.02 *Access to Site* : The Employer and / or the Engineer and any person authorized by him shall at all times have access to the works and to the site.
- 8.03 *Removal of improper Work and Materials* : The Engineer shall during the progress of the works have power to order in writing from time to time.
- (a) The removal from the site of any materials which in the opinion of the Engineer are not in accordance with the Contract.
- (b) The substitution of proper and suitable materials.
- (c) The removal and proper re-execution of any work which in respect of materials or workmanship, is not in the opinion of the Engineer in accordance with the contract.

9.0 Commencement Time & Delays

- 9.01 *Commencement of Works* : The Contractor shall commence the works on site within the period indicated in the Contract and shall proceed with the same with due expedition and without delay except as may be ordered by the Engineer.
- 9.02 *Time for Completion* : The whole of the works shall be completed within the time stated in the contract.

- 9.03 *Extension of time for Completion* : Should the amount of extra or additional work of any kind or other special circumstances of any kind whatsoever which may occur be such as fairly to entitle the Contractor to extension of time for the completion of the work the Engineer shall determine the amount of such extension.
- 9.04 *Rate of Progress* : The whole of the materials, plant and labour to be provided by the Contractor & the mode, manner and speed of execution and maintenance of the works are to be a kind and conducted in a manner to the satisfaction of the Engineer. Should the rate of progress of the work or any part thereof be at any time in the opinion of the Engineer too slow to ensure the completion of the works by the prescribed time or extended time for completion, the Engineer shall so notify the Contractor in writing and the Contractor shall thereupon take such steps as the Contractor may think necessary and the Engineer may approve to expedite progress so as to complete the works by the prescribed time or extended time for completion. If the work is not being carried on by day and by night and the Contractor shall request permission to work by night as well as by day.
- 9.05 *Liquidated Damages to Delay* : In case the Contractor fails to complete the work within the stipulated time period indicated in the contract, unless such failure is due to force majeure or due to the Employer's default, the contractor shall pay to the Employer by way of compensation for delay and not as penalty, a sum up to maximum 10% of the contract value. This is agreed that this is a pre-estimate of the loss/damage which will be suffered on account of delay/breach on the part of the contractor and the said amount will be payable on demand without there being any proof of the actual loss or damages caused by such delay/breach. The decisions of the Engineer/Site-in-charge in regard to the actual delay will be final and binding on the contractor.
- 9.06 *Certificate of Completion of Works* : As soon as, in the opinion of the engineer, the works shall have been substantially completed & shall have satisfactorily passed any final test that may be prescribed by the contract, Maintenance of the works shall commence from a mutually agreed date. The "Certificate of Completion" will be issued only after the work is completed in all respects.

Final payment for work shall be made only on the personal certificate of the officer-in-charge of execution of the work in the format given below :

" I, Executing Officer of (Name of the Work), am personally satisfied that the work has been executed as per the specifications laid down in the Contract Agreement and the workmanship is upto the standards followed in the Industry".

- 9.07 *Definition of Period of Maintenance* : In these conditions the expression "Period of Maintenance" shall be either twelve months or any other period if specifically specified in the special conditions of this contract, and calculated from the date of initiation of maintenance as per clause 9.06 above.
- 9.08 *Execution of Works of repair etc.* : To the intent that the works shall at or as soon as practicable after the expiration of the period of maintenance be delivered up to the NIT in as good & perfect a condition to the satisfaction of the Engineer as that in which they were at the commencement of the period of maintenance the Contractor shall execute all such work of repair, amendment, reconstruction, rectification and making good of defects imperfection, or other faults as may be required of the contractor in writing by the Engineer during the period of maintenance.

9.09 *Cost of Execution of Works of Repair etc.* : All such work shall be carried out by the contractor at his own expense if the necessity thereof shall in the opinion of the Engineer be due to the use of materials or workmanship not in accordance with the contract or to neglect or failure on the part of the contractor to comply with any obligation expressed or implied on contractor's part under the contract.

10.0 Alternations, Additions & Omissions

10.01 *Variations* : The Engineer shall make any variation of the form or quantity of the works or any part thereof that may in his opinion be necessary and for that purpose or if for any other reason it shall in his opinion be desirable shall have power to order the contractor to do and the contractor shall do any of the following :

- a) Increase or decrease the quantity of any work included in the contract.
- b) Omit any such work.
- c) Change the character or kind of any such work.
- d) Execute additional work of any kind necessary for the completion of the work.

10.02 *Valuation of Variation* : The Engineer shall determine the amount (if any) to be added or to be deducted from the sum named in the tender in respect of any extra or additional work done or work omitted by his order. All such work shall be valued at the rates set out in the Contract if in the opinion of the Engineer the same shall be applicable.

10.03 *Claims* : The Contractor shall send to the Engineer's representative once in every month an account giving particulars as full and detailed as possible of all claims for any additional expense to which the Contractor may consider himself entitled and of all extra or additional work ordered by the Engineer which he has executed during the preceding month and no claim for payment for any such work will be considered which has not been included in such particulars.

10.04 *Materials Obtained from Dismantlement and Excavation etc* :

- (1) The Contractors in the course of their works, should understand that all material obtained in the work of dismantling, excavation etc. will be considered Employer's property.
- (2) All gold, silver, oil and other minerals of any description and precious stones, coins, treasures, etc. which shall be found in or upon the site shall be the property of the employer, and the Contractor shall duly preserve the same to the satisfaction of Employer and shall from time to time, deliver the same to such person or persons as the Employer may appoint to receive the same.

11.0 Measurement

11.01 *Quantities* : The quantities set out in the tender Schedule are the estimated quantities of the work but they are not to be taken as the actual and correct quantities of the works to be executed by the Contractor in fulfillment of his obligations under the Contract.

11.02 *Works to be Measured* : The Engineer shall except as otherwise stated ascertain and determine by taking measurement of the work done in accordance with the Contract. He shall when he requires any part or part of the works to be measured give notice to the Contractor's authorized representative should forthwith attend or send a qualified agent to assist the Engineer or his

representative in making such measurement and shall furnish all particulars required by them. The Contractor shall be paid for the quantities resulting from measurement of the executed work.

12.0 Provisional Payment

a) No payment's shall ordinarily be made for works estimated to cost less than rupees ten thousand till after the whole of the works shall have been completed but if any payment during the course of the execution of works is considered desirable in the interest of works, the Contractor may be paid at the direction of Engineer. But in the case of works estimated to cost more than rupees ten thousand, mostly payments for the portion of work already done, may be made either on the basis, of measurements to be recorded by the Engineer or the Contractor shall on submitting the bill therefore be entitled to receive a monthly payment proportionate to the part there of then approved and passed by the Engineer, whose passing of the sum to be payable shall be final and conclusive against the Contractor. But all such intermediate payments shall be regarded as payments by way of advance against the final payment only.

(b) A bill shall be submitted by the Contractor each month on or before the date fixed by the Engineer for all work, executed in the previous month and the Engineer shall take or cause to be taken the requisite measurement for the purpose of having the same verified and the claim, as far as admissible, adjusted, if possible, before the expiry of ten days from the presentation of the bill. If the Contractor does not submit the bill within the time fixed as aforesaid the engineer may depute his representative to measure up the said work in the presence of the Contractor, whose countersignature to the measurement list will be sufficient warrant and the Engineer may prepare a bill from such list which shall be binding on the Contractor in all respects.

(c) As and by way of additional security from every progressive on account bill of the Contractor, 7.5 percent of the value of the work executed, shall be deducted and kept as security deposit until the total of the amount so deducted plus the security (including the earnest money) already deposited will equal the prescribed security, which is 10 % of the value of the works.

(d) The Employer shall not be liable for any loss of securities of any description, nor for any depreciation in the value of securities while in its charge nor for any loss of interest thereon.

The Employer shall not be liable to the Contractor for any matter or thing arising out of or in connection with the contract or the execution of the works unless the contractor shall have made a claim in writing in respect there of before the giving of the Maintenance Certificate under this clause.

13.0 Remedies and Powers

13.01 *Forfeiture* : If the Contractor shall become bankrupt or have an order for appointment of any receiver made against him or shall present any petition in bankruptcy or shall make an arrangement with or assignment in favour of his creditors or shall agree to carry out the Contract under a committee of inspection of his creditors or if the Contractor shall assign the Contract within the consent in writing of the Employer first obtained or shall have an execution levied on his goods or if the Engineer shall certify in writing to the Employer that in his option the Contractor :-

(a) has abandoned the Contract, or

(b) without reasonable excuse has failed to commence the works or has suspended the

progress of the works for 28 days after receiving from the Engineer written notice to proceed, or

- (c) has failed to remove materials from the Site or to pull down and replace work for 28 days after receiving from the Engineer written notice that the said materials or work had been condemned and rejected by the Engineer under these conditions, or
- (d) is not executing the works in accordance with Contract or is persistently or flagrantly neglecting to carry out his obligations under the Contract, or
- (e) has to the detriment of good workmanship or in defiance of the Engineer's instructions to the contrary sub-let any part of the contract, or
- (f) otherwise failed to perform his part of the contract according to the true intent & meaning thereof then the Employer may after giving 14 day's notice in writing to the Contractor, enter upon the site and the works and expel the Contractor there from without thereby avoiding the contract or releasing the Contractor from any of his obligations or liberties under the Contractor or effecting the rights & powers conferred on the Employer or the Engineer by the Contract or otherwise available under the law and may himself complete the works or may employ any other Contractor to complete the works.

13.02 *Valuation at Date of Forfeiture* : The Engineer shall as soon as may be practicable after any such entry and expulsion by the Employer fix and determine ex-parte or by or after reference to the parties or after such investigation or enquiries as he may think fit to make or institute and shall certify what amount (if any) had at the time of such entry and expulsion been reasonable earned by or would reasonable accrue to the Contractor in respect of work then actually done by him under the Contract.

13.03 *Payment after Forfeiture* : If the Employer shall enter and expel the Contractor under this clause he shall not be liable to pay to the Contractor any money on account of the Contract until the expiration of the Period of Maintenance and there after until the costs of completion and maintenance damages for delay in completion (if any) and all other expenses incurred by the Employer have been ascertained and the amount thereof certified by the Engineer. The Contractor shall then be entitled to receive only such sum or sums (if any), as the Engineer may certify would have been due to him upon due completion by him after deducting the said amount.

13.04 *Illegal Gratification and breach the terms of Contract* : The Contract may also be rescinded and the Contractor shall be liable to make good any loss or damage resulting from such cancellation.

(a) If any bribe, gratuity, gift, loan, perquisite, reward or advantage, pecuniary or otherwise, shall either directly or indirectly be given, promised or offered by the contractor, any of his servants or agents to any public office or person in the employment of the Employer in any way relating to his office or employment or if any such officer or person shall become in any way directly or indirectly interested in the contract, or

(b) If the Contractor has committed a breach of any of the terms of the contract and in particular fair wages clause and labour regulations.

13.05 *Urgent Repairs* : If by reason of any accident or failure or other event accruing to or in connection with the works or any part thereof either during the execution of the works or during

the period of Maintenances, any remedial or other work or repair shall in the opinion of the Engineer or the Engineer's representative be urgently necessary for security and the Contractor is unable or unwilling at once to do such work or repair the Employer may be his own or other workmen do such work or repair as the Engineer or the Engineer's representative may consider necessary. If the work or repair so done by

the Employer is work which in the opinion of the Engineer, the Contractor was liable to do at his own expense under the Contract, all the cost and charges properly incurred by the Employer in so doing shall on demand be paid by the Contractor to the Employer or may be deducted by the Employer from any money due or which may become due to the Contractor provided always that the Engineer or the Engineer's representative (as the case may be) shall as soon after the occurrence of any such emergency as may be reasonable practicable notify the Contractor thereof in writing.

10.06 *Employer Will have full Liberty to retain and set off sums due or to Become due to Contractor :* The Employer will have full liberty to retain and set off all sums due or to become due to the Contractor (including Security Deposits and Earnest money) whether under this contract or under any other transaction or claim whatsoever, against any sum due or to the Employer under this contract or under any other transaction or claim whatsoever.

14.0 Notice

14.01 *Service of Notice on Contractor :* Any notice to be give to the Contractor under the terms of the Contract shall be served by sending the same by post to or leaving the same at the Contractor's principal place of business.

14.02 *Service of Notice on Employer :* Any notice to be given to the Employer under the terms of the contract shall be served by sending the same by post to or leaving the same at the Employer's last known address.

14.03 *Importance of Special Conditions :* The Special Conditions attached hereto where they differ from the General Condition and Specifications shall over- ride them similarly the description of work in the tender schedule where it differs from the specifications or drawings shall over-ride them.

15.0 Miscellaneous

15.01 *Provision of Adequate Shoring :* The Contractor shall at his own cost, provide the material for and execute all such shoring, timbering and strutting as is necessary during the execution of work for the stability and safety of all structures, excavations and works such that no damage, injury or loss is caused or likely to be caused to any person or property.

15.02 *Provision of Shed, Store, Houses etc. :* The Contractor shall, at his own cost, provide such sheds or damp proof store houses as the Employer may consider necessary for storage of materials and shall also at his own cost provide Concrete Mixer, Soaking vats etc.

15.03 *Payment of Wages act :* The Contractor shall comply with the provisions of the Payment of Wages Act, and the Rules made there under in respect of all employees employed by him in carrying out this contract as he himself and not the Employer, is responsible under the said act for the compliance thereof.

- 15.04 *Safety* : The Contractor shall be responsible for the safety of his workmen and employees. All serious accidents to them on construction site are to be immediately reported. The Contractor shall be responsible that all such accidents, however and wherever occurring on his works, are reported with out delay to the Engineer and he should make every arrangement to give all possible assistance.
- 15.05 *Laws, Bye Laws etc. relating Works* : The Contractor shall strictly conform to the provisions, for the time being in force of any law relating to works of any regulations and byelaws made by any local authority or any water and lighting companies or any undertakings, within the limits of the jurisdiction of which it is proposed to execute the work.
- 15.06 *Change in Partnership Firm* : In the case of contract by partnership firm, any change in the constitution of the firm shall forthwith be notified by the Contractor to the Engineer.
- 15.07 *Provision for settlement of disputes* : All questions, disputes or difference of any kind whatsoever, arising out of or in connection with the contract at any time, whether during the progress of the work or after its completion or whether before or after the determination of the contract, other than questions, disputes or differences for the decision of which specific provision have been made in the foregoing clause of these conditions (hereinafter referred to as “excepted matters” and decisions on such “except matters” according to the said specific provisions shall be final and binding on the Contractor and shall not be re-opened or attempted to be re-opened on the ground of any informality; omission, delay or error in the proceeding in or about the same or on any other ground whatsoever) shall be submitted in writing by the Contractor to the Employer and the Employer shall within a reasonable time, after the submission of the same, make and notify its decision thereon in writing.

If the Contractor be dissatisfied with the decision of the Employer on any matter in question, dispute or difference on any ground in connection with this contract or as to the withholding by the Employer of any certificate to which the contractor may claim to be entitled to, or if the Employer fails to make a decision within a reasonable time, then and in any such case but not including any of the excepted matters, or matters for which the Contractor has given no claim certificates, the Contractor may within ten days of the receipt of such decision or after the expiry of the reasonable period of time, as the case may be, demand in writing that such matter in question, dispute or difference in connection with this contract be referred to arbitration. Such demand for arbitration shall be delivered to the Employer by the Contractor shall specify the matters which are in question, dispute or difference and only such question, dispute or difference, other than any of the excepted matters, in respect of the contract of which the demand has been made and no other shall be referred to arbitration.

The further progress of any work under the contract shall, unless otherwise directed by the Engineer, continue during the arbitration proceeding, and no payment due or payable by the Employer shall be withheld on account of such proceeding, provided, however, that it shall also be opened to the arbitrator to consider and decide whether or not such work shall continue during the arbitration proceeding.

Matters in question, dispute or difference other than the excepted matters, in respect of this contract to be submitted to arbitration as foresaid shall be referred for decision to a Sole Arbitrator, who shall be the Director, NIT, Rourkela, or any person nominated by him in his behalf.

In case an arbitrator nominated by Director, NIT, Rourkela fails or neglects to arbitrate or is removed, dies or become incapable or withdraw from arbitration for any reason whatsoever, the

Director, NIT, Rourkela, as the case may be, shall have the authority to nominate any other person afresh and / or supply the vacancy for the arbitration.

Such submission shall be deemed to be submission to arbitration and the decision of such arbitration shall be final and conclusive and the provision of the Indian Arbitration Act of the rules there under and all statutory modifications thereof shall govern all such arbitration proceeding and shall be deemed to apply to and be incorporated in this contract.

- 15.08 *Wages to be Paid in time* : The contractor shall ensure that their employees are paid the wage in time and can only make such deductions which are authorized under the payment of wages act and rules framed there under, that relevant records and registers required to be maintained under the said Act & Rules to be maintained by the Contractors and produced before the officers of the Institute and such other authorities under the Act for scrutiny as & when required. In case the Contractors default in making statutory payments under payment of wages Act or any other labour Act, which the Contractor is obliged to make to their employees, the Employer reserves the right to deduct any amount from the bills of the Contractors towards payment to their employees on demand from the Govt. Labour Directorate. This amount shall be made available to such authorities of the Govt. for disbursement to the employees of the contractor. They, however, will be kept informed about the same.
- 15.09 *Malpractice* : Any unauthorized removal or possession of any of the Employer's properties by the Contractor, its agents, servants and / or employees shall be deemed to be a malpractice. If the Contractor is found guilty of Malpractice in the course of carrying out the contract resulting from the acceptance of his tender, the contract will be liable to be cancelled and the security deposit forfeited without prejudice to and other action which the employer may take under law.
- 15.10 *Black Listing* : Any Contractor found guilty of theft or in unauthorized possession of Institute's properties, of deliberate negligence of safety in work place, consciously littering or damaging institute premises or consciously delivering a poor quality product is liable to be debarred from allotment of further work and the work in hand is also liable to be terminated without any notice. Further such contractors are liable to be blacklisted from allotment of work in NIT. The above action will be taken in addition to the other penal action under the relevant provisions of law which the employer may take.

FORM OF AGREEMENT

This agreement made the _____ day of 20
BETWEEN THE NATIONAL INSTITUTE OF TECHNOLOGY, ROURKELA in the State of Orissa,
India (hereinafter called the Employer) of the one part and
of in the state of
(hereinafter called "the Contractor") of the other part. WHEREAS the employer is desirous that certain
works should be constructed, viz
and has accepted a tender by the contractor for the construction, completion and maintenance of such
works NOW THIS AGREEMENT WITNESSETH as follows :

1. In this agreement words and expression shall have the same meanings as are respectively assigned to them in the condition of contract hereinafter referred to.
2. The following documents shall be deemed to form and be read and construed as part of this agreement viz. :
 - a) The said Tender.
 - b) Invitation to Tender.
 - c) Instructions to Tenderers.
 - d) General Conditions of Contract.
 - e) Special Conditions of Contract.
 - f) Specifications.
 - g) Tender Schedule showing the approximate quantities quoted rate and amount against each item.
 - h) Time Schedule.
 - i) Drawings.
 - j) Letter of Intent.
3. In consideration of the payments to be made by the Employer to the contractor as hereinafter mentioned the contractor hereby convenants with the employer to construct, complete and maintain the works in conformity in all respects with the provisions of the contract.
4. The Employer hereby convenants to pay the contractor in consideration of the construction, completion and maintenance of the works the contract price at the times and in the manner prescribed by the contract.

Signed, sealed and delivered by the said
In the presence of :

Dated Signature of Contractor
in the capacity
on behalf of

Dated Signature of the
Employer
Designation



NATIONAL INSTITUTE OF TECHNOLOGY
ROURKELA-769008
SPECIAL TERMS & CONDITIONS FOR
RATE CONTRACT FOR CIVIL ENGINEERING WORKS

- 1.0 The work will be executed as per “ Specification for Civil Engineering Works” and as per the direction of Engineer-in -charge
- 2.0 The Terms and Conditions as laid down in the Notice Inviting Tender “General Terms and Conditions of Contract”, “Special Terms and Conditions of Contracts for Civil Engineering Works”, are binding to the Tenderers. All the above shall form a part of the Agreement including the “ Schedule of Rate”, Letter of Intent and /or Work Order.
- 3.0 The Tenderer (s) should be fully acquainted with all those documents of the tender schedule to deliver a bonafide tender.
- 4.0 The rates quoted should be inclusive of all the required materials, Royalty, all Labour Statutory Payments as applicable on work contract, Safety, Tools & Tackles, all overhead etc. unless otherwise specified. The rates quoted shall remain fixed during the contract period.
- 5.0 **WATER & ELECTRICITY**
 - 5.1 Water for the Execution of work shall be available free of charges to the contractor. The contractor will arrange, at his own cost, storage of water for its continuous use and for the period when water is not supplied. Distribution from the supply point to the work site shall be the responsibility of the contractor.
 - 5.2 Electricity for the execution of work shall be available free of charges to the contractor.
- 6.0 **PROCEDURE FOR EXECUTION OF WORK**
 - 6.1 The contractor may be asked to carry out the repair & Maintenance work in any area of the NIT Campus.
 - 6.2 All the items of schedule or part thereof may be operated as per the Departmental requirement during execution of the contract.
 - 6.3 The contractor is to execute the work irrespective of the quantity as per departmental requirement and as directed by the Engineer-in-charge.
 - 6.4 Any extra item(s) to come during execution of contract shall be taken up on mutual agreement subject to prior approval of Competent Authority for execution.
 - 6.5 The contractor or his authorized representative will report to the Engineer-in-charge on all working days for day-to-day execution of the works. It is the contractor’s responsibility to appraise Engineer- in-charge about the day-to-day progress of work, complaints if any, the amount of work executed etc.
 - 6.6 The work will be executed on item rates basis. The contractor will be issued with Sub-Orders indicating the time of completions of each sub-order and items of work to be executed with

respective quantities and amount. The work shall have to be completed within specified time period.

6.7 Sub-Orders will be drawn by Junior Engineer/Concerned Engineer I/c in triplicate. The copies of these Sub-Orders shall be forwarded to the contractor, concerned Engineer-in-charge for execution.

6.8 No Sub-Order will be issued for the works under guarantee period.

6.8.1 If any work as per sub-order is left unattended due to any of the concerned contractor, it is at the discretion of the Engineer-in-charge to get the left out jobs executed by another Contractor through fresh Sub-Order by giving 3 days notice. In such cases (s), the performance of the defaulting contractor(s) shall be taken as a poor performance.

6.8.2 The completion certificate should be submitted by the agency in prescribed proforma available in the department within 7 days of completion of Sub-Order. It is to be duly certified by junior Engineer, Executive I/C.

6.9 Any defect found within the guarantee period shall have to be attended by the same agency that had executed the job at their own cost and risk within a specified time period.

6.10 If the agency fails to rectify the damage/problem within specified time period then the work shall be rectified by other agency at the cost and risk of the agency that initially executed the job.

7.0 **SAFETY AND PRECAUTIONS**

7.1 The safety regulations have to be strictly followed by the Contractors.

7.2 The Contractors should at all times provide sufficient fencing, night watchman etc. to protect the work. All the workers must have working experience and must be aware of the Safety hazards in connection with various types of work. All safety precautions and other applicable safety rules are to be followed.

7.3 Where the depth of excavation is beyond 2.00 mtrs, necessary precautions should be taken against side collapse.

7.4 Safety belt with a sufficient long lifeline should be worn before going down any manhole or work at night.

7.5 In case of violation of safety provisions/requirements by the contractors, besides stoppage of work, the contractors shall be liable for actions as deemed fit depending upon the nature of violations.

The decision of the authority as to nature of violation shall be final.

8.0 **SATISFACTORY PERFORMANCE OF CONTRACTORS**

8.1 The performance of the contractor will be considered satisfactory if:

8.1.1 The contractor, his authorized representative reports to the maintenance office regularly in connection with the work.

8.1.2 The work is executed as per specification and completed within the period as stipulated in the Sub Order.

- 8.1.3 The contractor has to carry out work during any emergency as per the direction of the engineer-in-charge.
- 8.1.4 The contractor fulfills all the statutory requirements as per rule and follows other rules and regulations as stipulated in the contract.
- 8.1.5 The contractor rectifies its defective works under guarantee period on intimation within a specified period.
- 8.1.6 All safety precautions are ensured by the contractor and adequate supervision by Competent persons provided in order to do the job safely and without damage to any person.

9.0 **DEFAULT**

- 9.1 The performance of contractor will be considered unauthorized if;
- 9.1.1 The contractor does not attend the work as per contract and/or Sub-Order in full or part in time without any valid reason.
- 9.1.2 The contractor does not carry out the instruction of the Engineer-in-charge.
- 9.1.3 The contractor has executed excess work beyond allotted amount without any written clearance from the Engineer-in-charge.
- 9.1.4 The contractor is found consistently irregular in reporting to the maintenance office for carrying out the day-to-day business.
- 9.1.5 The contractor incurs loss to the organizations in any of the activities.
- 9.1.6 The contractor does not follow the terms and conditions as per agreement.
- 9.1.7 The contractor executes any defective /poor quality work.
- 9.1.8 The contractor does not supply the materials / equipment as per specifications and does not respond to the instruction in time.
- 9.1.9 The contractor does not maintain discipline in work place.

TERMS OF PAYMENTS

The payments will be made on the basis of the quantity and quality of job executed on item rate basis.

The contractor shall submit the Running Account bills/ Final bill, prepared neatly or typed, relevant documents. The work order no is to be mentioned on each page of bill. Each page is to be numbered (indicating total no. of pages) and signed by the contractor with date. The bill must contain Sub Order wise detail measurements and abstracts of measurement etc.

The following documents will be required for releasing the running Bill (s).

- i) Statement of salvaged materials, if any
- ii) Sub Order wise job completion report.
- iii) The cash memo/Bills on procurement of wood from approved dealers of Govt/approved timber merchants. Agencies to submit certificate to this effect.
- iv) Abstract of the amount payable/ deduction as per the terms and conditions of contract or as per any other recommendations of the competent authority.

The following additional documents will be required for releasing the final bill.

- i) The documents as mentioned in clause no 10.2 for the remaining part of the work for which payment is due in favour of contractor.
- ii) No Demand Certificate from the contractor as per terms of the contract.

RELEASE OF SECURITY DEPOSIT

The Security Deposit shall be returned / released to the contractor, after expire of guarantee period.

No claim of the Contractor for interest / depreciation of the Security Deposit shall be admissible.

ESCALATION/DE –ESCALATION OF THE CONTRACT VALUE

During the operation of the contract, no escalation in the contract value shall be admitted.

The contract value as quoted and accepted by the contractor shall be inclusive of payment of wage to this worker and all statutory obligations/dues payable by the contractor to his workers.

No material escalation will be admissible during execution period and the rate mentioned in the schedule shall remain firm.

Subject to satisfactory performance of the contractor, original time period may be extended by a maximum of six months at the discretion of NIT and with approval of competent authority with the same rate, terms & conditions of contract.

13.0 MATERIALS TO BE SUPPLIED BY CONTRACTORS AND INSPECTION

All the materials supplied by the Contractors for the work will be as per ISI/BIS specifications / code and / or “Specifications of Civil Engineering Works” as laid down in the contract.

13.1 All the items of work shall be executed as per provisions of various relevant ISI/BIS code and/or “Specifications of Civil Engineering Works” as laid down in the contract.

13.2 Cement to be used in the maintenance & repair works shall be OCL brand.

13.3 All materials supplied by the Contractor shall be the absolute property of the employer which shall not be on any account be removed from the site of work and shall be liable any time to be opened for inspection by the Engineer-in-charge.

13.4 All salvaged/dismantled materials received from the work shall be assessed by the Engineer I/C during execution of the work and may be reused in the work then and there or returned to any of the store by the contractor at their own cost as per the direction of the Engineer-in-charge.

13.6 The quantity of wood materials salvaged from the works done in different quarters and public buildings has to be assessed by the Engineer-in-charge and the salvaged quantity returned by the contractor to Estate store

14.0 DAMAGES

14.1 The contractor has to execute all the works as per the Specifications laid down in the contract.


14.2 All the works are required to be completed in time allotted in the Sub Order.

If the conditions laid down in Clause 14.1 & 14.2 are violated by the contractor without any reason acceptable by Estate Maintenance (Civil), NIT, RKL, then damages @ 5% of the Sub Order value of the balance work/ job executed beyond schedule date of completion of the sub order value of the balance work / job executed beyond scheduled date of completion of the sub order shall be imposed with the approval of competent authority.

COMPENSATION FOR DELAY

The time allowed for carrying out the work as entered in the tender / sub order shall be strictly observed by the Contractor and shall be reckoned from the scheduled date of start given in the Work Order / sub order given to the contractor. Time is deemed to be the essence of the contract, on the part of the contractor and the contractor shall pay as compensation for the work that remains un-commenced or unfinished.

For any contradiction between Special Terms & Conditions and General Terms & conditions of Contract. The Special Terms & Conditions shall supersede the General Terms & Conditions of contract.

DEPARTMENT OF ESTATE MAINTENANCE				
NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA-769008				
				
NIT ROURKELA--SCHEDULE OF RATES 2011-12				
SCh. Sl.No	DSR Ref. No	Description Of Item	Unit	NIT Analyzed Rate 11-12
	2.0	EARTH WORK		
1	2.1	Earthwork in surface excavation not exceeding 30Cm in depth but exceeding 1.5M in width as well as 10 Sq.M on Plan including disposal of excavated earth upto 50m and lift upto 1.5mtr, disposed soil to be levelled and neatly dressed:	100 Sq.M	2284.44
2	2.2	Earthwork in rough excavation banking excavated earth in layers not exceeding 20Cm in depth, breaking clods watering , rolling each layer with ½ tonne roller or wooden or steel rammers and rolling every third and top most layer with power roller of minimum 8tonne and dressing up in embankments for roads flood bans marginal banks and guide banks or filling up ground depressions lead upto 50mtr and lift upto 1.5M	Cum	173.87
3	2.6.1	Earthwork in excavation by mechanical means (Hydraulic excavator)/manual means overareas (Exceeding 30Cm in depth 1.5m in width as well as 10 Sq.M on Plan) including disposal of excavated earth lead upto 50m and lift upto 1.5m disposed earth to be levelled and neatly dressed (All kinds of Soil)	Cum	114.68
4	2.7.1	Earthwork in excavation by mechanical means (Hydraulic excavator)/manual means overareas (Exceeding 30Cm in depth 1.5m in width as well as 10 Sq.M on Plan) including disposal of excavated earth lead upto 50m and lift upto 1.5m disposed earth to be levelled and neatly dressed (Ordinary Rock)	Cum	182.81
5	2.8.1	Earthwork in excavation by mechanical means (Hydraulic excavator)/manual means in foundation trenches or drains (Exceeding 30Cm in depth 1.5m in width as well as 10 Sq.M on Plan) including dressing of sides and ramming of bottoms including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50Mtr. (All kinds of Soil)	Cum	116.41
6	2.9.1	Earthwork in excavation by mechanical means (Hydraulic excavator)/manual means in foundation trenches or drains (Exceeding 30Cm in depth 1.5m in width as well as 10 Sq.M on Plan) including dressing of sides and ramming of bottoms including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50Mtr. (Ordinary Rock)	Cum	195.66
7		Extra rates of quantities for works, executed : (the extra percentage rate is applicable in respect of each item but limited to quantities of work executed in these difficult conditions)In or under water and /or liquid mud, including pumping out water as required.	Cum	20%
8	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20Cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50M and lift upto 1.5M	Cum	50.77
9	2.27	Supplying and filling in plinth with river sand under floors including watering ramming consolidating and dressing complete.	Cum	273.14
10	2.28	Surface dressing of the ground including removing vegetation and in equalities not exceeding 15 Cm deep and disposal of rubbish , Lead upto 50M and lift upto 1.5M	100 Sq.M	564.19
11	2.31	Clearing jungle including uprooting of rank vegetation , Grass brush wood ,trees and sapling of girth upto 30Cm measured at a height of 1 Mtr above the ground leveland removal of rubbish upto a distance of 50M outside te periphery of the area cleared	100 Sq.M	290.75
12	2.32	Clearing grass and removal of the rubbish upto a distance of 50M outside the periphery of the area cleared.	100 Sq.M	149.22
13	2.35	Supplying chemical emulsion in sealed containers including delivery and ,diluting and injecting chemical emulsion for Post Constructional anti termite treatment		
13a	2.35.1	Along external wall where the apron is not provided using chemical emulsion @ 7.5 Ltr/ Sq.M of the vertical surfaces of the substructure to a depth of 300mm including excavaation of channel along the wall & rodding etc complete		
		Chloropyriphos /Lindane emulsifiable concentrate of 20% with 1% concentration	RM	33.42



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13b	2.35.3	Treatment of soil under existing floor using chemical emulsion @one litre per hole, 300 mm apart including drilling 12mm diameter holes and plugging with cement mortar 1:2 (1 Cement : 2 Sand) to match the existing floor Chloropyriphos /Lindane emulsifiable concentrate of 20% with 1% concentration	Sq.M	185.76
13c	2.35.2	Along the external wall below concrete or masonry apron using chemical emulsion @2.25litre per linear metre including drilling and plugging holes etc. Chloropyriphos /Lindane emulsifiable concentrate of 20% with 1% concentration	RM	37.22
	3.0	MORTAR		
14	3.1	Cement Mortar 1:1 (1 Cement : 1 Sand)	Cum	5877.98
15	3.2	Cement Mortar 1:2 (1 Cement : 2Sand)	Cum	4064.80
16	3.3	Cement Mortar 1:3 (1 Cement : 3 Sand)	Cum	3158.46
17	3.4	Cement Mortar 1:4 (1 Cement : 4 Sand)	Cum	2447.60
18	3.5	Cement Mortar 1:5 (1 Cement : 5 Sand)	Cum	2064.84
19	3.6	Cement Mortar 1:6 (1 Cement : 6 Sand)	Cum	1736.75
20	3.16	White Cement Mortar 1:3 (1 Cement : 3 Sand)	Cum	8117.22
	4.0	CONCRETE WORK		
		All Work Upto Plinth level		
21	4.1.2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering. Cement concrete in 1:1½:3 (1 Cement : 1½ sand:3 Coarse Aggregate 20mm Down)	Cum	4506.55
22	4.1.3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering. Cement concrete in 1:2:4 (1 Cement : 2 sand:4 Coarse Aggregate 20mm Down)	Cum	4065.29
23	4.1.4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering. Cement concrete in 1:2:4 (1 Cement : 2 sand:4 Coarse Aggregate 40mm Down)	Cum	3970.04
24	4.1.6	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering. Cement concrete in 1:3:6 (1 Cement : 3 sand:6 Coarse Aggregate 40mm Down)	Cum	3394.87
25	4.1.8	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering. Cement concrete in 1:4:8 (1 Cement : 4 sand:8 Coarse Aggregate 40mm Down)	Cum	3077.31
26	4.1.11	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering. Cement concrete in 1:5:10 (1 Cement : 5 sand:10 Coarse Aggregate 40mm Down)	Cum	2823.26
	4.2	ABOVE PLINTH LEVEL UPTO Vth Floor Level		
27	4.2.2	Providing and laying cement concrete in retaining walls return walls (any thickness) including attached pilasters Columns Piers Abutment Pillars Post Buttress string or lacing courses Parapets Coping bed block anchor blocks plain window sills fillets etc upto floor Five Level excluding the cost of centering and shuttering and finishing CC 1:1½:3 (1 Cement:1½ Coarse Sand:3 Coarse Aggregate 20mm Down)	Cum	4851.12



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28	4.2.3	Providing and laying cement concrete in retaining walls return walls (any thickness) including attached pilasters Columns Piers Abutment Pillars Post Buttress string or lacing courses Parapets Coping bed block anchor blocks plain window sills fillets etc upto floor Five Level excluding the cost of centering and shuttering and finishing CC 1:2:4 (1 Cement:2 Coarse Sand:4 Coarse Aggregate 20mm Down)	Cum	4409.86
29	4.1	Providing and laying damp proof course 40mm thick with cement concrete 1:2:4 (1 cement:2 sand:4 coarse aggregate 12.5mm nominal size)	Sq.M	184.14
30	4.11	Providing and laying damp proof course 50mm thick with cement concrete 1:2:4 (1 cement:2 sand:4 coarse aggregate 12.5mm nominal size)	Sq.M	226.13
31		Providing and laying damp proof course 25mm thick with cement concrete 1:2:4 (1 cement:2 sand:4 coarse aggregate 12.5mm nominal size)	Sq.M	123.16
32	4.13	Applying a coat of residual petroleum bitumen of penetration of 80/100 of approved quality using 1.7kg per Sq.M on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in keroseneoil.	Sq.M	107.59
33	4.12	Extra for Providing and mixing water proofing materials in cement concrete work @ 1Kg per 50kg Of cement	Per bag of cement	352.68
34	4.17	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3sand:6 Coarse aggregate) over 75mm thick bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth	Sq.M	267.13
	5.0	REINFORCEMENT CEMENT CONCRETE UPTO PLINTH LEVEL		
35		Providing and laying in position Reinforced cement concrete of specified grade excluding the cost of centering and shuttering. Cement concrete in 1:1:2 (1 Cement : 1 sand:2 Coarse Aggregate 20mm Down) mix design M25 Up to Plinth	Cum	4822.73
36	5.1.2	Providing and laying in position Reinforced cement concrete of specified grade excluding the cost of centering and shuttering. Cement concrete in 1:1½:3 (1 Cement : 1½ sand:3 Coarse Aggregate 20mm Down)	Cum	4622.35
37	5.1.3	Providing and laying in position Reinforced cement concrete of specified grade excluding the cost of centering and shuttering. Cement concrete in 1:2:4 (1 Cement : 2 sand:4 Coarse Aggregate 20mm Down)	Cum	4181.09
		ABOVE PLINTH LEVEL UPTO Vth Floor Level		
38		Reinforced cement concrete work in walls pillar (any thickness) including attached pilasters, buttresses, plinth, and string courses, fillet, column, pillar, pier, abutment, posts, struts, slab etc upto Floor five level excluding cost of centring shuttering finishing and reinforcement complete as per direction of Engineer in charge Above plinth. RCC 1:1:2 (1 cement: 1 coarse sand:2 graded sone aggregate 20mm nominal size)	Cum	6406.71
39	5.2.2	Providing and laying Reinforced cement concrete in retaining walls return walls (any thickness) including attached pilasters Columns Piers Abutment Pillars Post Buttress string or lacing courses Parapets Coping, slab beam, staircase, bed block anchor blocks plain window sills fillets etc upto floor Five Level excluding the cost of centering and shuttering and finishing CC 1:1½:3 (1 Cement:1½ Coarse Sand:3 Coarse Aggregate 20mm Down)	Cum	5019.81
40	5.2.3	Providing and laying Reinforced cement concrete in retaining walls return walls (any thickness) including attached pilasters Columns Piers Abutment Pillars Post Buttress string or lacing courses Parapets Coping bed block anchor blocks plain window sills fillets etc upto floor Five Level excluding the cost of centering and shuttering and finishing CC 1:2:4 (1 Cement:2 Coarse Sand:4 Coarse Aggregate 20mm Down)	Cum	4578.55
41	5.3	Providing and laying Reinforced cement concrete in beams suspended floors roofs having slope upto 15°landings balconies shelves chajjas lintels bands plain window sills staircases and spiral stairs upto v th floor level excluding cost of centering shuttering finishing and reinforcement with CC 1:2:4 CC 1:2:4 (1 Cement:2 Coarse Sand:4 Coarse Aggregate 20mm Down)	Cum	4538.12
42	5.5	Providing and laying Reinforced cement concrete in arches arch rib domes voult shells foalded plate roofs having slope more than 15° upto v th floor level excluding cost of centering shuttering finishing and reinforcement with CC 1:2:4 CC 1:2:4 (1 Cement:2 Coarse Sand:4 Coarse Aggregate 20mm Down)	Cum	4412.35
43	5.8	Providing and laying Reinforced cement concrete in vertical and horizontal fins indivisualsor forming box louvers facias and eaves board upto v th floor level excluding cost of centering shuttering finishing and reinforcement with CC 1:1½:3 CC 1:1½:3 (1 Cement:1½ Coarse Sand:3 Coarse Aggregate 20mm Down)	Cum	4853.27
44		Extra for concreting in Super structure above floor V level for each four floors or part thereof	Cum	259.60
	5.9	SHUTTERING & CENTERING Centering and shuttering including struting propping etc and removal of forms for:		



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45	5.9.1	Foundations footing bases of column etc for mass concrete	Sq.M	110.23
46	5.9.2	walls (Any thickness) including attached pillaster buttresses plinth and string	Sq.M	155.62
47	5.9.3	Suspended floors roofs landings balconies and access platform	Sq.M	161.74
48	5.9.5	Lintels beams plinth beams girders bressumers and cantilevers.	Sq.M	145.75
49	5.9.6	Columns Pillars piers Abutment Posts and struts	Sq.M	213.01
50	5.9.7	Stair (Excluding landing except spiral Staircases	Sq.M	268.27
51	5.9.8	Spiral Stair cases (including landing)	Sq.M	211.18
52	5.9.14	Extra for shuttering in circular work	Sq.M	0.20
53	5.9.19	Weather shades, Chajja, Corbels etc including edges	Sq.M	333.64
		PLY SHUTTERING		
		centering and shuttering including strutting propping etc and removal of form work for:		
54	5.9.20	suspended floors, roofs, landing balconies and access platform with water proof ply of 12mm thick	Sq.M	325.89
55	5.9.21	Lintels beams plinth beams girders bressumers and cantilevers.with water proof ply of 12mm thick	Sq.M	329.48
56	5.11	Extra for additional height in centering and shuttering where ever required with adequate bracing ,propping etc. including cost of de shuttering and decentering at all levels over height of 3.5m for every additional height of 1mtr or part thereof (Plan area to be measured)		
57	5.11.1	suspended floors, roofs, landing balconies and access platform with water proof ply of 12mm thick	Sq.M	89.22



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58	5.12	Providing , hoisting and fixing upto floor five level precast reinforced cement concrete work in string course, bands, coupings, bed plates anchor blocks, plain window sills, lintel not exceeding 1.5m span and the like including the cost of required centering shuttering , finishing smooth with 6mm thick cement plaster 1:3 (1 cement : 3 sand) on exposed surfaces complete but excluding the cost of reinforcement with 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size).	Cum	6781.98
59		Providing precast cement concrete slab 1:2:4 (1 cement : 2sand: 4 Coarse aggregate 6mm nominal size) reinforced with 6mm dia mild steel including cenetring abd shuttering roughening and cleaning fixing and finishing in cement mortar 1:3(1 cement: 3 sand) etc complete excluding plastering of jambs sills and soffits.		
59a		50mm thick precast slab	Sq.M	707.76
59b		25mm thick precast slab	Sq.M	505.55
60	5.22	Providing and placing reinforcement for R.C.C. work including straightining cutting bending placing in position and binding allcomplete.		
	5.22.6	Thermo Mechanically Treated Bars	Kg	64.01
61	5.24	Extra for rendering smooth the top of suspended floors, landing and stair cases (treads and risers) with cement mortar 1:2 (1 cement: 2 Sand) including floating coat of neat cement and protecting the surface with alayer of 7.5Cm of earth laid over 15mm fine sand in case of suspended floors and brick laid in mud mortar in case of landing and steps including subsequent removal and cleaning of the same.	Sq.M	51.51
62	5.29	Providing and fixing of sheet covering over expansion joints with iron screws as per design to match the colour /shade of wall tretment		
62a	5.29.1.1	Non asbestos fibre cement board 6mm thick as per IS 14862 150mm wide	RM	76.46
62b	5.29.1.2	Non asbestos fibre cement board 6mm thick as per IS 14862 200mm wide	RM	102.67
63	5.29.2	Providing and fixing of sheet covering over expansion joints with iron screws as per design to match the colour /shade of wall tretment		
63a	5.29.2.1	Aluminum fluted strips 3.15mm thick 150mm wide	RM	283.27
63b	5.29.2.2	Aluminum fluted strips 3.15mm thick 200mm wide	RM	293.37
	6.0	BRICK WORK		
		All Work Upto Plinth level		
64	6.1.1	Brick work with F.P.S bricks of class designation 75 in foundation and plinth in cement mortar 1:4 (1cement: 4 Sand)	Cum	3169.92
65	6.2.2	Brick work with F.P.S bricks of class designation 75 in foundation and plinth in cement mortar 1:6 (1cement: 6 Sand)	Cum	2963.50
66	6.3.3	Brick work with F.P.S bricks of class designation 75 in foundation and plinth in cement mortar 1:3 (1cement: 3 Sand)	Cum	3376.33
67	6.12	Half brick masonry with FPS bricks of class designation 75 in foundation and plinthin Cement mortar 1:3 (1 cement: 3 sand)	Sq.M	395.09
68	6.12.2	Half brick masonry with FPS bricks of class designation 75 in foundation and plinthin Cement mortar 1:4 (1 cement: 4 sand)	Sq.M	371.98
	6.4	Above Plinth Level		
69	6.4.1	Brick work with F.P.S bricks of class designation 75 in Super structure above plinth levell upto V floor level in all shapes and size in Cement mortar 1:4 (1cement: 4 sand)	Cum	3524.51
70	6.4.2	Brick work with F.P.S bricks of class designation 75 in Super structure above plinth levell upto V floor level in all shapes and size in Cement mortar 1:6 (1cement: 6 sand)	Cum	3318.10
71		Brick work with F.P.S bricks of class designation 75 in Super structure above plinth levell upto V floor level in all shapes and size in Cement mortar 1:3 (1cement: 3 sand)	Cum	3730.92
72	6.13.1	Half brick masonry with FPS bricks of class designation 75 in Super structure above plinth levell upto V floor levelin Cement mortar 1:3 (1 cement: 3 sand)	Sq.M	433.20
73	6.13.2	Half brick masonry with FPS bricks of class designation 75 in Super structure above plinth levell upto V floor level in Cement mortar 1:4 (1 cement: 4 sand)	Sq.M	410.09
74	6.15	Extra for providing and placing in position 2 Nos 6mm dia M.S.Bars at every third layer of half brick work (With F.P.S bricks)	Sq.M	75.73
75	6.5	Extra for brick work in superstructure above floor V level for each four floors or part thereof by Mechanical mean by lifting materials by mobile crane.	Cum	207.10
76	6.14	Extra for half brick work in superstructure above floor V level for each four floors or part thereof by Mechanical mean by lifting materials by mobile crane.	Sq.M	18.35
77		Brick on edging 7Cm wide 11.4 Cm deep to plinth protection with bricks of class designation 75 including grouting with cement mortar 1:4 (1 Cement: 4 Sand)	Sq.M	353.90



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		7 STONE WORK		
78	7.1.1	Random rubble stone masonry with hard stone in foundation and plinth including leveling up with cement concrete 1:6:12 (1 cement: 6 sand:12 coarse aggregate) at plinth level cement mortar 1:6 (1 cement: 6 Coarse sand)	Cum	2756.75
79		Random rubble stone masonry with hard stone in foundation and plinth including leveling up with cement concrete 1:6:12 (1 cement: 6 sand:12 coarse aggregate) at plinth level cement mortar 1:4 (1 cement: 4 Coarse sand)	Cum	3029.21
80	7.2	Extra for random rubble masonry with hard stone in superstructure above plinth level and upto floor five level including levelling up with cement concrete 1:6:12 (1 cement: 6 sand:12 coarse aggregate) at window sills ceiling level and the like	Cum	418.24
81	7.37	Stone work (machine cut edges) for wall lining upto 10m tr height etc. (vener work) backing filled with grout of 12mm thick cement mortar 1:3 (1 cement: 3 sand) and jointed with cement mortar 1:2 (1 cement: 2 stone dust) including rubbing and polishing complete (to be secured to the backing by means of cramps which shall be paid for separately)		
	7.37.1.1	Kota stone slabs exposed face dressed and rubbed. 25mm thick	Sq.M	1115.56
82	7.38.1.1	Stone tile work for wall lining upto 10m height with special adhesive over 12mm thick bed of cement mortar 1:3 (1 cement: 3 sand) including pointing in white cement with an admixture of pigment to match the stone shade. (EXTERIOR) Grinite stone of any colour 8mm thick (mirror polished and machine cut edge)	Sq.M	2050.69
83	7.38.1.2	Stone tile work for wall lining upto 10m height with special adhesive over 12mm thick bed of cement mortar 1:3 (1 cement: 3 sand) including pointing in white cement with an admixture of pigment to match the stone shade. (EXTERIOR) Rajnagar plain white marble/ udipur green marble/ zebra black marble 8mm thick mirror polished and machine cut edge	Sq.M	2050.69
84	7.39	Extra for stone work for wall lining on exterior walls of height more than 10m from ground level for every additional height of 3m and part there of	Sq.M	57.82



SCh. Sl.No	DSR Ref. No	Description Of Item	Unit	NIT Analyzed Rate 11-12
	8.0	MARBLE WORK		
85	8.1	Marble work gang saw cut (polished and machine cut) of thickness 18mm for wall lining (vener work) in cement mortar 1:3 (1 cement: 3 sand) including pointing with white cement mortar 1:3 (1 white cement:3 marble dust) with an admixture of pigment to match the marble sahde (to be secured to the backing means of cramp which shall be paid separately)		
85a	8.1.1.1	Rajnagar plain white marble/ udipur green marble/ zebra black marble mirror polished and machine cut edge area of slab Upto 0.5Sq.M	Sq.M	1677.62
85b	8.1.1.2	Rajnagar plain white marble/ udipur green marble/ zebra black marble mirror polished and machine cut edge area of slab over 0.5Sq.M	Sq.M	1672.84
86	8.2	Providing and fixing of 18mm thick gang saw cut mirror polished (pre moulded and pre polished) machine cut for kitchen platform vanity counters window sill facials and similar location of required size of approved shade colour and texture laid over 20mm thick base cement mortar 1:4 with joints treated with white cement mixed with matching pigment epoxy touch ups including rubbingcuring moulding and polishing to edges to give high gloss finish etc complete at all levels		
86a	8.2.1.1	Rajnagar plain white marble/ udipur green marble/ zebra black marble mirror polished and machine cut edge area of slab upto 0.5Sq.M	Sq.M	1483.40
86b	8.2.1.2	Rajnagar plain white marble/ udipur green marble/ zebra black marble mirror polished and machine cut edge area of slab over 0.5Sq.M	Sq.M	1483.40
87	8.2.2	Providing and fixing of 18mm thick gang saw cut mirror polished (pre moulded and pre polished) machine cut for kitchen platform vanity counters window sill facials and similar location of required size of approved shade colour and texture laid over 20mm thick base cement mortar 1:4 with joints treated with white cement mixed with matching pigment epoxy touch ups including rubbingcuring moulding and polishing to edges to give high gloss finish etc complete at all levels		
87a	8.2.2.1	Granite of any colourmirror polished and machine cut edge area of slab upto 0.5Sq.M	Sq.M	2288.32
87b	8.2.2.2	Grinite of any colour mirror polished and machine cut edge area of slab over 0.5Sq.M	Sq.M	2162.21
88	8.3	Extra for providinh edge moulding to 18mm thick marble stone counters vanities etc including machine polishing to edge to give high gloss finish etc complete as per direction of Engineer in Charge		
88a	8.3.1	Marble work	RM	67.72
88b	8.3.2	Grinite work	RM	89.67
89	8.5	Extra for providing opening of required size and shape for wash basin/kitchen sink in kitchen platform vanity counters and similar location in marble /grinite work including necessary holes for pillar taps including rubbing and polioshing of cut edges etc complete	Each	124.63
90	8.6	Mirror polishing on marble work /grinite work stone work where ever required give high gkloss finish complete	Sq.M	73.76
91	8.9	Stone tile (polished) work for wall lining over 12mm thick bed of cement mortar 1:3 (1 cement: 3 sand) and cement slurry including pointing in white cement with an admixture of pigment to match the stone shade. (Interior)		
	8.9.1.1	Grinite stone of any colour 8mm thick (mirror polishedand machine cut edge)	Sq.M	2185.76
92	8.9.1.2	Stone tile (polished) work for wall lining over 12mm thick bed of cement mortar 1:3 (1 cement: 3 sand) and cement slurry including pointing in white cement with an admixture of pigment to match the stone shade. (Interior)		
		Raj nagar white marble/udipur green marble/zebra black marble 8mm thick	Sq.M	1063.08
93	8.10	Providing and fixing 18mm thick stone slab table rubbed , edges rounded and polished of size 75x50and 1.8cm thick in urinal partition by cutting chases of appropriatewidth with chase cutter and embedding the stone in chase with epoxy grout or with cement concrete 1:2:4 (1 cement:2sand:4 coarse aggregate 6mm nominal size) as per direction of EngineerinCharge		
	8.10.1	White agaria marble stone	Sq.M	1661.16
94		Providing and fixing 18mm thick stone slab table rubbed , edges rounded and polished of size 75x50CM deep and 1.8cm thick fixed in urinal partition by cutting chases of appropriatewidth with chase cutter and embedding the stone in chase with epoxy grout or with cement concrete 1:2:4 (1 cement:2sand:4 coarse aggregate 6mm nominal size) as per direction of EngineerinCharge		
	8.10.2	Grinite stone of approved shade	Sq.M	1939.92
95		Providing and fixing of cramps of required size and shape in RCC/CC backing with cement mortar 1:2 (1 cement : 2 sand) including drilling necessary hole in stones and embedding the cramp in the hole (fastener to be paid separately) Gunmetal cramp	Each	127.82
	9.0	WOOD WORK and PVC WORK		
96	9.1	Providing wood work in framed of doors Windows, clearstorey windows and other frames , wrought framed and fixed in position:		
	9.1.1	Second class teak wood	Cum	109190.60
97		Providing wood work in framed of doors Windows, clearstorey windows and other frames , wrought framed and fixed in position:		
97a	9.1.2	Sal Wood	Cum	48600.30
97b		Pia sal wood	Cum	83223.33



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98	9.1.3	Providing wood work in firmaed of doors and windows, clearstorey windows and other frames , wroughtframed and fixed in position Kiln seasoned chemically treated hollock wood.	Cum	41827.79
99	9.5.1	Providing and fixig panelled or pannelled and glazed shutters for doors and windows and clearstorey windows including ISI marked black enamelled M.S butt hinges with necessary screws		
	9.5.1.1	Second class Teak Wood (35mm thick shutters)	Sq.M	2647.49
100	9.5.1	Providing and fixig panelled or pannelled and glazed shutters for doors and windows and clearstorey windows including ISI marked black enamelled M.S butt hinges with necessary screws excluding glass panelling which will be paid separately		
	9.5.1.2	Second class Teak Wood (30mm thick shutters)	Sq.M	2328.34
101	9.5.2	Providing and fixig panelled or pannelled and glazed shutters for doors and windows and clearstorey windows including ISI marked black enamelled M.S butt hinges with necessary screws excluding glass panelling which will be paid separately		
	9.5.2.1	Kiln seasoned and chemically treated hollock wood (35mm thick shutters)	Sq.M	1139.11
102		Providing and fixig panelled or pannelled and glazed shutters for doors and windows and clearstorey windows including ISI marked black enamelled M.S butt hinges with necessary screws		
	9.5.2.2	Kiln seasoned and chemically treated hollock wood (30mm thick shutters)	Sq.M	1027.66
103	9.6	Providing and fixing 35mm thick factory made laminated veneer lumber door shutter conforming to IS :14616 and TADS 15:2001 (Part B) including ISI marked blackenamelled butt hinges with necessary screws as per direction of Engineer in Charge and panelling with panels of :		
	9.6.2	12mm thick prelaminated (with particle board decorative lamination on both sides) grade-I, medium density flat pressed, three layer particle board FPT-I or graded wood particle board FPT-I, conforming to IS 3087 bonded with BWP type synthetic resin adhesive as per IS 848 and prelamination conforming to IS 12823 grade-I type -II marked.	Sq.M	2039.69
104	9.7	providing and fixing of panels for panelling oe panelling and glazing in panelled or panelled and glazed shutters for doors , windows and clearstorey windows (area of opening for panell inserts excluding portion inside grooves or rebates to be measured) panelling for panelled or panelled and glazed shutters 25mm to 40mm thick:		
	9.7.1	Second class Teak wood	Sq.M	2148.86
105	9.7.2	providing and fixing of panels for panelling oe panelling and glazing in panelled or panelled and glazed shutters for doors , windows and clearstorey windows (area of opening for panell inserts excluding portion inside grooves or rebates to be measured) panelling for panelled or panelled and glazed shutters 25mm to 40mm thick:		
		Kiln seasoned and chemically treated hollock wood	Sq.M	944.50
106	9.9.1.1	Providing and fixing glazed shutters for doors and windows and clearstorey windows using 4mm thick float glass panes including ISI marked black enamelled M.S butt hinges with necessary screws		
		Second class Teak Wood (35mm thick shutters)	Sq.M	3290.80
107	9.9.1.2	Providing and fixing glazed shutters for doors and windows and clearstorey windows using 4mm thick float glass panes including ISI marked black enamelled M.S butt hinges with necessary screws		
		Second class Teak Wood (30mm thick shutters)	Sq.M	2926.06
108	9.9.2	Providing and fixing glazed shutters for doors and windows and clearstorey windows using 4mm thick float glass panes including ISI marked black enamelled M.S butt hinges with necessary screws		
	9.9.2.1	Kiln seasoned and chemically treated hollock wood (35mm thick)	Sq.M	1574.72
109		Providing and fixing glazed shutters for doors and windows and clearstorey windows using 4mm thick float glass panes including ISI marked black enamelled M.S butt hinges with necessary screws		
	9.9.2.2	Kiln seasoned and chemically treated hollock wood (30mm thick)	Sq.M	1447.35
110	9.10	Providing and fixing of factory made laminated veneer lumber glazed shutter conforming to IS 14616 and TADS 15:2001(Part-B) using 4mm thick float glass panes for doors , windows,and clearstorey windows including ISS marked black enamelled M.S.butt hinges with necessary screws as per direction of Engineerin Charge.		
	9.10.1	30mm thick Shutters	Sq.M	1658.72
111	9.11	Extra for providing heavy sheet float glass panes of ordinary float glass in glazed doors , Windows and clear strey windowshutters (area of opening of glass panes excluding portion inside rebate shall be measured)		
	9.11.1	5.5mm thick instead of 4mm thick float glass	Sq.M	58.08
112	9.12	Deduct for providing frosted glass panes 4mm thick instead of ordinary float glass 4mm thick in glazed doors , Windows and clear strey windowshutters (area of opening of glass panes excluding portion inside rebate shall be measured)	Sq.M	-121.96
113	9.13	Deduct for providing Pin headed glass panes 4mm thick instead of ordinary float glass 4mm thick in glazed doors , Windows and clear strey windowshutters (area of opening of glass panes excluding portion inside rebate shall be measured)	Sq.M	-121.96



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SCh. Sl.No	DSR Ref. No	Description Of Item	Unit	NIT Analyzed Rate 11-12
114	9.16.1	Providing and fixing of 25mm thick shutters for Cup board etc: panelled or panelled & glazed shutters		
	9.16.1.1	Second class Teak Wood including ISI marked anodised aluminium butt hinges with necessary screws	Sq.M	2556.52
115	9.16.2	Providing and fixing of 25mm thick shutters for Cup board etc: glazed shutters		
	9.16.2.1	Second class Teak Wood including ISI marked anodised aluminium butt hinges with necessary screws	Sq.M	2651.54
116	9.18	Providing and fixing of pre laminated flat pressed 3 layer (medium density) particle board or graded particle board IS 3087 marked with one side decorative and other side balancing lamination grade-I Type-II exterior grade IS:12823 marked in shelves with screw and fittings wherever required edges to be painted with polyurethane primer (fittings to be paid separately)		
	9.18.2	25mm thick	Sq.M	1056.52
117	9.2	Providing and fixing of ISI marked flush door shutters conforming to IS 2202 (Part-I) decorative type , core block board construction with frame of 1st class hard wood and well matched teak 3ply veneering with vertical grains or cross bands and face veneers on both faces of shutters		
	9.20.1	35mm thick includig ISI marked stainless steel butt hinges with necessary screws.	Sq.M	4029.16
118	9.20.2	Providing and fixing of ISI marked flush door shutters conforming to IS 2202 (Part-I) decorative type , core block board construction with frame of 1st class hard wood and well matched teak 3ply veneering with vertical grains or cross bands and face veneers on both faces of shutters		
		30mm thick includig ISI marked stainless steel butt hinges with necessary screws.	Sq.M	3680.71
119 (a)	9.21	Providing and fixing of ISI marked flush door shutters conforming to IS 2202 (Part-I) Non-decorative type , core block board construction with frame of 1st class hard wood and well matched teak 3ply veneering with vertical grains or cross bands and face veneers on both faces of shutters		
	9.21.1	35mm thick includig ISI marked stainless steel butt hinges with necessary screws.	Sq.M	3913.01
119(b)		Providing and fixing 35 mm thick flush door shutter with ISI marked non decorative type with solid block board construction with frame of first class hard wood and well matched, commercial veneering on both faces of shutter finished as per grains and cross bands on face veneers bonded with phenol formaldehyde synthetic resin on both faces of shutter finished as per specifications mentioned (Drawing) with teak wood lipping of 6 mm thick. (Excluding the cost of fittings.) (GREEN /KIT/MAYUR/EQUIVALENT)		
		35mm thick includig ISI marked stainless steel butt hinges with necessary screws.	Sq.M	1628.02
120	9.21.2	Providing and fixing of ISI marked flush door shutters conforming to IS 2202 (Part-I) Non-decorative type , core block board construction with frame of 1st class hard wood and well matched teak 3ply veneering with vertical grains or cross bands and face veneers on both faces of shutters		
		30mm thick includig ISI marked stainless steel butt hinges with necessary screws.	Sq.M	3216.11
121	9.20.3	Providing and fixing of ISI marked flush door shutters conforming to IS 2202 (Part-I) decorative type , core block board construction with frame of 1st class hard wood and well matched teak 3ply veneering with vertical grains or cross bands and face veneers on both faces of shutters		
		25mm thick (for cupboard) including ISI marked nickel plated bright finished M.S piano hinges IS :3818 marked with necessary screws.	Sq.M	3486.82
122	9.21.3	Providing and fixing of ISI marked flush door shutters conforming to IS 2202 (Part-I) Non-decorative type , core block board construction with frame of 1st class hard wood and well matched teak 3ply veneering with vertical grains or cross bands and face veneers on both faces of shutters		
		25mm thick (for cupboard) including ISI marked nickel plated bright finished M.S piano hinges IS :3818 marked with necessary screws.	Sq.M	2975.76
123	9.23	Extra for providing lipping with 2nd class teak wood battens 25mm minimumu depth on all edges of shutters (over all area of the door shutter to be measured) flush door decorative and non decorative type	RM	290.38
124	9.32	Providing 50x50x50mm 2nd class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 sand) and making the wall.	Each	18.83
125	9.33	Providing and fixing of expandable fasteners of specified size with necessary plastic sleeves and galvanised M.S screw including drilling holes in masonry work/ CC/ RCC and making good the walls etc complete		
	9.33.3	40mm long	Each	14.63
126		Providing and fixing in wall lining/ panelling flat pressed three layer (Medium density) BWR particle board or graded wood prelaminated one side decorative lamination on other side balancing lamination grade-I type II IS 12823 marked including priming coat on unexposed surface, with necessary fixing arrangement and screws etc. complete:		
	9.35.2	18mm thick	Sq.M	1161.39
127		Providing and fixing of prelaminated BWR board with (one side decorative and other side balancing lamination) flat pressed, 3 layers or graded particle board (medium density) grade-I Type II IS 12823 marked with necessary fixing arrangement and screws including drilling necessary holes for rawl plug etc. and priming coat on exposed surface complete:		
		18mm thick	Sq.M	1327.56



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128	9.40	Providing and fixing woden moulded beading to door and window frame with iron scres , plugand priming coat on exposed surface etc complete		
	9.40.1.1	2nd Class teak wood 50x12mm	RM	99.12
129	9.40.1.2	Providing and fixing woden moulded beading to door and window frame with iron scres , plugand priming coat on exposed surface etc complete		
	9.42	2nd Class teak wood 50x20mm	RM	142.68
130		Providing and fixing of 18mm thick 150mm wide pelmet of flat pressed m layer garded wood particle board medium density grade -I IS 3087 marked including top cover of 6mm commercial ply wood conforming to IS 303 BWR garde , nickel plated M.S pipe 20mm dia (heavy type) curtain rod with nickel plated brackets including fixing with 25x3 M.S flat 10 Cm long and rawl plugs 50mm long (designation 10 Nos) etc complete.	RM	288.29
131		Providing and fixing of curtain rods of 1.25mm thick chromium plated brass pipe with two chromium plated brass brackets fixed with CP brass screws and wooden plugs etc whenever necessary complete:		
	9.46.2	20mm dia	RM	373.02
132	9.47	Providing and fixing of curtain rods of 1.25mm thick chromium plated MS pipe with two chromium plated MS brackets fixed with CP brass screws and wooden plugs etc whenever necessary complete:		
	9.47.1	20mm dia (heavy type)	RM	96.16
133	9.48	Providing and fixing of M.S grills of required pattern in frames of windows etc. with M.S flats, Square or round bar etc all complete		
	9.48.1	Fixed to steel window by welding	Kg	74.22
134	9.48.2	Providing and fixing of M.S grills of required pattern in frames of windows etc. with M.S flats, Square or round bar etc all complete		
		Fixed to openings / wooden frames with rawl plugs screw etc	Kg	80.86
135	9.51	Providing and fixing fly proof galvanised M.S wire gauge to windows and clearstorey window using galvanised M.S wire with average width of aperature 1.4mm in both directions with wire dia 0.63mm		
	9.51.1	With second class teak wood beading 62x19mm	Sq.M	671.78
136	9.53	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts nuts and wooden plugs and embedding in cement concrete block 30x10x15 cm 1:3:6 mix (1 cement : 3 sand : 6 coarse aggregate)	Each	78.15
137	9.117	Providing and fixing factory made UPVC door frame made of UPVC extruded , section having an overall dimension , as below (tolerence +/- 1mm) with wall thickness 2.0 +/- 0.2mm. Corners of the door frame to be jointed with galvanized brackets and stainless steel screws, jointed and mitred and plastic wilded. the hinge side vericalof the frames reinforced by galvanised m.S tube of size 19x19mm and 1mm +/- 0.1 mm wall thick ness and 3 nos stainless steel hinges fixed to the frame complete aas per manufacture specification and direction of Engineer in charge.		
	9.117.1	Extruded section Profile size 48x40mm	RM	420.16
138		Providing and fixing factory made UPVC door frame made of UPVC extruded , section having an overall dimension , as below (tolerence +/- 1mm) with wall thickness 2.0 +/- 0.2mm. Corners of the door frame to be jointed with galvanized brackets and stainless steel screws, jointed and mitred and plastic wilded. the hinge side vericalof the frames reinforced by galvanised m.S tube of size 19x19mm and 1mm +/- 0.1 mm wall thick ness and 3 nos stainless steel hinges fixed to the frame complete aas per manufacture specification and direction of Engineer in charge.		
	9.117.2	Extruded section Profile size 42x50mm	RM	449.19
139	9.118.1	Providing and fixing to existing door frames 24mm thick factory made PVC door shutter made of styles and rails of a UPVC hollow section of size 59x24mm and thickness 2mm +/- 0.2mm with inbuilt edging on both sides. The styles and rails mitred and jointed at the corners by means of M.S galvanised /plastic brackets of size 75x220 mm having wall thick ness 1.0mm and stainless steel screws. the styles of the shutter reinforced by inserting galvanised M.S tube of size 20x20mm and 1mm +/- 0.1mm wall thickness. the lock rail made up of H section, a UPVC hollow section of size 100x24mm and 2mm+/- 0.2mm wall thickness fixed to the shutter styles by means of plastic / galvanised M.S U cleats. the shutter frame filled with a UPVC multichambered single panel of size not less than 620mm , having over all thickness of 20mm and 1mm +/- 0.1mm wall thickness. the panels filled vertically and tie bar at two places by inserting horizontally 6mm galvanised M.S rod and fastened with nuts and washers complete as per manufactur's specification and direction of Engineer in Charge. (For WC and bathroom door shutter)	Sq.M	2170.91



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SCh. Sl.No	DSR Ref. No	Description Of Item	Unit	NIT Analyzed Rate 11-12
140	9.118.2	Providing and fixing to existing door frames 30mm thick factory made PVC door shutter made of styles and rails of a UPVC hollow section of size 30x60mm and thickness 2mm +/- 0.2mm with inbuilt edging on both sides. The styles and rails mitred and jointed at the corners by means of M.S galvanised /plastic brackets of size 75x220 mm having wall thick ness 1.0mm and stainless steel screws. the styles of the shutter reinforced by inserting galvanised M.S tube of size 20x20mm and 1mm +/- 0.1mm wall thickness. the lock rail made up of H section, a UPVC hollow section of size 100x30mm and 2mm+/- 0.2mm wall thickness fixed to the shutter styles by means of plastic / galvanised M.S U cleats. the shutter frame filled with a UPVC multichambered single panel of size not less than 620mm , having over all thickness of 20mm and 1mm +/- 0.1mm wall thickness with 20mm panel beading of suitable size / glass (4mm thick) /louver section , louver frame of the suitable size the panels filled vertically and tie bar at two places by inserting horizontally 6mm galvanised M.S rod and fastened with nuts and washers complete as per manufacture's specification and direction of Engineer in Charge. (For WC and bathroom door hutter)	Sq.M	2403.21
141	9.118.3	Providing and fixing to existing door frames 25mm thick PVC flush door shutters upto 737 mm width of colour and shade as approved by Engineer in Charge made out of one piece multi chamber extruded PVC section of the size of 762x25mm or less as per requirement with an average wall thickness of 1mm +/- 0.3mm . PVC foam end cap of size 23x10mm are provided on both vertical edges to ensure the overall thickness of 25mm . An Ms tube having dimensions 19x19mm is inserted along the hinges side of the door core of the door shutter should be filled with high density polyurethenefoam. The top and bottom edges of the shutter are covered with an end cap of the size 25x11mm . door shutter shall be reinforced with special polymeric reinforcement as per manufacture specification and drawing to take up necessary hardware and fixtures . Stickers indicating the location of hardware will be pasted at appropriate places	Sq.M	2228.99
142	9.55	Providing and fixing ISI marked M.S pressed butt hinges bright finished with necessary screws etc complete:		
142a	9.55.1	125x65x2.12mm	Each	20.41
142b	9.55.2	100x58x1.90mm	Each	18.09
142c	9.55.3	75x47x1.70mm	Each	13.57
142d	9.55.4	50x37x1.50mm	Each	8.59
143	9.56	Providing and fixing IS 1341 marked M.S heavy weight butt hinges with necessary screws etc complete		
143a	9.56.1	125x90x4.0mm	Each	34.11
143b	9.56.2	100x75x3.50mm	Each	22.50
143c	9.56.3	75x60x3.10mm	Each	12.61
143d	9.56.4	50x40x2.5mm	Each	8.36
144	9.57	Providing and fixing ISI marked oxidised M.S pressed Butt hinges with necessary screw etc complete		
144a	9.57.1	125x65x2.12mm	Each	38.52
144b	9.57.2	100x58x1.90mm	Each	29.70
144c	9.57.3	75x47x1.70mm	Each	17.29
144d	9.57.4	50x37x1.50mm	Each	11.03
145	9.58	Providing and fixing ISI marked oxidised M.S parliamentary hinges with necessary screw etc complete		
145a	9.58.1	150x125x27x2.80mm	Each	40.73
145b	9.58.2	125x125x27x2.8x mm	Each	34.81
145c	9.58.3	100x125x27x2.8mm	Each	28.31
145d	9.58.4	75x100x20x2.24mm	Each	31.00
146	9.59, 9.60	Providing and fixing ISI marked oxidised M.S single acting spring/ double acting spring hinges hinges with necessary screw etc complete		
146a	9.59.1	Single acting 150mm	Each	114.02
146b	9.59.2	Single acting 125mm	Each	98.12
146c	9.60.1	Double acting 150mm	Each	125.53
146d	9.60.2	Double acting 125mm	Each	110.66
147	9.61	Providing and fixing of M.S piano hinges ISI marked IS 3818 finished with nickel plating and fixing with necessary screw etc complete		
147a	9.61.1	Overall width 50mm	Rm	112.28
147b	9.61.2	Overal width 65mm	Rm	118.09
147c	9.61.3	Overall width 35mm	Rm	100.67
148	9.62	Providing and fixing of ISI marked oxidised M.S Sliding door bolts with nut and screw etc complete		
148a	9.62.1	300x16mm	Each	196.57
148b	9.62.2	250x16mm	Each	109.43
149	9.63	Providing and fixing ISI marked oxidised M.S tower bolt black finish (barrel type) with necessary screws etc complete:		
149a	9.63.1	250x10mm	Each	44.69
149b	9.63.2	200x10mm	Each	33.43
149c	9.63.3	150x10mm	Each	25.28



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149d	9.63.4	100x10mm	Each	17.82
150	9.64	Providing and fixing of ISI marked 85x42mm oxidised M.S pull bolt lock conforming to IS 7534 with necessary screws and washers etc complete	Each	93.98
151	9.65	Providing and fixing ISI marked oxidised M.S door latches conforming to IS 5930 with screws etc complete..		
151a	9.65.1	300x20x6mm	Each	173.07
151b	9.65.2	250x20x6 mm	Each	155.65
152	9.66	Providing and fixing ISI marked oxidised M.S handles conforming to IS 4992 with screws etc complete..		
152a	9.66.1	125mm	Each	16.79
152b	9.66.2	100mm	Each	13.20
152c	9.66.3	75mm	Each	9.72
153	9.67	Providing and fixing ISI marked oxidised M.S hasp and staple (safety type) conforming to IS 363 with screws etc complete.		
153a	9.67.1	150mm	Each	18.25
153b	9.67.2	115mm	Each	15.66
153c	9.67.3	90mm	Each	13.33
154	9.68	Providing and fixing oxidised M.S casement stays (straight peg type) with necessary screw and etc complete.		
154a	9.68.1	300mm weighing not less than 200gm	Each	34.25
154b	9.68.2	250mm weighing not less than 150gm	Each	26.36
154c	9.68.3	200mm weighing not less than 120gm	Each	21.71
155	9.69	Providing and fixing oxidised M.S safety chain with necessary fixtures for door (Weighing not less than 450 Gms)	Each	56.91
156		Providing and fixing oxidised M.S casement window fastener with necessary fixtures for door	Each	20.68
157	9.70	Providing and fixing of IS 12817 marked stainless steel butt hinges with stainless steel screw etc complete		
157a	9.70.1	125x64x2.12mm	Each	35.97
157b	9.70.2	100x58x1.90mm	Each	28.54
157c	9.70.3	75x47x1.70mm	Each	24.36
157d	9.70.4	50x37x1.50mm	Each	16.70
158	9.71	Providing and fixing IS 12817 marked stainless steel butt hinges (heavy weight) with stainless steel screws etc complete:		
158a	9.71.1	125x64x2.50mm	Each	41.78
158b	9.71.2	100x60x2.50mm	Each	33.18
158c	9.71.3	75x50x2.50mm	Each	24.12
159	9.72	Providing and fixing bright finished brass butt hinges (Heavy type) with necessary screw etc complete:		
159a	9.72.1	125x85x5.5mm	Each	197.83
159b	9.72.3	100x85x5.5mm	Each	171.01
159c	9.72.5	75x65x4mm	Each	107.71
159d	9.72.6	50x40x2.5mm	Each	66.40
160	9.73	Providing and fixing bright finished brass parliamentary hinges with necessary screw etc complete		
160a	9.73.1	150x125x27x5mm	Each	102.02
160b	9.73.2	125x125x27x5 mm	Each	186.41
160c	9.73.3	100x125x27x5mm	Each	152.15
160d	9.73.4	75x100x20x3.2mm	Each	115.91
161	9.74	Providing and fixing bright finished brass tower bolt (barrel type) with necessary screws etc complete:		
161a	9.74.1	250x10mm	Each	270.55
161b	9.74.2	200x10mm	Each	230.87
161c	9.74.3	150x10mm	Each	170.48
161d	9.74.4	100x10mm	Each	126.92
162		Providing and fixing of Bright finished brass Sliding door bolts with nut and screw etc complete		
162a		300x16mm	Each	1033.63
162b		250x16mm	Each	966.53
163	9.76	Providing and fixing bright finished brass 100mm mortice latch and lock with 6 levers and pair of lever handles with necessary screws etc complete: (best make of approved quality)	Each	440.37
164	9.79.2	Providing and finishing special quality bright finished brass cupboard or ward robe locks with four levers including necessary screws etc complete (best make of approved quality)(50mm dia)	Each	91.92
165	9.79.1	Providing and finishing special quality bright finished brass cupboard or ward robe knob with necessary screws etc complete best make of approved quality)(40mm dia)	Each	740.40
166	9.81	Providing and fixing bright finished brass handles with screws etc complete:		
166a	9.81.1	125mm	Each	154.20
166b	9.81.2	100mm	Each	141.69
166c	9.81.3	75mm	Each	128.92



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167	9.82	Providing and finishing special quality bright finished brass hanging type floor door stopper with necessary screws etc complete	Each	149.27
168		Providing and fixing IS 3564 marked Aluminum die cast body/ extruded section body tubular type universal hydraulic door closer with necessary accessories and screws etc complete.		
168a	9.83	Aluminium die cast body	Each	2130.38
168b	9.84	Aluminium extruded section	Each	2362.68
169	9.85	Providing and fixing bright finished brass casement window fastener with necessary screw etc complete.	Each	83.15
170	9.86	Providing and fixing bright finished brass casement stays (straight peg type) with necessary screws etc. complete		
170a	9.86.1	300mm	Each	106.38
170b	9.86.2	250mm	Each	71.54
171	9.87	Providing and fixing bright finished brass hasp and staple (safety type) with necessary screw etc complete:		
171a	9.87.1	150mm	Each	67.56
171b	9.87.2	115mm	Each	56.58
172	9.88	Providing and fixing bright finished CP brass 100mm mortice latch and lock with 6 levers and pair of lever handles with necessary screw etc complete(best make of approved quality)	Each	440.37
173	9.92	Providing and fixing bright finished CP brass handles with screws etc complete:		
173a	9.92.1	125mm	Each	222.73
173b	9.92.2	100mm	Each	187.67
173c	9.92.3	75mm	Each	152.83
174	9.93	Providing and fixing bright finished CPbrass casement window fastener with necessary screw etc complete.	Each	94.77
175	9.94	Providing and fixing bright finished CP brass casement stays (straight peg type) with necessary screws etc. complete		
175a	9.94.1	300mm	Each	92.44
175b	9.94.2	250mm	Each	85.48
176	9.95	Providing and fixing ISI marked aluminium butt hinges anodised coating not less than grade AC 10 as per IS 1868) transparent or dyed to required colour or shade with necessary screws etc complete: butt hinges (Heavy type) with necessary screw etc complete:		
176a	9.95.1	125x75x4mm	Each	78.96
176b	9.95.2	125x63x4mm	Each	81.75
176c	9.95.3	100x75x4mm	Each	60.27
176d	9.95.4	100x63x4mm	Each	52.97
176e	9.95.5	100x63x3.2mm	Each	62.83
176f	9.95.6	75x63x4mm	Each	42.40
176g	9.95.7	75x63x3.2mm	Each	34.73
176h	9.95.8	75x45x3.2mm	Each	24.28
177	9.97	Providing and fixing of aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS :1868) transparent or dyed to required colour or shades with necessary screw etc complete:		
177a	9.97.1	300x10mm	Each	188.53
177b	9.97.2	250x10mm	Each	150.20
177c	9.97.3	200x10mm	Each	121.20
177d	9.97.4	150x10mm	Each	97.19
178	9.96	Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS 1868) transparent or dyed to required colour or shade with nuts and screw etc . Complete:		
178a	9.96.1	300x16mm	Each	173.12
178b	9.96.2	250x16mm	Each	149.89
179	9.100	Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC10 as per IS 1868) transparent or dyed to required colour or shade with necessary screw etc. complete:		
179a	9.100.1	125mm	Each	84.51
179b	9.100.2	100mm	Each	78.60
179c	9.100.3	75mm	Each	72.79
180	9.101	Providing and fixing aluminum hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS 1868) transparent or dyed to required colour and shade with necessary screws etc complete:		
180a	9.101.1	Single Rubber stopper	Each	45.32
180b	9.101.2	Double rubber stopper	Each	80.16
181	9.109	Providing and fixing PTMT door catcher of length 72mm and dia of 42mm with suitable washers weighing not less than 33 Gms	Each	33.70
182	9.113	Providing and fixing bright finished 100mm mortice lock with 6 levers with out pair of handles for aluminium door with necessary screw etc complete (best make of approved quality) as per direction of Engineer in Charge.	Each	290.19
183	9.114	Providing and fixing magnetic catcher in cupboard / ward robe shutters including fixing with necessary screws etc complete (best make of approved quality)		



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183a	9.114.1	Triple strip vertical type	Each	32.06
183b	9.114.2	two strip horizontal type	Each	20.44
184		Providing and fixing of stainless steel tower bolts ISI marked of approved make jindal/ equivalent with necessary screw etc complete:		
184a		300x10mm	Each	160.92
184b		250x10mm	Each	145.82
184c		200x10mm	Each	122.62
184d		150x10mm	Each	98.10
185		Providing and fixing Stainless steel sliding door bolts ISI marked (of approved make jindal/ equivalent) with nuts and screw etc . Complete: as per direction of Enginner in Charge.		
185a		300x16mm	Each	306.57
185b		250x16mm	Each	248.50
185c		300x12mm	Each	265.92
185d		250x12mm.	Each	231.08
186		Providing and fixing Stainless steel handles ISI marked (of approved make jindal/ equivalent) with nuts and screw etc . Complete: as per direction of Enginner in Charge.		
186a		100mm	Each	62.66
186b		150mm	Each	74.27
186c		75mm	Each	51.04
	10.0	STEEL WORK		
187	10.1	Structural steel work in single section fixed with or without connecting plate including cutting hoisting fixing in position and applying coat of approved steel primer complete.	Kg	51.05
188	10.2	Structural steel work riveted, bolted or welded in built up sections , trusses and frmaned work including cutting hoisting fixing in position and applying a priming coat of approved steel primer all complete.	Kg	54.05
189	10.3	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5 mm size with top and bottom rail of T-iron 40x40x6 mm with 40mm dia steel pulley completee with bolts and nuts locking arrangement , stoppers, handles, including a priming coat of steel primer	Sq.M	3322.83
190	10.5	Providing and fixing 1mm thick M.S sheet door with frame of 40x40x6mm angle iron and 3mm M.S gusset paltes at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.	Sq.M	2050.38
	10.5.1	Using M.S angle 40x40x6 mm for diagonal braces		
191	10.5.2	Providing and fixing 1mm thick M.S sheet door with frame of 40x40x6mm angle iron and 3mm M.S gusset paltes at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.		
		Using M.S flats 30x6 mm for diagonal braces	Sq.M	1950.35
192	10.6	Supplying and fixing of rolling shutters of approved make and made of required M.S laths interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets side guides and arrangements for inside and outside locking with push and pull operation complete including the cost of providing and fixing necessary 27.5CM long wire spring s grade No-2 and M.S top cover of required thickness for rolling shutters		
	10.6.1	80x1.25 M.S lathe with 1.25mm thick top cover	Sq.M	3338.43
193	10.7	Providing and fixing of Ball bearing for rolling shutter	Each	205.48
194	10.9	Extra for providing rolling shutters manufactured of 8mm dia M.S bar instead of laths as per approved by Engineerin Charge. (area of grill to be measured)	Sq.M	348.45
195	10.13	Providing and fixing of T iron frames for doors windows and ventilators of mild steel TEE section , joints and mitred and welded with 15x3mm lugs , 10CM long embedded in cement concrete blocks 15x10x10 CM of CC 1:3:6 (1 cement : 3 sand : 6 coarse aggregate) or with wooden plugs and screws or with dash fastener or rawl plug and screw or fixing with clips or with bolts and nuts as required including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.	Kg	62.36
196	10.14	Providing and fixing pressed steel door frames conforming to IS 4351 manufactured from commercial mild steel sheet of 1.25mm thickness including hinges, jambs, lock jamb, bead and if required angle threshold of mild steel angle section of 50x25mm or base tie of 1.25mm pressed mild steel welded or rigidly fixed together by mechanical means, adjustablelugs with split end tail to each jamb including steel butt hinges 2.5mm thick with mortar guards, lock strike -plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer in charge:		
196a	10.14.1	Profile B	RM	345.58
196b	10.14.2	Profile C	RM	345.58



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197	10.15	Providing and fixing M.S tubular frames for doors, windows, ventilators and cupboard with Ltype section made of 1.60mm thick M.S sheet joints mitred and welded and grinded finish with profiles of required size with 15x3mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm of CC 1:3:6 (1 cement : 3 sand: 6 coarse aggregate) or with wooden plugs and screws or with dash fastener or rawl plug and screw or fixing with clips or with bolts and nuts as required including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.	Kg	104.97
198	10.16	Steel work in built up tubular trusses including cutting , hoisting fixing in position and applying a priming coat of approved steel primer welded and bolted including special shaped washers etc complete		
	10.16.1	Hot finished welded type tubes	Kg	98.46
199		Steel work in built up tubular trusses including cutting , hoisting fixing in position and applying a priming coat of approved steel primer welded and bolted including special shaped washers etc complete		
	10.16.2	Hot finished Seam less type tubes	Kg	98.46
200	10.17	Providing and fixing of M.S fan clamps of type I or II of 16mm dia MS bar bent to shape with hooked ends in RCC slabs, beams during laying including painting the exposed portion of loop, all as per standard design complete.	Each	91.90
201	10.20	Providing and fixing of bolts including nuts and washer complete	Kg	59.53
202	10.22	Welding by gas or electric plant including transportation of plant at site etc complete	Cm	2.04
203	10.23	Providing and fixing of bright finished brass casement window fasteners or peg stays to windows/ ventilators with necessary welding and machine screws etc complete	Each	90.51
204	10.24	Providing and fixing of bright finished brass casement window handles/spring catch to windows/ ventilators with necessary welding and machine screws etc complete	Each	90.51
205	10.25	Steel work welded in built up section /framed work including cutting hoisting fixing in position and applying a priming coat of approved steel primer using steel etc as required.		
	10.25.1	In stringers, traeds, landing etc of stair cases including use of chequed plates wherever required all complete	Kg	59.43
206	10.25.2	Steel work welded in built upsection/ framed work including cutting hoisting fixing in position and applying a priming coat of approved steel primer using structural steel etc as required below in grating frames guard bar ladder railings brackets gates and similar works in grating , frames guard bar railing brackets gates and similar works	Kg	67.59
207	10.26	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing , balcony railing and staircases railing including applying priming coat of approved steel primer		
	10.26.1	MS tube	Kg	86.16
		MS tube	RM	310.99
208	10.26.2	ERW Tube	Kg	93.39
		ERW Tube	RM	306.29
209		Providing and fixing ISI marked steel glazed doors, windows and ventilators of standard rolled steel sections, (as per IS 1038 with Z or L section)joints mitred and welsed with 15x3 mm lugs, 10cm long, embedded in cement concrete blocks 15x10x10 CM of 1:3:6 (1 cement: 3 Sand: 6 graded stone aggregate 20mm nominal size) or with wooden plugs and screw or rawl plugs and screws or with fixing clipsor with bolts and nuts as required, including providing and fixing of glass panes with glazing clips and special metal sash putty of approved make complete including applying a priming coat of approved steel primer, excluding the cost of metal beading and including other fitting (stay ,handle),necessary hinges or Pivots as required.	Sq.M	1927.21
210		Providing and fixing 1.25mm thick G.I sheet door with frame of 40x40x6mm angle iron and 3mm M.S gusset paltes at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.		
		Using M.S flats 30x6 mm for diagonal braces	Sq.M	1950.34
211		Providing and fixing hand rail of approved size by welding etc. to steel ladder railing , balcony railing and staircases railing including applying priming coat of approved steel primer		
		Stainless steel Tube of 302/202 grade	RM	1303.95
		Stainless steel Tube of 302/202 grade	Kg	397.59
	11.0	FLOORING WORK		
212	11.1	Brick on Edge flooring with bricks of class designation 75 including cement slurry etc. complete in cement mortar with F.P.S bricks		
	11.1.1	1:4 cement Mortar (1 cement : 4 sand)	Sq.M	427.46
213	11.1.2	Brick on Edge flooring with bricks of class designation 75 including cement slurry etc. complete in cement mortar with F.P.S bricks		
		1:6 cement Mortar (1 cement : 6 sand)	Sq.M	391.63
214 (A)	11.2	Dry brick on edge flooring in required pattern with bricks of class designation 75 on a bed of sand including filling joints with river sand (with F.P.S bricks) complete.	Sq.M	324.07



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214(B)		Brick flat soaling with bricks of class designation 75 including sand for filling complete with F.P.S bricks	Sq.M	198.56
215	11.3	cement concrete flooring 1:2:4 (1 cement : 2 sand: 4 coarse aggregate) finished with a floating coat of neat cement including cement slurry , but excluding the cost of nosing of steps etc. complete		
		40mm thick with 20mm nominal size stone aggregate	Sq.M	237.98
216	11.6	cement plaster skirting (Upto 30CM height) with cement mortar 1:3(1 cement : 3 Sand) finished with floating coat of neat cement.		
		18mm thick	Sq.M	189.16
217	11.7	cement concrete Pavement with 1:2:4 (1 cement : 2 sand: 4 coarse aggregate) including finishing complete	Cum	4118.57
218	11.8	Extra for making chequers of approved pattern on cement concrete floors steps landing pavement etc.	Sq.M	16.62
219	11.9	40mm thick marble chips flooring rubbed and polished to granolithic finish , under layer of 34mm thick cement concrete 1:2:4 (1 cement : 2 sand:4 stone aggregate) and top layer 6mm thick with white, black chocolate, grey,yello, green marble chips of sizes from 1mm to 4mm nominal size laid in cement marble mix 3:1 (3 cement: 1 marble powder) by weight in proprtion of 4:7 (4 cement marble powder mix: 7 marble chips) by volume including cement slurry etc complete		
		Dark shade pigment with ordinary cement	Sq.M	465.11
220	11.11	40mm thick marble chips flooring rubbed and polished to granolithic finish , under layer of 28mm thick cement concrete 1:2:4 (1 cement : 2 sand:4 stone aggregate) and top layer 12mm thick with white, black chocolate, grey,yello, green marble chips of sizes from 7mm to 10mm nominal size laid in cement marble mix 3:1 (3 cement: 1 marble powder) by weight in proprtion of 2:3 (2 cement marble powder mix: 3 marble chips) by volume including cement slurry etc complete		
		Dark shade pigment with ordinary cement	Sq.M	580.38
221	11.12	Marble chips skirting (upto 30 Cm height) rubbed and polished to granolithic finish , top layer 6mm thick with white black, chocolate, grey, yellow or green marble chips of sizes from 1mm to 4mm nominal size laid in cement marble mix 3:1 (3 cement: 1 marble powder) by weight in proprtion of 4:7 (4 cement marble powder mix: 7 marble chips) by volume including cement slurry etc complete		
		18mm thick with under layer 12mm thick cement plaster 1:3 (1 cement: 3 sand)	Sq.M	508.96
222	11.13	Providing and fixing glass strips in joints of terrazo/ cement concrete floors		
		40mm wide and 4 mm thick	RM	37.89
223	11.14	Extra for laying terrazo flooring on staircases treads not exceeding 30 Cm in width including cost of forming , nosing etc	Sq.M	17.74
224	11.16	Precast/ Chequered terrazo tiles 22mm thick with graded marble chips of size upto 12mm in floors and landing joined with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement : 4 sand)		
		light shade using White cement	Sq.M	760.42
225	11.17	Extra for laying terrazotiles staircases treads not exceeding 30 Cm in width	Sq.M	20.45
226	11.18	Precast / chequered terrazo tiles 22mm thick with graded marble chips of size upto 12mm in skirting and risers of step not exceeding 30 CM in height on 12mm thick cement plaster 1:3 (1 cement: 3 sand) joined with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete		
		light shade using White cement	Sq.M	905.38
227	11.22	Tile work in skirting , risers of step and dado (Upto 2 mtr height) over 12mm thick bed of cement mortar 1:3 (1 cement: 3 sand) and joined with grey cement slurry @3.3 Kg/Sq.M including pointing in white cement mixed with pigment of matching shade complete		
		Marble tile (polished) raj nagar 8mm thick	Sq.M	736.30
228	11.23	Marble stone flooring with 18mm thick marble stone (sample of marble shall be approved by the Engineer in Charge. Over 20mm (average) thick base of cement mortar 1:4 (1 cement : 4 sand) laid and joined with grey cement slurry including rubbing and polishing complete with :		
	11.23.1	Makrana white second Quality	Sq.M	1780.81
229		Marble stone flooring with 18mm thick marble stone (sample of marble shall be approved by the Engineer in Charge. Over 20mm (average) thick base of cement mortar 1:4 (1 cement : 4 sand) laid and joined with grey cement slurry including rubbing and polishing complete with :		
	11.23.2	Raj nagar White marble	Sq.M	1166.38
230	11.23.6	Marble stone flooring with 18mm thick marble stone (sample of marble shall be approved by the Engineer in Charge. Over 20mm (average) thick base of cement mortar 1:4 (1 cement : 4 sand) laid and joined with grey cement slurry including rubbing and polishing complete with :		
		Pink plain Marble	Sq.M	1246.52
231	11.23.5	Marble stone flooring with 18mm thick marble stone (sample of marble shall be approved by the Engineer in Charge. Over 20mm (average) thick base of cement mortar 1:4 (1 cement : 4 sand) laid and joined with grey cement slurry including rubbing and polishing complete with :		



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		Udipur green marble	Sq.M	1380.09
232	11.24	Extra for prefinished nosing to treads of steps of marble stone	RM	140.35
233	11.25	Extra for marble stone flooring in treads of steps and risers using single length upto 2.00 mtr	Sq.M	160.77
234	11.26	Kota stone slab flooring over 20mm average thick base laid and joined with greycement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1:4 (1 cement : 4 sand)		
		25mm thick	Sq.M	970.73
235	11.27	Kota stone slab 25mm thick in riser of steps skirting dado and pillars laid on 12mm (average) thick cement mortar 1:3 (1 cement : 3 sand) and joined with greycement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete		
		25mm thick	Sq.M	917.30
236	11.31	Extra for Prefinished nosing in in treads of steps of kota stone/ sand stone slab	RM	43.21
237	11.32	Extra for Kota stone / sand stone in treads of steps and risers using length upto 1.05mt	Sq.M	8.36
238	11.36	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS 15622 (thickness to be specified by the manufacture of approved make in all colours shade except burgundy, bottle green , black of any size as approved by engineer in Charge in skirting , risers of steps and dados over 12mm thick bed of cement mortar 1:3 (1 cement : 3 sand) and jointing with grey cement slurry @3.3 kg per Sq.M including pointing in white cement mixed with pigment of matching shade complete	Sq.M	735.92
239	11.37	Providing and laying ceramic glazed floor tiles 300x300mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS 15622 of approved make in colours such as white ivory grey fume red, brown laid on 20mm thick cement mortar 1:4 (1 cement : 4 sand) including pointing the joints with white cement and matching pigment etc complete.	Sq.M	802.67
240	11.38	Providing and laying ceramic glazed floor tiles 300x300mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS 15622 of approved make in colours shade except white ivory grey fume red, brown laid on 20mm thick cement mortar 1:4 (1 cement : 4 sand) including pointing the joints with white cement and matching pigment etc complete.	Sq.M	850.29
241	11.39	Providing and laying rectified ceramic glazed floor tiles 300x300mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS 15622 of approved make in colours shade such as white ivory grey fume red, brown laid on 20mm thick cement mortar 1:4 (1 cement : 4 sand) including pointing the joints with white cement and matching pigment etc complete.	Sq.M	794.85
242	11.4	Providing and laying rectified ceramic glazed floor tiles 300x300mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS 15622 of approved make in colours shade except white ivory grey fume red, brown laid on 20mm thick cement mortar 1:4 (1 cement : 4 sand) including pointing the joints with white cement and matching pigment etc complete.	Sq.M	842.47
243	11.41	Providing and laying Vitrified floor tiles in different sizes (thickness to be specified by the manufacturer)with water absorption less than 0.08% and conforming to IS 15622 of approved make in all colours shade laid on 20mm thick cement mortar 1:4 (1 cement : 4 sand) including pointing the joints with white cement and matching pigment etc complete.		
	11.41.1	Sizes of Tile 50x50xCm	Sq.M	938.20
244		Providing and laying Vitrified floor tiles in different sizes (thickness to be specified by the manufacturer)with water absorption less than 0.08% and conforming to IS 15622 of approved make in all colours shade laid on 20mm thick cement mortar 1:4 (1 cement : 4 sand) including pointing the joints with white cement and matching pigment etc complete.		
	11.41.2	Sizes of Tile 60x60xCm	Sq.M	997.73
245		Providing and laying Vitrified floor tiles in different sizes (thickness to be specified by the manufacturer)with water absorption less than 0.08% and conforming to IS 15622 of approved make in all colours shade laid on 20mm thick cement mortar 1:4 (1 cement : 4 sand) including pointing the joints with white cement and matching pigment etc complete.		
	11.41.3	Sizes of Tile 80x80Cm	Sq.M	1116.79
246		Providing and laying Vitrified floor tiles in different sizes (thickness to be specified by the manufacturer)with water absorption less than 0.08% and conforming to IS 15622 of approved make in all colours shade laid on 20mm thick cement mortar 1:4 (1 cement : 4 sand) including pointing the joints with white cement and matching pigment etc complete.		
	11.41.4	Sizes of Tile 100x100xCm	Sq.M	1294.16
247	11.42	Deduct for not using 20mm thick cement mortar 1:4 (1 cement : 4 sand) bedding in laying of floor tiles	Sq.M	259.37
248	11.43	Fixing glazed /ceramic /vitrified floor tiles with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477 using 5 kg Adhesive per Sq.M of tile area in average of 3mm thick ness	Sq.M	315.63



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249		Providing and fixing 1st quality ceramic glazed wall tiles (Boarder tiles) conforming to IS 15622 (thickness to be specified by the manufacture of approved make in all colours shade with printed series of any size as approved by engineer in Charge in skirting , risers of steps and dados over 12mm thick bed of cement mortar 1:3 (1 cement : 3 sand) and jointing with grey cement slurry @3.3 kg per Sq.M including pointing in white cement mixed with pigment of matching shade complete	RM	60.61
250(A)		Chequred precast cement concrete tiles 22mm thick in foot path and courtyard jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement : 4 sand)		
		light shade using White cement	Sq.M	711.46
250(B)		Providing and laying 8mm thick chequred design tiles for steps riser (ANTI SKID designer) floor tiles (Ultra/pavit/Durocon) 300x300mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS 15622 of approved make in colours shade except white ivory grey fume red, brown laid on 20mm thick cement mortar 1:4 (1 cement : 4 sand) including pointing the joints with white cement and matching pigment etc complete.	Sq.M	828.73
250(C)		Chequred precast cement concrete tiles 22mm thick DESIGNER TILE (ULTRA/ DUROCON/ EQUIVALENT) in foot path and courtyard jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement : 4 sand)		
		Ordinary cement without any pigment	Sq.M	605.21
251		Chequred precast cement concrete tiles 22mm thick in foot path and courtyard jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement : 4 sand)		
		Ordinary cement without any pigment	Sq.M	614.17
252		Providing and fixing of vinyl flooring 1.5mm thick on existing floor after through cleaning and providing uniform coat of approved adhesive as per direction of Engineer in Charge		
252a		1.5mm thick	Sq.M	584.35
252b		2.0mm thick	Sq.M	733.84
253		Providing fixing and laying 80mm thick hydraulic compressed precast inter locking block of I shape or any other approved shape with approved colour , size over 100mm thick layer including excavation and filling upto desired level and spreading fine sand over paved blocks and compacting including cost of material transporting to the site , unloading stacking etc all complete.	Sq.M	451.90
		12.0 ROOFING		
254	12.1	Providing corrugated G.S sheet roofing including vertical/ curved surface fixed with polymer coated Jor L hooks , bolts, and nuts 8mm dia with bitumen and GI limpet washers or with G.I limpet washer filled with white lead and including a coat of approved steel primer and two coats of approved paint on overlapping of sheet complete up to pitch in horizontal/ vertical or curved surfaces) excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required		
		1mm thick with Zinc coating not less than 275Gm/Sq.M	Sq.M	803.50
255	12.4	Providing ridges or hips of width 60CM over all width plain G.S sheet fixed with polymer coated J or L hooks , bolts and nuts 8mm dia G.I limpet and bitumen washers complete		
		0.8mm thick with Zinc coating not less than 275Gm/Sq.M	RM	421.41
256	12.5	Providing valleys of 90CM wide overall in plain G.S sheet fixed with polymer coated J or L hooks bolts and nuts 8mm dia . G.I limpet and bitumen washers complete:		
		1.60mm thck with Zinc coating not less than 350gm/Sq.M	RM	855.83
257	12.7	Providing and fixing 15Cm wide 45CM overall semi circular plain G.S sheet gutter with iron brackets 40x3mm size , bolts, nuts and washers etc . Including making necessary connections with rain water pipes complete.		
		0.8mm thck with Zinc coating not less than 275gm/Sq.M	RM	381.63
258	12.8	Providing non asbestos high impact polypropylene reinforced cement 6mm thick corrugated sheets (as per IS 14871) roofing upto any pitch and fixing with polymer coated J or L hooks bolts and nuts 8mm dia GI plain and bitumen washer or with self drilling fastener and EPDM washers etc complete excluding the cost of purlins rafters and trusses corrugated sheets and including cutting to size and shape wherever required.	Sq.M	297.77
259	12.11	Extra for Providing and fixing wind tie of 40x6 mm flat iron Section	RM	94.49
260	12.12	Providing and fixing ridges and hips in non asbestos fibre cement high impact polypropelene reinforced roofing with suitable fixing accessories or self drilling fastener and EPDM washer etc. complete.		
		Corrugated serrated adjustable ridges	RM	338.47



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261	12.13	Providing and fixing non asbestos fibre cement high impact polypropelene reinforced roofing accessories with polymer coated J or L hooks , bolts and nuts and GI seam bolts and nuts GI plain and Bitumen washers or with self drilling fastener and EPDM washer etc. complete.		
		Ridge Finials	Pair	114.98
262	12.20	Providing and laying pressed clay tiles (as per approved pattern) 20mm nominal thickness and approved size) on roofs jointed with cement mortar 1:4 (1 cement: 4 sand) mixed with 2% integral water proofing compound laid over a bed of 20mm thick cement mortar 1:4 (1 cement : 4 sand) and finished neat complete	Sq.M	390.67
263	12.29	Providing and fixing false ceiling with 12mm thick plain/semi perforated or with design ceiling tiles of BWP type phenol formal dehyde synthetic resin bonded pressed particle board conforming to IS 3087 finished with a coat of aluminium primer on both sides and edges and two coats of synthetic enamel paint of approved quality on exposed face fixed to a grid made out of anodised aluminium (with 15microen anodic coating) T sections 35x15x1.5mm size main runners and cross runners 23.5x19x1.5mm fixed to main runners placed 600mm Centre to centre both ways so as to form a grid of 600mm Square . the frame work shall be suspended from ceiling by level adjusting hangers of 6mm MS rod fixed to roof slab by means of ceiling cleats. The suspenders shall be placed 600x1200 mm centre to centre including fixing to the frame with CP brace screws and applying a priming coat of zinc chromate yellow primer (aluminium frame work shall be paid separately)	Sq.M	246.46
264		Providing and fixing false ceiling with 12mm thick plain/semi perforated or with design ceiling tiles of BWP type phenol formal dehyde synthetic resin bonded pressed particle board conforming to IS 3087 finished with a coat of aluminium primer on both sides and edges and two coats of synthetic enamel paint of approved quality on exposed face fixed to a grid made out of anodised aluminium (with 15microen anodic coating) T sections 35x15x1.5mm size main runners and cross runners 23.5x19x1.5mm fixed to main runners placed 600mm Centre to centre both ways so as to form a grid of 600mm Square . the frame work shall be suspended from ceiling by level adjusting hangers of 6mm MS rod fixed to roof slab by means of ceiling cleats. The suspenders shall be placed 600x1200 mm centre to centre including fixing to the frame with CP brace screws and applying a priming coat of zinc chromate yellow primer (Including cost of aluminium frame work)	Sq.M	1080.65
265	12.38	Providing lead caulked joints to sand cast iron rain water pipes and fittings:		
265a	12.38.1	100mm dia pipes	Each	318.66
265b	12.38.2	150mm dia pipes	Each	463.51
266	12.40	Providing and fixing on wall face unplastiscid 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		
266a	12.40.1	75mm diameter	RM	200.75
266b	12.40.2	100mm diameter	RM	317.80
267	12.42	Providing and fixing on wall face unplastiscid 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		
267a	2.42.3.1	Single Tee With Door 75x75x75mm	Each	190.79
267b	2.42.3.2	Single Tee With Door 100x100x100mm	Each	271.99
267c	2.42.4.2	Single Tee Without Door 100x100x100mm	Each	271.99
267d	2.42.4.1	Single Tee Without Door 75x75x75mm	Each	190.79
267e	2.42.5.1	Bend 75mm dia	Each	120.90
267f	2.42.5.2	Bend 110mm dia	Each	177.15
267g	2.42.6.1	Shoe Plain) 75mm dia	Each	152.26
267h	2.42.6.2	Bend 110mm dia	Each	263.10
268	12.44	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15cm diameter and weighing not less than 440gms	Each	28.06



NIT ROURKELA--SCHEDULE OF RATES 2011-12

Sch. Sl.No	DSR Ref. No	Description Of Item	Unit	NIT Analyzed Rate 11-12
269	12.45	Providing and fixing at all height false ceiling including providing and fixing of frame work made of special sections power pressed from M.S sheet and galvanised in accordance with zinc coating of grade 350 as per IS 277 and consisting of angle cleats of size 25mm wide x 1.6mm thick with flanges of 22mm and 37mm at 1200mm centre to centre one flange fixed to the ceiling with dash fastener 12.5mm dia x 40mm long with 6mm bolts to the angle hanger of 25x25x0.55mm of required length, and other end of angle hanger being fixed with nut and bolts to G.I channels 45x15x0.9mm running at the rate of 1200mm centre to centre to which the ceiling section 0.5mm thick bottom wedge of 80mm with tapered flanges of 26mm each having clips of 10.5mm at 450mm centre to centre shall be fixed in a direction perpendicular to G.I channel with connecting clips made out of 2.64mm dia 130mm long G.I wire at every junction including fixing the gypsum board with ceiling section and perimeter channels of 0.5mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to walls/partition with the help of rawl plug at 450mm centre to centre with 25mm long drive all screw @ 230mm interval including jointing and fixing to a flush finish of tapered and square edges of the board with recommended filler, jointing tapes, finisher and two coats of primer suitable for board as per manufacturer specification and also including the cost of making opening for light fittings and grills, diffusers, cutouts made of frame of perimeter channels suitably fixed all complete as per drawing and specification and direction of Engineer in Charge but excluding the cost of painting with:		
		12.54mm thick tapered edge gypsum board conforming to IS 2095-Part-I	Sq.M	638.27
270	12.47	Providing and fixing of UV stabilised fibre glass reinforced plastic sheet roofing up to any pitch including fixing with polymer coated J or L hooks bolts and nuts 8mm dia G.I plain / Bitumen washers complete but excluding the cost of purlins, rafters, trusses etc. the sheets shall be manufactured out of 2400TEX panel roving incorporating minimum 0.3% Ultra -Violet stabiliser in resin system under approximately 2400 psi and hot cured, they shall be of uniform pigmentation and thickness with out air pockets and shall conform to IS 10192 and IS 1286, the sheets shall be opaque or translucent, clear or pigmented, textured or smooth as specified.		
	12.47.1	2mm thick corrugated (2.5" or 4.2" or 6" or stepdown (2" or 3" or 6") as specified.	Sq.M	878.26
271		Providing and fixing of UV stabilised fibre glass reinforced plastic sheet roofing up to any pitch including fixing with polymer coated J or L hooks bolts and nuts 8mm dia G.I plain / Bitumen washers complete but excluding the cost of purlins, rafters, trusses etc. the sheets shall be manufactured out of 2400TEX panel roving incorporating minimum 0.3% Ultra -Violet stabiliser in resin system under approximately 2400 psi and hot cured, they shall be of uniform pigmentation and thickness with out air pockets and shall conform to IS 10192 and IS 1286, the sheets shall be opaque or translucent, clear or pigmented, textured or smooth as specified.		
	12.47.2	2mm thick Flat	Sq.M	764.76
272	12.50	Providing and fixing of Precoated galvanized profile sheets (Size, shape and pitch of corrugation as 5% total thickness (TCT) Zinc coating 120gms as per IS 277 in approved by Engineer In Charge) 0.05mm 240Mpa mm steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18micron minimum to avoid scratches while transportation and should be supplied in single length upto 12.0mtr or as desired by Engineer in Chrg. The sheet shall be fixed using self drilling / self tapping screws of size 5.5x55mm) with EPDM seal or with polymer coated J or L Hooks, Bolts and Nuts 8mm dia with bitumen and G.I limpet washers filled with white lead complete upto any pitch in Horizontal /vertical or curved surfaces excluding the cost of purlins rafters and trusses and including cutting to size and shape wherever required.	Sq.M	447.52
273	12.51	Providing and fixing precoated galvanized steel sheet roofing accessories 0.50m +/- 5% total coated thickness (TCT) , zinc coating 120gms as per IS 277 in 240mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws with polymer coated J or L hooks , bolts and nuts or G.I seam bolts and nuts, G.I plain and bitumen washers complete		
	12.51.1	Ridges plain (500mm-600mm)	RM	488.38
274		Providing and fixing precoated galvanized steel sheet roofing accessories 0.50m +/- 5% total coated thickness (TCT) , zinc coating 120gms as per IS 277 in 240mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws with polymer coated J or L hooks , bolts and nuts or G.I seam bolts and nuts, G.I plain and bitumen washers complete		
	12.51.6	Gutter (600mm overall all girth)	RM	609.36



SCh. Sl.No	DSR Ref. No	Description Of Item	Unit	NIT Analyzed Rate 11-12
275		Providing and fixing of 6mm thick poly carbonate sheet roofing up to any pitch including fixing with polymer coated J or L hooks bolts and nuts 8mm dia G.I plain /Bitumen washers complete but excluding the cost of purlins, rafters, trusses etc. the sheets shall be manufactured out of poly carbonate sheet and polymer with Ultra -Violet stabiliser in resin system under approximately 2400 psi and hot cured,. they shall be of uniform pigmentation and thickness with out air pockets and shall conform to IS 14443: 1997 , the sheets shall be clear or pigmented, textured or smooth as specified. complete as per direction of Engineer in charge. (measurement done on Sq.m all materials and labour supplied by the agency)		
		6mm thick Flat	Sq.M	2037.61
276		Providing and fixing of G.I chain link fabric fencing of required width in mesh size of 50mmx50mm including strengthening with 2mm dia wire and nuts bolts and washers as required complete as per direction of Engineer in charge. made of GI wire of dia 4mm	Sq.M	445.75
VOLUME-II				
	13.0	FINISHING WORK		
277	13.1.1	12mm cement plaster of mix 1:4 (1 cement: 4 Sand)	Sq.M	84.84
278	13.1.2	12mm cement plaster of mix 1:6 (1 cement: 6 Sand)	Sq.M	72.96
279	13.2.1	15mm cement plaster of mix 1:4 (1 cement: 4 Sand) over rough side of half brick work	Sq.M	98.89
280	13.2.2	15mm cement plaster of mix 1:6 (1 cement: 6 Sand)over rough side of half brickwork	Sq.M	84.69
281	13.3.1	20 mm cement plaster of mix 1:4 (1 cement: 4 Sand)	Sq.M	120.83
282	13.3.2	20mm cement plaster of mix 1:6 (1 cement: 6 Sand)	Sq.M	102.34
283	13.7.1	12mm cement plaster finished with a floating coat of neat cement of mix 1:3 (1 cement: 3 Sand)	Sq.M	120.50
284	13.7.2	12mm cement plaster finished with a floating coat of neat cement of mix 1:4 (1 cement: 4 Sand)	Sq.M	108.61
285	13.8.1	15 mm cement plaster finished with a floating coat of neat cement of mix 1:3 (1 cement: 3 Sand)	Sq.M	136.86
286	13.8.2	15mm cement plaster finished with a floating coat of neat cement of mix 1:4 (1 cement: 4 Sand)	Sq.M	122.66
287	13.12	18mm cement plaster in two coats under layer of 12mm thick cement plaster 1:5 (1 cement:5 sand) and a top layer of 6mm thick cement plaster 1:3 (1 cement:3 sand) finished rough with spounge	Sq.M	127.36
288	13.16.1	6mm cement plaster of mix 1:3 (1 cement: 3 Sand)	Sq.M	68.54
289		6mm cement plaster of mix 1:4 (1 cement: 4 Sand)	Sq.M	62.59
290	13.18	Neat cement Punning	Sq.M	25.04
291	13.21	Extra for providing and mixing water proofing materials in cement plaster work in proportion recommended by the manufactureres.	Per bag of 50kg cement	110.15
292	13.22	Extra for plastering exterior walls of height more than 10m from ground level for every additional height of 3 mtr or part there of.	Sq.M	18.05
293	13.26	Providing and applying plaster of paris putty of 2mm thick ness over plastered surface to prepare the surface and even and smooth complete.	Sq.M	71.06
294		Providing and finishing wall surface with acrylic wall care putty (water based) of approved make (Birla or Equivalent) and finished smooth and even surface to receive painting including cost of scaffolding staging charges with all cost of materials taxes labour T&P etc complete	Sq.M	105.79
295	13.31.1	Pointing on brick with cement mortar 1:3 (1cement: 3 sand)	Sq.M	81.18
296		Pointing on brick with cement mortar 1:4 (1cement: 4 sand)	Sq.M	77.38
297	13.33.1	Pointing on stone work with cement mortar 1:3 (1cement: 3 sand)	Sq.M	125.60
298		Pointing on Stone work with cement mortar 1:4 (1cement: 4 sand)	Sq.M	122.46
299	13.37	White washing with KATNI lime to give an even shade		
299a	13.37.1	New work (Three or more coat	Sq.M	10.01
299b	13.38	on walls one coat	Sq.M	4.08
300	13.39	Colour washing such as green blue or buff to give an even shade		
300b		New work (Two or More coat with a base coat of white washing with lime	Sq.M	13.08
301	13.40	Distempering with dry distemper of approved brand and manufacturer (two or more coats) and of required shade on new work over and including priming coat of of whitening to give an even shade	Sq.M	38.40
302	13.41	Distempering with oil bound washable distemper of approved brand and manufacturer to give an even shade		
		New Work(Two or more coats) over and including priming coat with cement primer	Sq.M	62.65



NIT ROURKELA--SCHEDULE OF RATES 2011-12

SCh. Sl.No	DSR Ref. No	Description Of Item	Unit	NIT Analyzed Rate 11-12
303	13.42	Distemping with 1st quality acrylic distemper (readymade) of approved manufacture and of required shade and colour complete, as per manufacturer's specification. New Work(Two or more coats)	Sq.M	32.73
304	13.43	Applying one coat of cement primer of approved brand and manufacturer on wall surface Cement primer	Sq.M	26.91
305	13.44	Finishing walls with water proofing cement paint of required shade New work (two or more coats applied @3.84 Kg /Sq.M)	Sq.M	36.13
306	13.45	Finishing walls with textured exterior paint of required shade: New work (two or more coat applied @3.28kg/10 Sq.M) over and including base coats of water proofing cement paint applied @ 2.2 Kg/10 Sq.M	Sq.M	111.83
307	13.46	Finishing wall with acrylic smooth exterior paint of required shade: New work (two or more coat applied @1.67kg/10 Sq.M) over and including base coats of water proofing cement paint applied @ 2.2 Kg/10 Sq.M	Sq.M	64.09
308	13.47	Finishing walls with premium acrylic smooth exterior paint with silicone additive of required shade New work (two or more coat applied @1.43kg/10 Sq.M) over and including base coats of water proofing cement paint applied @ 2.2 Kg/10 Sq.M	Sq.M	69.05
309	13.48	Finishing walls with deluxe multi surface paint system for interiors and exteriors using primer as per manufacturers specifications:		
309a	13.48.1	New work (two or more coat applied @1.25lit/10 Sq.M) over and including one coat of special primer applied @0.75 Ltr/10 Sq.M	Sq.M	80.55
		Finishing walls with deluxe multi surface paint system for interiors and exteriors using primer as per manufacturers specifications:		
309 b	13.48.2	New work (One or more coat applied @1.25lt/10 Sq.M) over and including one coat of special primer applied @0.75 Ltr/10 Sq.M	Sq.M	75.36
310	13.50.1	Applying priming coat with ready mixed Pink or gray primer of approved brand and manufacturer on Wood work (Hard and soft Wood)	Sq.M	25.33
311	13.50.2	Applying priming coat with ready mixed Aluminium primer of approved brand and manufacturer or resinous wood and plywood.	Sq.M	25.52
312	13.50.4	Applying priming coat with ready red oxide zinc chromate primer of approved brand and manufacturer on steel galvanised iron/ stell works.	Sq.M	23.36
313	13.56	Painting (two or more coats) on rain water soil and vent pipes and fittings with Synthetic enamel paint of approved brand and manufacture and required colour over a priming coat of approved steel primer on new work		
313a	13.56.1	100mm dia pipe	RM	24.57
313b	13.56.2	150mm dia pipe	RM	36.66
314	13.59	Coal taring two coats on new work using 0.16 and 0.12 litre tar per Sq.M in the first coat and secon coat respectively	Sq.M	29.98
315	13.60	Wall painting with plastic emulsion paint of approved brand manufacture to give an even shade Two or more coats on new work	Sq.M	60.85
316	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work	Sq.M	48.96
317	13.63	Painting with aluminium enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work	Sq.M	50.71
318	13.64	Painting with acid proof paint of approved brand and manufacture to give an even shade: Two or more coats on new work	Sq.M	48.29
319	13.65	Painting with black anti-corosive bitumastic paint of approved brand and manufacture to give an even shade Two or more coats on new work	Sq.M	36.45
320	13.67	Varnishing with Varnish of approved brand and manufacture :		
320a	13.67.1	Two or more coats of glue sizing with copal varnish over an under coat of flatting varnish. Varnishing with Varnish of approved brand and manufacture :	Sq.M	75.44
320b	13.67.2	Two or more coats of glue sizing with spar varnish over an under coat of flatting varnish.	Sq.M	77.46
321	13.68	French spirit polishing : two or more coats on new works including a coat of wood filler.	Sq.M	128.97
322	13.69	Polishing on wood work with ready made wax polish of approved brand and manufacture: New work	Sq.M	49.28
323	13.70	Floor polishing on masonry or concrete floors with wax polish of approved brand and manufacture	Sq.M	22.21
324	13.71	Lettering with black japan paint of approved brand and manufacture	1 letter of 1 Cm Height	1.43



NIT ROURKELA--SCHEDULE OF RATES 2011-12

SCh. Sl.No	DSR Ref. No	Description Of Item	Unit	NIT Analyzed Rate 11-12
325	13.76	Forming groove of uniform size from 12x12mm to 25x15mm in plastered surface as per approved pattern using wooden battens , nailed to the under layer including theremoval of wooden batten, repairs to the edges of plaster panel and finishing the groove complete as per specification and direction of Engineer in Charge	RM	45.03
326		Providing and plastering 6mm thick cement plaster in CM 1:4 with admixture of plastocrete or equivalent (@100ml/bag of cement) and with painting of two coats of SIKA LATEX or equivalent (150ml/Sq.M) over the plastered surface before plastering including racking out the ceiling and painting two coats of ARMATEX or Equivalent over corroded steel and complete as per direction of Engineer in Charge.	Sq.M	165.01
327		15 mm thick cement plaster in CM 1:4 with chemical admixture for water proofing such as PLASTOCRETE PLUS/CICOCRETE/Equivalent as per manufacturers manual for out side plastering including racking out and cleaning the wall surface with wire brush and painting of SIKA LATEX two coats(@ 150ml/Sq.M) before plastering complete as per direction of Engineer In charge. Including all material and labour for racking and plastering.	Sq.M	148.89
	14.0	REPAIRS TO BUILDING		
328	14.1	Repairs to plaster of thickness 12mm to 20mm in patches of area 2.5Sq.Mand under including cutting the patches in proper shape racking out joints and repairing and plastering the surface of the wall s complete including disposal of rubbish to the dumping ground with in 50mtr lead		
328a		Cement Mortar 1:4	Sq.M	125.84
		Repairs to plaster of thickness 12mm to 20mm in patches of area 2.5Sq.Mand under including cutting the patches in proper shape racking out joints and repairing and plastering the surface of the wall s complete including disposal of rubbish to the dumping ground with in 50mtr lead		
328b		Cement Mortar 1:6	Sq.M	110.73
329	14.2	Fixing chowkhats in existing opening including embedding chowkhats in floors or walls cutting masonry for hold fasts embedding hold fasts embedding hold fast in cement concrete blocks with cement concrete 1:3:6 (1 cement:3sand: 6 coarse aggregate) painting two coats of approved wood /steel preservatives to sides of thchowkhats and making good damages to walls and floors as required complete including disposal of rubbish to the dumping ground within 50mtr lead:		
329a	14.2.1	Door chowkhat	Each	403.09
329b	14.2.2	Window chowkhat	Each	246.48
329c	14.2.3	Clearstorey Window Chowkhats	Each	140.25
330	14.3	Fixing chowkhat in existing opening in Brick/RCC wall with hold fastener/Dash fastener/Chemical fastener of appropriate size (3 Nos each vertical member of door chowkhat and 2 nos on each vertical and 1 nos on each horizontal member of window chowkhat) including cost of fasteners	Each	95.99
331	14.4	Making opening in brick masonry including dismantling in floor or walls by cutting masonry and making good the damamges to the walls flooring and jambs complete to match existing surface including disposal of mulba /rubbish to the nearest dumping ground for door/window/clearstorey window	Sq.M	239.27
332	14.5	Renewing glass panes with Putty and nails wherever necessary:		
332a	14.5.1	Float glass panes of thickness 4mm	Sq.M	690.57
		Renewing glass panes with Putty and nails wherever necessary:		
332b	14.5.2	Float glass panes of thickness 5.0mm	Sq.M	754.45
332c		Float glass panes of thickness 8.0mm	Sq.M	1105.81
333	14.10	Refixing old glass panes with putty and nails	Sq.M	175.17
334	14.9	Renewal of old putty of glass panes (Length)	RM	13.47
335	14.12	Providing and fixing 16mm M.S Fan clamps of standard shape and size in existing R.C.C. slab including cutting chases and making good and painting exposed portion of the clamps complete	Each	142.92
336	14.17	Racking out joints in lime or cement mortar and repairing the surface for repointing or replastering including disposal of rubbish to the dumping ground within 50mtr lead.	Sq.M	11.93
337		Taking out wind ties from roof including cutting out rusted bolts, nuts etc and removing materials to any distance within compound and stacking and refixing of old tie with new fittings including painting two or more coatswith anticorrosive bitumastic paint of approved brand and manufacture over and including priming coat of ready mixed zinc chromate yellow primer of approved brand	RM	47.22
338	14.30	Providing and fixing M.S round or square bars with M.S flats at required spacing wooden frmaes of windows and clearstorey windows	Kg	55.17
339	14.42	White washing with KATNI lime to give an even shade		
339a	14.42.1	Old Work (Two or More coats)	Sq.M	6.05
339b	14.42.2	Old Work (one or More coats)	Sq.M	3.67
340	14.43	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repair to scratches etc complete	Sq.M	3.47



NIT ROURKELA--SCHEDULE OF RATES 2011-12

SCh. Sl.No	DSR Ref. No	Description Of Item	Unit	NIT Analyzed Rate 11-12
341	14.46	Removing dry or oil bound distemper , water proofing cement paint and the like by scrapping sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	Sq.M	4.57
342	14.45	Distemping with oil bound washable distemper of approved brand and manufacturer to give an even shade		
		Old work (one or more coat)	Sq.M	21.56
343	14.53	Wall painting with plastic emulsion paint of approved brand manufacture to give an even shade		
		One or more coat over old Work	Sq.M	39.35
344	14.54	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:		
		One or more coat over old Work	Sq.M	31.54
345	14.55	Painting with aluminium enamel paint of approved brand and manufacture to give an even shade:		
		One or more coat over old Work	Sq.M	31.89
346	14.56	Painting with acid proof paint of approved brand and manufacture to give an even shade:		
		One or more coat over old Work	Sq.M	31.14
347	14.57	Painting with black anti-corosive bitumastic paint of approved brand and manufacture to give an even shade		
		One or more coat over old Work	Sq.M	24.17
348	14.58	French spirit polishing :		
		One or more coat over old Work	Sq.M	66.24
349	14.59	Polishing on wood work with ready made wax polish of approved brand and manufacture:		
		old Work	Sq.M	25.00
350	14.69	Varnishing with Varnish of approved brand and manufacture :		
351a	14.69.1	One or more coats with copal varnish	Sq.M	30.11
		Varnishing with Varnish of approved brand and manufacture :		
352b	14.69.2	One or more coats with spar varnish .	Sq.M	33.46
352c	14.60	Re-Lettering with black japan paint of approved brand and manufacture	lLette r of 1 Cm height	0.91
353	14.63	Distemping with 1st quality acrylic distemper (readymade) of approved manufacture and of required shade and colour complete, as per manufacturer's specification.		
		New Work(Two or more coats)	Sq.M	19.25
354	14.65	Finishing walls with textured exterior paint of required shade:		
		New work (two or more coat applied @3.28kg/10 Sq.M)	Sq.M	95.37
355	14.66	Finishing wall with acrylic smooth exterior paint of required shade:		
		New work (two or more coat applied @1.67kg/10 Sq.M) on existing cement paint	Sq.M	47.61
	15.0	DISMANTLING		
356	15.2	Demolishing cement concrete manually/ by mechanical means including disposal of materials with in 50mtr lead as per direction of Engineer inCharge.		
356a	15.2.1	Cement concrete 1:3:6 or richer Mix	Cum	405.36
		Demolishing cement concrete manually/ by mechanical means including disposal of materials with in 50mtr lead as per direction of Engineer inCharge.		
356b	15.2.2	Cement concrete 1:4:8 or leaner Mix	Cum	249.75
357	15.3	Dismantling R.C.C. work, including stacking of steel bars and disposal of unservicable amaterials within 50mtr lead as per direction of Engineer incharge.	Cum	591.38
358	15.4	Demolishing R.B work manually/ by mechanical means including stacking of steel bars and disposal of unservicable materials within 50mtr lead as per direction of Engineer in Chare.	Cum	528.09
359	15.5	Extra for cutting reinforcement bars manually/ by mechanical means in R.C.C. or R.B work (Payment shall be made on the cross sectional area of R.C.C. or R.B work) as per direction of Engineer in Charge.	Sq.M	224.62
360	15.7	Demolishing brickwork manually/ by mechanical means including stacking of servicable materials and disposal of unservicable materials with in 50mtr lead as per direction of Engineer in Charge	Cum	342.07
361	15.9	Demolishing stone rubble masonry manually/ by mechanical means including stacking of servicable materials and disposal of unservicable materials with in 50mtr lead as per direction of Engineer in Charge		
		In cement Mortar	Cum	408.14
362	15.10	Dismantling dressed stone work ashlar stone work, marble work, Precast concrete work manually/ by mechanicall meas including stacking of servicable materials and disposal of unservicable materials with in 50mtr lead as per directuon of Engineer in Charge.		
		In cement Mortar	Cum	477.36



NIT ROURKELA--SCHEDULE OF RATES 2011-12

SCh. Sl.No	DSR Ref. No	Description Of Item	Unit	NIT Analyzed Rate 11-12
363	15.12	Dismantling doors windows and clearstorey windows (steelor wood shutter)including chowkaths architrave holdfasts etc. complete and stacking within 50mtr lead"		
363a	15.12.1	Of area 3 Sq.M and below	Each	69.57
363b	15.12.2	Of area beyond 3 Sq.M	Each	95.45
364	15.13	Taking out doors windows and clearstorey window shutters (Steel or Wood) including stacking within 50mtr lead:		
364a	15.13.1	Of area 3 Sq.M and below	Each	26.70
364b	15.13.2	Of area beyond 3 Sq.M	Each	35.52
365	15.14	Dismantling wood work in frames, trusses purlins and rafters upto 10mtr span and 5 mtr Height including stacking of the materials within 50mtr lead		
		Of cross sectional area 40 Square CM and above	Cum	851.83
366	15.18	Dismantling steel work in builtup sections in angle tees flats and channel including all gusset plates bolts nuts, cutting rivets welding etc including dismembering and stacking within 50mtr lead.		
		Of cross sectional area 40 Square CM and above	Kg	1.02
367	15.20	Extra for dismantling trusses rafters purlins etc of steel work for every additional height of one mtr or part there of beyond 5 mtrs		
		Of cross sectional area 40 Square CM and above	Kg	0.14
368	15.23	Dismantling tile work in floors laid in cement mortar including stacking materials within 50mtr lead		
		For thickness of tile above 10mm and upto 25mm	Sq.M	17.01
369	15.25	Dismantling stone slab flooring laid in cement mortar including stacking of servicable material and disposal of unservicable material within 50mtr lead.	Sq.M	44.55
370	15.26	Demolishing brick tiles covering in terracing including stacking of servicable materials and disposal of unservicable materials within 50mtr lead.	Sq.M	20.44
371	15.28	Dismantling roofing including ridges hips valleys and gutters etc and stacking the materials within 50mtr leadof		
371a	15.28.1	G.S.Sheets	Sq.M	30.35
371b	15.28.2	Asbestos Sheet	Sq.M	14.17
372	15.34	Dismantling and stacking within 50mtr lead , fencing posts or struts including all earth work and dismantling of concrete etc in base of :		
		R.C.C. Fence post	Each	55.37
373	15.36	Dismantling barbed wire or flexible rope in fencing including making rolls and stacking within the 50 mtr lead		
		IRON. Fence post	Kg	6.12
374	15.38	Dismantling expanded metals or IRC fabrics with necessary battens and beading including stacking the servicable materials within 50 mtr Lead	Sq.M	13.32
375	15.39	Dismantling wooden boarding in lining of wall and partition walls excluding supporting member but including stacking within 50mtr lead:		
		Thickness above 25mm upto 40mm	Sq.M	16.84
376	15.40	Dismantling precast concrete or stone slab in walls partition walls etc including stacking within 50mtr lead.		
		Thickness upto 50mm thick	Sq.M	49.72
377	15.41	Dismantling cement asbestos, celotax or other hard board ceiling or partition walls including stacking of servicable materials and disposal of unservicable materials within 50mtr lead.		
		Thickness upto 50mm thick	Sq.M	10.71
378	15.42	Dismantling of CI or asbestos rain water pipe with fittings and clamps including stacking the materials within 50m lead :		
378a	15.42.1	75mmto 80mm dia pipe	RM	12.57
378b	15.42.2	100mm to 110 mm dia pipe	RM	12.64
378c	15.42.3	150mm dia pipe	RM	13.39
379	15.43	Dismantling manually/ by mechanical means including stacking of servicable materials and disposal of unservicable materials with in 50mtr lead as per direction of Engineer in Charge:		
379a	15.43.1	Water Bound Macadam Road	Sq.M	37.51
379b	15.43.2	Bituminous Road	Sq.M	72.70



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380	15.44	Dismantling G.I pipes (External work) including excavation and refilling of trenches after taking out the pipes manually /by mechanical mean including stacking of pipes within 50mtr lead as per direction of Engineer in Charge:		
380a	15.44.1	15mm to 40mm dia nominal bore	RM	27.01
380b	15.44.2	Above 40mm nominal bore	RM	31.17
381	15.45	Dismantling C.I pipes including excavation and refilling of trenches after taking out the pipes manually /by mechanical means , breaking lead joints, melting of lead and making into blocks including stacking of pipes within 50mtr lead as per direction of Engineer in Charge:		
381a	15.45.1	Upto 150mm diameter	RM	69.65
381b	15.45.2	Above 150mm upto 300MM dia	RM	92.19
381c	15.45.3	Above 300mm diameter	RM	124.23
382	15.49	Taking out C.I cover with frame from R.C.C. top slab of manholes of various sizes including demolishing of R.C.C. work manually / by mechanical mean and stacking of usefule materials near the site and disposal of unservicable materials within 50mtr lead as per direction of Engineer in Charge.	Each	120.58
383	15.52	Dismantling of flushing cistern of any size including stacking of useful materials near the site and disposal of unservicable materials within 50mtr lead.	Each	179.38
384	15.53	Dismantling of C.I sluice valve including stacking of useful materials within a lead of 50mtr		
384a	15.53.1	Upto 150mm diameter	Each	54.18
384b	15.53.2	above 150mm diameter	Each	221.44
385	15.56	Dismantling old plaster or skirting racking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50mtr lead	Sq.M	8.99
386	15.57	Dismantling aluminium /gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unservicable materials and stacking of servicable materials within 50mtr lead as directed by Engineer in Charge.	Sq.M	10.72
	16.0	ROAD WORK		
387	16.1	Preparation and consolidation of sub grade with power road roler of 8-12tonne capacity after excavating earth to an average of 22.5Cm depth , dressing to camber and consolidation with road roller including making good the undulations etc and rerolling the sub grade and disposal of surplus earth lead upto 50mtrs	Sq.M	38.45
388	16.3	Supplying and stacking of Aggregate at Site		
388a	16.3.1	Above 53mm upto 90mm size stone aggregate	Cum	1496.72
388b	16.3.3	53mm to 22.4mm size stone aggregate	Cum	1558.28
388c	16.3.10	Moorum	Cum	508.27
389	16.4	Laying , spreading and compacting stone aggregate of specified size to WBM specification including spreading in uniform thickness, hand packing, rolling with 3wheeled road / vibratory roller 8-10 tonne in stages to prpoer grade and camber applying and brooming requisite type of screening/ binding materials to fillup interstics of coarse aggregate watering and compacting to required density.	Cum	141.40
390	16.9	Scarifying metalled (water bound) road surface including disposal of rubbish lead upto 50m and consolidation of the aggregate received from scarifying with power roller of 8 tonne to 10 tonne capacity.	Sq.M	3.75
391		Supplying at Site: R.C.C. standard posts /Struts/rails/Pales of Mix 1:1.5:3 (1 cement: 1.5 sand: 3 coarse aggregate) with wooden plugs or 6mm bar nibs, wherever required as per drawing and direction of Engineer in Charge cost of earth work and concrete work to be paid separately)	Each	342.82



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392	16.17	Fencing with R.C.C post placed at required distance, embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post one side only, provided with horizontal lines and two diagonals of barbed wire 14.5 kg/100 metres (minimum between two posts fitted and fixed with G.I staple on wooden plugs or G.I binding wire tied to 6mm bar nibs fixed while casting the post (Cost of R.C.C. post struts, earth work and concrete to be paid for separately):- payment to be made per metre cost of total length of barbed wire used	Rm	15.81
393	16.25	Surface dressing on new surface with paving bitumen of grade A-90/S-90 of approved quality using 2.25Kg of bitumen per Sq.M with 1.65Cum of stone chipping 13.2mm nominal size per 100 Sq.M of road surface including consolidation with road roller of 6-8 tonne capacity complete:	Sq.M	161.05
394	16.31	Providing and applying tack coat using bitumen emulsion (rapid setting) complying with IS 8887-1995, sparying the bitumen emulsion with mechanically operated spray unit, cleaning and preparation the existing road surface as per specifications:		
394a	16.31.1	On WBM@ 0.4Kg/Sq.M	Sq.M	24.33
		Providing and applying tack coat using bitumen emulsion (rapid setting) complying with IS 8887-1995, sparying the bitumen emulsion with mechanically operated spray unit, cleaning and preparation the existing road surface as per specifications:		
394b	16.31.2	On Bituminous surface @0.25Kg/Sq.M	Sq.M	16.49
395	16.32	2Cm premix carpet surfacing with 1.8Cum and 0.9Cum of stone aggregate of 13.22mm size and 11.2mm size respectively per 100 Sq.M and 52kg and 56 kg of hot bitumen per cum of stone chipping of 13.2mm and 11.2 mm size respetively including a tack coat with hot straight run bitumen including consolidation with road roller of 6-9 tonne capacity etc complete (Tack coat to be paid separately)		
		With paving asphalt 80/100 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt	Sq.M	140.65
396	16.33	2.5 Cm premix carpet surfacing with 2.25Cum and 1.12Cum of stone aggregate of 13.22mm size and 11.2mm size respectively per 100 Sq.M and 52kg and 56 kg of hot bitumen per cum of stone chipping of 13.2mm and 11.2 mm size respetively including a tack coat with hot straight run bitumen including consolidation with road roller of 6-9 tonne capacity etc complete (Tack coat to be paid separately)		
		With paving asphalt 80/100 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt	Sq.M	172.33
397	16.40	Providing and laying seal coat of premixed fine aggregate (passing 2.36mm and retained on	Sq.M	62.52
398	16.53	Providing and fixing concentrina coil fencing with required dia 600mm upto 3.0mtr height of wall with existing angle iron "Y" shaped placed 2.4m to 3.0mtr apart and 9horizontal R.B.T stud tied with G.I staple and G.I clips to retain horizontal including necessary bolts or G.I barbed wire tied to angle iron all complete as per direction of Engineer in Charge with reinforced barbed tape (R.B.T)/ spring core (2.5mm thick) wire high tensile strength of 165Kg/ Sq.MM with tape(0.52mm thick) of supreme make or equivalent and weight 43.478 Gm/ mtr (Cost of M.S angle, C.C. block shall be paid separately)	Rm	223.70
399	16.56	Providing and laying Dense bituminous concrete on prepared surface with specified grade ed stone aggregate for wearing course including loading of aggregate with FE loader, hot mixing of bitumen with filler and stone stone aggregate in hot mix plant, transporting the mixed materials by tippers to th pavers and lying the mixed materials with mechanical paver finisher fitted with electronic sensing device to the required level and grade and rolling with road rollers as per MORTH specification to achive the desired density and compaction but excluding cost of primer/tack coat		
		40/50mm compacted thickness with bitumen grade 60/70 @5.5% and lime @3% (percentage by weight of total mix)	Cum	10501.54
400	16.68	Providing and laying 60mm thick factory made cement concrete interlocking paver blocks of M-30 grade made by block making machine with strong vibratory compaction of approved size and design /shape laid in required colour and pattern over and including 50mm thick compacted bed of course sand , filling the joints with sand etc compleat as per direction of Engineer in Charge.	Sq.M	450.50
	17.0	SANITARY INSTALLATION		
401	17.1	Providing and fixing water closet squatting pan (Indian type W.C.Pan) with 100mm sand cast iron Por S trap , 10litr low level white P.V.C flushing cistern with manually controlled device (handle lever) conforming to IS 7231 with all fittings and fixtures complete including cutting and making good the walls and floors where ever required :		
		White Vitreous china orissa pattern W.C pan of size 580x440mm with integral type foot rests.	Each	3469.19
402	17.2	Providing and fixing white vitreous china pedestral type water closet s(European typeW.C.Pan)with seat lid, 10litr low level white P.V.C flushing cistern with manually controlled device (handle lever) conforming to IS 7231 with all fittings and fixtures complete including cutting and making good the walls and floors where ever required :		
		W.C.Pan with ISI marked White solid plastic seatand lid	Each	3701.49



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403	17.4	Providing and fixing White vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265mm sizes respectively with automatic flushing cistern with standard flush pipe and CP brass spreaders with brass union and G.I clamps complete including painting of Fittings and brackets cutting and making good the walls and floors wherever required: One urinal basin with 5litre white P.V.C automatic flushing cistern.	Each	3062.24
404	17.5	Providing and fixing White vitreous china flat back half stall urinal of size 580x380x350 mm with automatic flushing cistern with fittings standard size cpbrass flush pipe and CP brass spreaders with brass union and clamps (All in CP brass)with waste fitting as per IS 2556, Ci trap with outlet grating and other couplings in CP brass complete including painting of Fittings and brackets cutting and making good the walls and floors wherever required: Single half stall with 5litre white P.V.C automatic flushing cistern.	Each	7371.91
405	17.6	Providing and fixing one piece construction white vitreous china squatting plate with integral longitudinal flushing pipe, white P.V.C automatic flushing cistern with fittings standard size G.I flush pipe for back and front flush with standard spreader pipes with fittings, G.I clamps and CP brass coupling complete including painting of fittings and cuttings and making good the walls floors etc wherever required: Single squatting plate with 5litre PVC automatic flushing cistern	Each	3129.51
406	17.7	Providing and fixing of wash basin with C.I brackets, 15mm Cp brass pillar taps 32mm Cpbrass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:		
406a	17.7.1	White vitreous china wash basin size 630x450mm with pair of 15mm CP Brass	Each	3523.35
		Providing and fixing of wash basin with C.I brackets, 15mm Cp brass pillar taps 32mm Cpbrass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:		
406b	17.7.2	White vitreous china wash basin size 630x450mm withsingle 15mm CP Brass	Each	2796.30
		Providing and fixing of wash basin with C.I brackets, 15mm Cp brass pillar taps 32mm Cpbrass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:		
406c	17.7.3	White vitreous china wash basin size 550x400mm withsingle 15mm CP Brass	Each	2206.91
		Providing and fixing of wash basin with C.I brackets, 15mm Cp brass pillar taps 32mm Cpbrass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:		
406d	17.7.4	White vitreous china wash basin size 600x480mm withsingle 15mm CP Brass	Each	2787.66
407	17.8	Providing and fixing white vitreous china pedestral for wash basin completely recessed at the back for the reception of pipes and fittings.	Each	1197.19
408	17.9	Providing and fixing of kitchen sink with C.I brackets, CP brass chain with rubber plug, 40mm CP brass waste complete, including painting the fittings and brackets, cutting and making good the walls wherever required: White glazed fire clay kitchen sink of size 600x450x250mm	Each	4088.22
409	17.10	Providing and fixing of Stainless steel AISI304 (18/8) kitchen sink as per IS 13983 with C.I brackets, CP brass chain with stainless steel plug, 40mm CP brass waste complete, including painting the fittings and brackets, cutting and making good the walls wherever required:		
409a	17.10.1	Kitchen sink with drain board 510x1040 mm bowl depth 250mm	Each	8679.90
409b	17.10.2	Providing and fixing of Stainless steel AISI304 (18/8) kitchen sink as per IS 13983 with C.I brackets, CP brass chain with stainless steel plug, 40mm CP brass waste complete, including painting the fittings and brackets, cutting and making good the walls wherever required:		
409c	7.10.2.1	Kitchen sink without drain board 610x510 mm bowl depth 200mm	Each	6218.43
		Providing and fixing of Stainless steel AISI304 (18/8) kitchen sink as per IS 13983 with C.I brackets, CP brass chain with stainless steel plug, 40mm CP brass waste complete, including painting the fittings and brackets, cutting and making good the walls wherever required:		
409d	7.10.2.3	Kitchen sink without drain board 610x460 mm bowl depth 178mm	Each	3895.43
410	17.11	Providing and fixing white vitreous china laboratory sink with C.I brackets , CP brass chain with rubber plug 40mm CP brass waste and 40mm CP brass trap with necessary C.P brass unions complete including painting of fittings and brackets cutting and making good the wall wherever required: Size 600x450x200mm	Each	4146.30
411	17.7	Providing and fixing wash basin with CI brackets 15mm CP brass pillar taps ,32 mm CP brass waste of standard pattern , including painting of fittings and brackets cutting and making good the walls wherever require: 17.7.9 White Vitreous china surgeon type wash basin of size 660x460mm with single 15mm CP	Each	6039.86
412	17.13.1	Providing and fixing white vitreous china water closet squatting pan (Indian type) long pattern W.C pan of size 580mm	Each	842.56
413	17.13.2	Providing and fixing white vitreous china water closet squatting pan (Orissa pattern) long pattern Orissa pattern W.C pan of size 580x 440mm	Each	1394.28
414	17.15	Providing and fixing white vitreous china pedestral type (European type/Wash down type) Water closet pan	Each	1771.76



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415	17.17.2	Providing and fixing a pair of white vitreous china foot rests of standard pattern for squatting pan water closet: 250x125x25mm	Each	258.94
416	17.18.1	Providing and fixing PVC low level flushing cistern with manually controlled device (handle lever) conforming to IS 7231 with all fittings and fixtures complete. 10ltr Capacity white	Each	1079.99
417	17.20	Providing and fixing solid plastic seat with lid for pedestral type WC pan complete: white solid plastic seat with lid	Each	451.11
418	17.23	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 340x410x265 mm sizes respectively.	Each	778.61
419	17.24	Providing and fixing white vitreous china squatting plate urinal with integral rim longitudinal flush pipe	Each	1418.40
420	17.25.1	Providing and fixing of white vitreous china wash basin including making all connection but excluding the cost of fittings: flat back wash basin of size 630x450mm	Each	1467.33
421	17.25.2	Providing and fixing of white vitreous china wash basin including making all connection but excluding the cost of fittings: flat back wash basin of size 550x400mm	Each	886.58
422	17.25.3	Providing and fixing of white vitreous china wash basin including making all connection but excluding the cost of fittings: flat back wash basin of size 600x480mm	Each	1467.33
423	17.25.6	Providing and fixing of white vitreous china wash basin including making all connection but excluding the cost of fittings: Surgeon type wash basin of size 660x460mm	Each	4719.53
424	17.26	Providing and fixing of kitchen sink including making all connections but excluding the cost of fittings: White glazed fire clay sink of size 600x450x250mm	Each	3369.77
425	17.27	Providing and fixing of White vitreous china laboratory sink including making all connections but excluding the cost of fittings: size 600x450x250mm	Each	3311.69
426	7.28.1.1	Providing and fixing of PVC waste pipe for Sink or wash basin including PVC waste fittings complete : Semirigid pipe 32mm dia	Each	255.86
427	7.28.2.1	Providing and fixing of PVC waste pipe for Sink or wash basin including PVC waste fittings complete : Semirigid pipe 40 mm dia	Each	313.93
428	17.29	Providing and fixing of 100mm sand cast iron garting for gully trap	Each	39.68
429	17.31	Providing and fixing 600x450mm bevelled edge mirror of superior glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with CP brass screws and washers complete	Each	1057.20
430	17.33	Providing and fixing of 600x120x5mm glass self with edges round of supported on anodized aluminium angle frame with CP brass brackets and guard rail complete fixed with 40mm long screw, rawl plugs etc complete	Each	668.34
431	17.34.1	Providing and fixing of Toilet paper holder: CP brass	Each	723.88
431a	17.70.1	Providing and fixing of PTMT bottle trap for wash basin and sink Bottle trap 31mm single piece moulded with height of 270mm , effective length of tail pipe 260mm from the centre of the waste coupling 77mm breadth with 25mm minimum water seal , weighing not less than 260gms	Each	430.08
431b	17.70.2	Providing and fixing of PTMT bottle trap for wash basin and sink Bottle trap 38mm single piece moulded with height of 270mm , effective length of tail pipe 260mm from the centre of the waste coupling 77mm breadth with 25mm minimum water seal , weighing not less than 263gms	Each	464.93
432	17.72	Providing and fixing of PTMT Towel ring Circular shape 200mm dia with a minimum distanc eof 37mm from wall face with concealed fitting arrangement of approved quality and colours not less than 80 Gms	Each	186.17
433		Providing and fixing of CP towel rail complete with brackcket fixed to wooden cleats with CVp bras screw with concealed arrangement of approved make and brand and quality : 600mm x20mm dia CP Brass	Each	516.81
434		Providing and fixing CP bras Soap case of Approved make and quality	Each	298.23
435		Providing and fixing of CP brass Towel ring Circular shape 200mm dia with a minimum distanc eof 37mm from wall face with concealed fitting arrangement of approved quality	Each	313.93
436	17.71	Providing and fixing of PTMT liquid soap container 109 mm wide ,125mm high and 112mm distance form the wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour weighing not less than 105 Gm	Each	211.11
437	17.35	Providing and fixing Soil, waste and vent pipes (SAND CAST IRON (S&S) PIPE as per IS 1729		
437a	7.35.1.1	100mm dia	RM	482.70
437b	7.35.2.1	75mm dia	RM	372.56
437c		150mm dia	RM	868.86
438		Providing and fixing Soil, waste and vent pipes (Centrifugally cast iron PIPE as per IS 3989		
438a	7.35.1.2	100mm dia	RM	677.74
438b	7.35.2.2	75mm dia	RM	599.80



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438b		150mm dia	RM	894.61
439	17.36	Providing and filing the joints with spun yarn cement slurry and cement mortar 1:2 (1 cement : 2 sand) in SCI/CI pipes		
439a	17.36.2	100mm dia	Each	40.38
439b	17.36.1	75mm dia	Each	34.28
439c		150mm dia	Each	40.38
440	17.38	Providing and fixing bend of required degree with access door , insertion rubber washer 3mm thick , Boltsand nuts complete		
		Sand cast iron (S& S) pipe as per IS 1729		
440a	7.38.1.1	100mm dia	Each	726.54
440b	7.38.2.1	75mm dia	Each	458.55
440c		150mm dia	Each	1426.93
441		Centrifugal Cast Iron as per IS -3989		
441a	7.38.1.2	100mm dia	Each	991.36
441b	7.38.2.2	75mm dia	Each	604.90
441c		150mm dia	Each	1479.19
442	17.39	Providing and fixing plain bend of required degree		
		Centrifugal Cast Iron as per IS -3989		
442a	7.39.1.2	100mm dia	Each	503.53
442b	7.39.2.2	75mm dia	Each	314.52
442c		150mm dia	Each	828.75
443		Sand Cast Iron (S&S) as per IS -1729		
443a	7.39.1.1	100mm dia	Each	422.23
443b	7.39.2.1	75mm dia	Each	233.22
443c		150mm dia	Each	596.45
444	17.40	Providing and fixing heel rest sanitary bend		
		Sand Cast Iron (S&S) as per IS -1729		
444a	7.40.1.1	100mm dia	Each	451.27
444b	7.40.2.1	75mm dia	Each	331.95
445		Centrifugal cast iron pipe as per IS 3989		
445a	7.40.1.2	100mm dia	Each	503.53
445b	7.40.2.2	75mm dia	Each	302.91
446	17.41	Providing and fixing double equal junction of required degree with access door insertion rubber washer 3mm thick bolts and nuts complete		
	17.41.1	Sand Cast Iron (S&S) as per IS -1729		
446a	7.41.1.1	100x100x100x100mm dia	Each	712.60
446b	7.41.2.1	75x75x75x75mm dia	Each	448.10
447		Centrifugal cast iron pipe as per IS 3989		
447a	7.41.1.2	100x100x100x100mm dia	Each	886.83
447b	7.41.2.2	75x75x75x75mm dia	Each	477.13
448	17.42	Providing and fixing double equal Plain junction of required degree		
		Sand Cast Iron (S&S) as per IS -1729		
448a	7.42.1.1	100x100x100x100mm dia	Each	770.68
448b	7.42.2.1	75x75x75x75mm dia	Each	419.06
449		Centrifugal cast iron pipe as per IS 3989		
449a	7.42.1.2	100x100x100x100mm dia	Each	886.83
449b	7.42.2.2	75x75x75x75mm dia	Each	445.77
450	17.43	Providing and fixing single equal junction of required degree with access door insertion rubber washer 3mm thick bolts and nuts complete		
		Sand Cast Iron (S&S) as per IS -1729		
450a	7.43.1.1	100x100x100x100mm dia	Each	480.30
450b	7.43.2.1	75x75x75x75mm dia	Each	302.91
451		Centrifugal cast iron pipe as per IS 3989		
451a	7.43.1.2	100x100x100x100mm dia	Each	770.68
451b	7.43.2.2	75x75x75x75mm dia	Each	378.41
452	17.44	Providing and fixing Single equal Plain junction of required degree		
		Sand Cast Iron (S&S) as per IS -1729		
452a	7.44.2.1	100x100x100x100mm dia	Each	422.23
452b	7.44.2.1	75x75x75x75mm dia	Each	360.98
453		Centrifugal cast iron pipe as per IS 3989		
453a	7.44.1.2	100x100x100x100mm dia	Each	480.30
453b	7.44.2.2	75x75x75x75mm dia	Each	333.11
454	17.46	Providing and fixing Double Unequal Plain junction of required degree		
		Sand Cast Iron (S&S) as per IS -1729		
454a	7.46.1.1	100x100x75x75mm dia	Each	538.38
		Centrifugal Cast iron asp per IS 3989		
455	7.46.1.2	100x100x75x75mm dia	Each	757.90
456	17.45	Providing and fixing Double Unequal junction of required degree with access door insertion rubber washer 3mm thick bolts and nuts complete		
		Sand Cast Iron (S&S) as per IS -1729		
457	7.45.1.1	100x100x75x75mm dia	Each	596.45
		Centrifugal Cast iron asp per IS 3989		



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458	7.45.1.2	100x100x75x75mm dia Providing and fixing Single Unequal Plain junction of required degree	Each	828.75
	17.48	Sand Cast Iron (S&S) as per IS -1729		
459	7.48.1.1	100x100x75mm dia Centrifugal Cast iron asp per IS 3989	Each	422.23
460	7.48.1.2	100x100x75mm dia Providing and fixing Single Unequal junction of required degree with access door insertion rubber washer 3mm thick bolts and nuts complete	Each	551.15
	17.47	Sand Cast Iron (S&S) as per IS -1729		
461	7.47.1.1	100x100x75mm dia Centrifugal Cast iron asp per IS 3989	Each	497.73
462	7.47.1.2	100x100x75mm dia Providing and fixing 76mm offsets	Each	623.17
	17.53	Sand Cast Iron (S&S) as per IS -1729		
463		Sand Cast Iron (S&S) as per IS -1729		
463a	7.53.1.2	100mm dia	Each	268.06
463b	7.53.1.1	75mm dia	Each	158.88
464	17.53.2	Providing and fixing 114mm offsets		
464a	7.53.2.2	100mm dia	Each	351.38
464b	7.53.2.1	75mm dia	Each	271.23
465	17.53.3	Providing and fixing 152mm offsets		
465a	7.53.3.2	100mm dia	Each	440.14
465b	7.53.3.1	75mm dia	Each	340.25
466	17.54.1	Providing and fixing 75mm offsets Centrifugal Cast iron asp per IS 3989		
466a		100mm dia	Each	320.33
466b	7.54.1.1	75mm dia	Each	220.44
467		Providing and fixing 100mm offsets		
467a		100mm dia	Each	347.89
467b		75mm dia	Each	251.49
468	17.54.2	Providing and fixing 150mm offsets		
468a	7.54.2.2	100mm dia	Each	376.26
468b	7.54.2.1	75mm dia	Each	279.85
469	17.56	Providing and fixing Terminal Guard Centrifugal Cast iron asp per IS 3989		
469a	7.56.1.2	100mm dia	Each	194.57
469b	7.56.2.2	75mm dia	Each	177.47
470		Sand Cast Iron (S&S) as per IS -1729		
470a	7.56.1.1	100mm dia	Each	192.25
470b	7.56.2.1	75mm dia	Each	139.14
471	17.57	Providing and fixing Collar Centrifugal Cast iron asp per IS 3989		
471a	7.57.1.2	100mm dia	Each	202.70
471b	7.57.2.2	75mm dia	Each	146.11
472		Sand Cast Iron (S&S) as per IS -1729		
472a	7.57.1.1	100mm dia	Each	248.00
472b	7.57.2.1	75mm dia	Each	157.72
473	17.60	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors : Sand Cast Iron (S&S) as per IS -1729		
473a	7.60.1.2	100mm inlet 100mm outlet	Each	1004.41
473b	7.60.2.2	100mm inlet 75mm outlet	Each	772.11
474		Centrifugal Cast iron asp per IS 3989		
474a	7.60.1.1	100mm inlet 100mm outlet	Each	1120.56
474b	7.60.2.1	100mm inlet 75mm outlet	Each	1004.41
475	17.58	Providing lead caulked joints to sand cast iron/ Centrifugally cast (Spun) iron pipes and fittings of diameter		
475a	17.58.1	100mm dia	Each	318.66
475b	17.58.2	75mm dia	Each	279.26
476	17.6	Cutting chases in brick masonry walls for following diameter sand cast iron /centrifugally cast iron pipes and making good the same with cement concrete 1::6 (1 cement:3 sand: 6 graded stone aggregate) including necessary plaster and pointing in cement mortar 1:4 (1 cement: 4 Sand)		
476a	17.61.1	100mm dia	Each	176.10
476b	17.61.2	75mm dia	Each	125.74
477	17.65	Painting sand cast iron/centrifugally cast iron (spun) iron soil , waste vent pipes and fittings with paint of any colour such as chocolate grey buff etc over a coat of primer of approved quality for new work:		
477a	17.65.1	100mm dia	RM	30.77
477b	17.65.2	75mm dia	RM	23.39



NIT ROURKELA--SCHEDULE OF RATES 2011-12

SCh. Sl.No	DSR Ref. No	Description Of Item	Unit	NIT Analyzed Rate 11-12
478		Supplying and fixing and fittings of PVC pipes of approved brand (Finolex/Supreme) complete with fittings including cutting and making good the walls etc. as per direction of Engineerin Charge.		
478a		110mm dia Pipes	RM	302.61
478b		75mm dia pipes	RM	189.62
478c		50mm dia pipes	RM	137.86
478d		150mm dia Pipes	RM	438.83
479		Supplying and fixing and fittings of PVC door bend of approved brand (Finolex/Supreme) complete with fittings including cutting and making good the walls etc. as per direction of Engineerin Charge.		
479a		110mm dia Pipes	Each	222.66
479b		75mm dia pipes	Each	156.45
479c		50mm dia pipes	Each	144.84
479d		150mm dia Pipes	Each	394.56
480		Supplying and fixing and fittings of PVC plain bend of approved brand (Finolex/Supreme)complete with fittings including cutting and making good the walls etc. as per direction of Engineerin Charge.		
480a		110mm dia Pipes	Each	187.81
480b		75mm dia pipes	Each	136.71
480c		50mm dia pipes	Each	99.54
480d		150mm dia Pipes	Each	353.91
481		Supplying and fixing and fittings of PVC Por S trap of approved brand (Finolex/Supreme)complete with fittings including cutting and making good the walls etc. as per direction of Engineerin Charge.		
481a		110mm inlet and 110mm outlet dia trap	Each	394.21
481b		110mm inlet and 75mm outlet dia trap	Each	292.07
481c		110mm inlet and 75mm outlet dia nihani trap	Each	204.96
482		Supplying and fixing and fittings of PVC required degree junction or plain junction with access door of approved brand (Finolex/Supreme)complete with fittings including cutting and making good the walls etc. as per direction of Engineerin Charge.		
482a		110mm dia Pipes	Each	237.45
482b		75mm dia pipes	Each	169.85
482c		50mm dia pipes	Each	151.39
482d		150mm dia Pipes	Each	446.87
483		Supplying and fixing and fittings of PVC clamp with cost of screw and fixtures of approved brand (Finolex/Supreme) complete with fittings including cutting and making good the walls etc. as per direction of Engineerin Charge.		
483a		110mm dia Pipes	Each	45.08
483b		75mm dia pipes	Each	36.99
483c		50mm dia pipes	Each	27.75
483d		150mm dia Pipes	Each	84.46
484		Supplying and fixing and fittings of PVC vent cowl of approved brand (Finolex/Supreme)complete with fittings including cutting and making good the walls etc. as per direction of Engineerin Charge.	Each	
484a		110mm dia Pipes	Each	66.10
484b		75mm dia pipes	Each	57.97
484c		50mm dia pipes	Each	51.00
484d		150mm dia Pipes	Each	138.11
485		Supplying and fixing and fittings of PVC offset (of 74mm offsets) of approved brand (Finolex/Supreme)complete with fittings including cutting and making good the walls etc. as per direction of Engineerin Charge.		
485a		110mm dia Pipes	Each	190.28
485b		75mm dia pipes	Each	122.91
485c		50mm dia pipes	Each	0.00
485d		150mm dia Pipes	Each	538.73
	18.0	WATER SUPPLY		
486	18.7	Providing and fixing of chlorinated polyvinyl chloride (CPVC)pipes , having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamps at 1.00m spacing . This includes jointing of pipes fittings with one CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge(Internal work exposed on Wall)		
486a	18.7.1	15mm nominal bore	RM	146.77
486b	18.7.2	20mm nominal bore	RM	177.94
486c	18.7.3	25mm nominal bore	RM	240.52
486d	18.7.4	32mm dia nominal bore	RM	320.21
486e	18.7.5	40mm nominal bore	RM	450.35
486f	18.7.6	50mm nominal bore	RM	716.10



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SCh. Sl.No	DSR Ref. No	Description Of Item	Unit	NIT Analyzed Rate 11-12
487	18.8	Providing and fixing of chlorinated polyvinyl chloride (CPVC)pipes , having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamps at 1.00m spacing . This includes jointing of pipes fittings with one CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge(Concealed work includig cutting chases and making good the walls etc.)		
487a	18.8.1	15mm nominal bore	RM	239.19
487b	18.8.2	20mm nominal bore	RM	276.80
487c	18.8.3	25mm nominal bore	RM	356.68
487d	18.8.4	32mm dia nominal bore	RM	456.28
488	18.9	Providing and fixing of chlorinated polyvinyl chloride (CPVC)pipes , having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamps at 1.00m spacing . This includes jointing of pipes fittings with one CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge(External Work)		
488a	18.9.1	15mm nominal bore	RM	140.11
488b	18.9.2	20mm nominal bore	RM	168.04
488c	18.9.3	25mm nominal bore	RM	230.09
488d	18.9.4	32mm dia nominal bore	RM	304.08
488e	18.9.5	40mm nominal bore	RM	424.24
488f	18.9.6	50mm nominal bore	RM	689.99
488g	18.9.7	62.5mm nominal bore	RM	1249.43
488h	18.9.8	75mm nominal Bore	RM	1626.92
488i	18.9.9	100mm Nominal bore	RM	2320.06
489	18.10	Providing and fixing of G.I pipes complete with G.I fittings and clamps including cutting and making good the walls etc. Internal work (Exposed on wall)		
489a	18.10.1	15mm nominal bore	RM	225.41
489b	18.10.2	20mm nominal bore	RM	259.44
489c	18.10.3	25mm nominal bore	RM	350.98
489d	18.10.4	32mm dia nominal bore	RM	403.73
489e	18.10.5	40mm nominal bore	RM	462.21
489f	18.10.6	50mm nominal bore	RM	608.45
490	18.11	Concealed pipe including painting with anti corosive bitumastic paint, cutting chases and making good the wall		
490a	18.11.1	15mm nominal bore	RM	283.40
490b	18.11.2	20mm nominal bore	RM	315.03
490c		25mm nominal bore	RM	404.77
491	18.12	Providing and fixing of G.I pipes complete with G.I fittings and including trenching and refilling etc (External Work)		
491a	18.12.1	15mm nominal bore	RM	226.66
491b	18.12.2	20mm nominal bore	RM	258.78
491c	18.12.3	25mm nominal bore	RM	353.79
491d	18.12.4	32mm dia nominal bore	RM	410.11
491e	18.12.5	40mm nominal bore	RM	461.38
491f	18.12.6	50mm nominal bore	RM	603.80
491g	18.12.7	65mm nominal bore	RM	779.15
491h	18.12.8	80mm nominal Bore	RM	1019.75
491i		100mm Nominal bore	RM	1432.54
492	18.46	Providing and fixing of G.I Unions in G.I pipes including cutting and threading the pipe and amking long screw etc complete (New work)		
492a	18.46.1	15mm nominal bore	Each	99.30
492b	18.46.2	20mm nominal bore	Each	116.72
492c	18.46.3	25mm nominal bore	Each	131.82
492d	18.46.4	32mm dia nominal bore	Each	180.60
492e	18.46.5	40mm nominal bore	Each	215.45
492f	18.46.6	50mm nominal bore	Each	303.58
492g	18.46.7	65mm nominal bore	Each	506.84
492h	18.46.8	80mm nominal Bore	Each	681.07
492i		100mm Nominal bore	Each	907.56
493	18.13	Making connection of G.I distribution branch with G.I main of follwing sizes by providing and fixing tees including cutting and threading the pipes etc. complete		
493a	18.13.1	25to 40mm nominal bore	Each	291.93
493b	18.13.2	50to 100mm nominal bore	Each	538.91
494	18.15	Providing and fixing of Brass fittings for Water supplyu connection as per approved quality and direction of Engineer in Charge.		
494a	18.15.1	15mm dia Brass Bib cock	Each	328.77
494b	18.15.2	20mm Dia Brass Bib cock	Each	417.55
494c	18.16.1	15mm dia Brass Stop Cock	Each	328.77
494d	18.16.2	20mm Dia Brass Stop Cock	Each	535.21
495	18.17	Providing and fixing of Brass fittings for Water supplyu connection as per approved quality and direction of Engineer in Charge.		
495a	18.17.1	25mm dia gunmetal gate valve	Each	825.58



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495b	18.17.2	32mm gunmetal gate valve	Each	1291.84
495c	18.17.3	40mm gunmetal gate valve	Each	1676.65
495d	18.17.4	50mm dia gunmetal gate valve	Each	2514.44
495e	18.17.6	80mm dia gunmetal gate valve	Each	6410.14
495f		100mm dia gate valve	Each	12217.64
496	18.18	Providing and fixing of Brass Ball Cock for high or low pressure with plastic float as per approved quality and direction of Engineer in Charge.		
496a	18.18.1	Brass ball cock 15mm dia	Each	315.44
496b	18.18.2	Brass ball cock 20mm dia	Each	437.78
496c	18.18.3	Brass ball cock 25mm dia	Each	560.12
497	18.19	Providing and fixing of Gunmetal Non return valve as per approved quality (Screwed End)and direction of Engineer in Charge.		
497a	18.19.6	Gunmetal NRV H/V 80mm dia	Each	8734.81
497b		Gunmetal NRV H/V 100mm dia	Each	18026.81
497c		Gunmetal NRV H/V 150mm dia	Each	21511.31
498	18.20	Providing and fixing brass ferrule with C.I mouth cover including boring and tapping the main:		
498a	18.20.1	Ferrulee 15mm dia	Each	279.11
498b	18.20.2	Ferrule 20mm dia	Each	403.26
498c	18.20.3	Ferrule 25mm dia	Each	527.11
499		Providing and fixing of gunmetal Ball valve and fittings for Water supplyu connection as per approved quality and direction of Engineer in Charge.		
499a		15mm dia ball valve	Each	433.00
499b		25mm dia ball valve	Each	902.24
499c		32mm ball valve	Each	1303.46
499d		40mm ball valve	Each	1676.65
499e		50mm ball valve	Each	2514.44
500	18.21	Providing and fixing of unplasticised PVC connection pipe with brass unions as per approved quality and direction of Engineer in Charge.		
500a	18.21.1	15mm 30CM length	Each	83.88
500b	18.21.2	15mm dia 45Cm length	Each	97.01
500c		15mm dia 60Cm length	Each	108.62
	18.49	Providing and fixing of CP Brass Fittings conforming to IS 8931as per approved quality and direction of Engineer in Charge.		
501	18.49.1	15mm dia Bib cock	Each	663.88
502		15mm dia Stop cock	Each	663.88
503	18.52.1	15mm dia Pillar cock	Each	733.57
504	18.51.1	15mm dia long body bib cock	Each	771.13
505	18.50.1	15mm dia long nose bib cock	Each	773.85
506		15mm dia short body bibcock	Each	687.11
507		15mm dia Swing cock	Each	1064.22
508		15mm dia swivel cock	Each	1354.60
509		15mm dia wall mixer with L bend	Each	3271.07
510		15mm dia angle cock	Each	733.27
511		15mm dia conceal stop cock	Each	727.46
512	18.22.1	15mm to 20mm dia CP brass shower rose with Arm (100mm dia)	Each	937.05
513	18.22.2	15mm to 20mm dia CP brass shower rose with Arm (150mm dia)	Each	1054.71
514		CP connector pipe for Geysers 45Cm length with CP brass Unions	Each	306.08
515		CP connector pipe for Geysers 60Cm length with CP brass Unions	Each	364.15
516		15mm CPpillar taps with elbow operated levers	Each	2341.87
517		15mm dia hand shower with flexible pipe	Each	1061.05
518		15mm dia lift cock/push cock	Each	338.66
	18.54	Providing and fixing PTMT Fittings as per approved quality and colour as per the direction of Engineer in Charge.		
519	18.54.1	15mm dia Bib cock	Each	206.82
520	18.55.1	15mm dia Stop cock	Each	160.36
521	18.56.1	15mm dia pillar cock	Each	206.82
522	18.57.1	15mm dia push cock	Each	113.90
523	8.58.1.1	PTMT grating (100 to 150mm dia)	Each	86.14
524		CP brass Grating	Each	74.52
525	18.62	Providing and fixing PTMT ball cock of approved quality, colour and make complete with epoxy coated aluminum rod with L.P./H.P.H.D plastic ball		
525a	18.62.1	PTMT Ball cock 15mm bore, 105mm long weighing not less than 138 Gms	Each	199.29
525b	18.62.3	PTMT Ball cock 25mm bore, 152mm long weighing not less than 440 Gms	Each	560.12
525c	18.62.5	PTMT Ball cock 50mm bore, 242mm long weighing not less than 1240Gms	Each	1466.09
526	18.38	Painting G.I pipes and fittings with synthetic enamel white paint over a ready mixed priming coat, both of approved quality		
526a	18.38.1	15mm nominal bore	Rm	7.22
526b	18.38.2	20mm nominal bore	Rm	8.67
526c	18.38.3	25mm nominal bore	Rm	11.27
526d	18.38.4	32mm dia nominal bore	Rm	13.56
526e	18.38.5	40mm nominal bore	Rm	15.89



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526f	18.38.6	50mm nominal bore	Rm	19.04
527	18.40	Painting G.I pipes and fittings with two coats of anti corrosive bitumastic paint of approved quality		
527a	18.40.1	15mm nominal bore	Rm	3.79
527b	18.40.2	20mm nominal bore	Rm	4.51
527c	18.40.3	25mm nominal bore	Rm	5.75
527d	18.40.4	32mm dia nominal bore	Rm	6.90
527e	18.40.5	40mm nominal bore	Rm	7.85
527f	18.40.6	50mm nominal bore	Rm	9.44
528	18.78	making chases upto 7.5x7.5 cm in walls including making good and finishing with matching surface after housing G.I.pipesetc	Rm	46.41
529	18.48	Providing and placing on terrace (at all floor levels) polythelene water storage tank ISI 12701 marked with cover and suitable locking arrangement and making necessary holes for inlets outlet and overflow pipe but without fittings and the base support for the tank	Ltr	7.01
530	18.23	Laying in position centrifugally cast (Spun) iron S&S or flanged pipes (Excluding cost of pipe)	Quintal	64.63
531	18.24	Laying in position S&S or flanged C.I specials such as tees, bends collars, tapers and caps etc. (Excluding cost of specials)	Quintal	124.15
532	18.25	Providing and laying S&S C.I standards specials such as tees bends, collars tapers caps etc. (Heavy class)	Quintal	2960.84
		Providing and laying S&S C.I standards specials such as 90° bend (Heavy class)		
532a		80mm dia	Each	2517.37
532b		100mm dia	Each	2909.28
532c		125mm dia	Each	3163.31
532d		150mm dia	Each	3607.37
532d		200mm dia	Each	3870.91
533		Providing and laying S&S C.I standards specials such as Tee (Heavy class)		
533a		80x80x80mm	Each	2589.97
533b		100x100x100mm	Each	2967.36
533c		125x125x80mm/ 125x125x125mm	Each	3238.77
533d		150x150x150mm 150x150x100mm/ 150x150x80mm	Each	3665.44
533e		200x200x80mm/ 200x200x100mm 200x200x200mm tee	Each	3891.81
534		Providing and laying S&S C.I standards specials such as Collars (Heavy class)		
534a		80mm dia	Each	808.85
534b		100mm dia	Each	1069.84
534c		125mm dia	Each	1271.04
534d		150mm dia	Each	1894.35
534e		200mm dia	Each	3484.10
535		Providing and laying S&S C.I standards specials such as Tail Piece (Heavy class)		
535a		80mm dia	Each	753.39
535b		100mm dia	Each	1007.42
535c		125mm dia	Each	1248.41
535d		150mm dia	Each	1730.40
535e		200mm dia	Each	2324.19
536	18.27	Providing and laying S&S centrifugally cast (Spun) iron pipes (ClassLA) Conformig to IS 1536		
536a	18.27.1	100mm dia pipe	Rm	2509.44
536b	18.27.2	125mm dia pipe	Rm	2646.89
536c	18.27.3	150mm dia pipe	Rm	2901.91
536d	18.27.4	200mm dia pipe	Rm	3105.06
537		Providing and laying S&S centrifugally cast (Spun) iron pipes (ClassLA) Tyton Joint		
537a		100mm dia pipe	Rm	2509.44
537b		125mm dia pipe	Rm	2646.89
537c		150mm dia pipe	Rm	2901.91
537d		200mm dia pipe	Rm	3105.06
538	18.28/ 18.29	Providing lead caulked joints to spun iron or C. I pipes and specials including testing of joints		
538a	18.28.1	100mm dia pipe	Each	661.66
538b	18.28.2	125mm dia pipe	Each	811.68
538c	18.28.3	150mm dia pipe	Each	1016.96
538d	18.28.4	200mm dia pipe	Each	1421.22
539	18.70	Providing push on joints to centrifugally cast iron pipes or Ductile Iron pipes including testing and including cost of rubber gasket: TYTON joints		
539a	18.70.1	100mm dia pipe	Each	46.95
539b		125mm dia pipe	Each	46.95
539c	18.70.2	150mm dia pipe	Each	85.49
539d	18.70.3	200mm dia pipe	Each	93.85



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540	18.30	Providinh flanged joints to double flanged C.I /D.I pipes and specials including testing of joints:		
540a	18.30.1	80mm dia	Each	137.66
540b	18.30.2	100mm dia	Each	192.65
540c	18.30.3	125mm dia	Each	192.65
540d	18.30.4	150mm dia	Each	196.83
540e	18.30.5	200mm dia	Each	196.83
541	18.31	Providing and fixing C.I sluice valve (with cap) complete with bolts and nuts rubber insertions etc (the tail piece if required will be paid separately)		
541a		80mm dia	Each	6300.44
541b	18.31.1	100mm dia	Each	8733.41
541c	18.31.2	125mm dia	Each	12282.56
541d	18.31.3	150mm dia	Each	15270.98
541e	18.31.4	200mm dia	Each	22692.57
542		Labour for fixing C.I sluice valve (with cap) complete with bolts and nuts rubber insertions etc (the tail piece if required will be paid separately)		
542a		80mm dia	Each	383.67
542b		100mm dia	Each	511.41
542c		125mm dia	Each	546.02
542d		150mm dia	Each	581.98
542e		200mm dia	Each	674.27
543	18.82	Labour for dismantling old C.I pipes including excavation and refilling trenches after taking out the pipes, , breaking lead caulked joints and melting of lead and making into blocks including stacking of pipes at site lead upto 50mtr		
543a	18.82.1	80mm dia	Rm	68.61
543b	18.82.2	100mm dia	Rm	72.46
543c	18.82.3	125mm dia	Rm	76.01
543d	18.82.4	150mm dia	Rm	79.93
543e	18.82.5	200mm dia	Rm	90.32
544	18.34	Constructing masonry chamber 90x90x100cm , inside with 75class designation brick work in cement mortar 1:4 (1 cement : 4 sand) for sluice valve and RCC top slab of 1:2:4 (1 cement : 2 sand: 4 coarse aggregate) necessary excavation foundation concrete 1:5:10 (1 cement : 5 sand: 10 stone aggregate) and inside plastering with cement mortar 1:3 (1 cement: 3 sand) 12mm thick finished with a floating coat of neat cement complete as per standard design: With FPS Bricks	Each	6353.94
545	18.32	Constructing masonry chamber 30x30x50cm , inside with 75class designation brick work in cement mortar 1:4 (1 cement : 4 sand) for sluice valve and RCC top slab of 1:2:4 (1 cement : 2 sand: 4 coarse aggregate) necessary excavation foundation concrete 1:5:10 (1 cement : 5 sand: 10 stone aggregate) and inside plastering with cement mortar 1:3 (1 cement: 3 sand) 12mm thick finished with a floating coat of neat cement complete as per standard design: With FPS Bricks	Each	771.52
546		Labour for relaying S&S centrifugally cast (Spun) iron pipes (ClassLA) Tyton Joint		
546a		100mm dia	Rm	70.29
546b		125mm dia	Rm	91.59
546c		150mm dia	Rm	114.31
546d		200mm dia	Rm	143.23
547		Providing and fixing PTMT Fittings as per approved quality and colour as per the direction of Engineer in Charge.		
547a		PTMT robe hook	Each	100.25
547b		PTMTY soap dish	Each	65.40
547c		15mm to 20mm PTMT shower rose	Each	209.43
548		Providing and laying G.I standards specials such as 90° bend (Heavy class)		
548a		80mm	Each	123.79
548b		100mm	Each	159.02
548c		125mm	Each	194.25
548d		150mm	Each	229.09
549		Providing and laying G.I standards specials such as Tee (Heavy class)		
549a		80x80x80mm	Each	303.83
549b		100x100x100mm	Each	339.05
549c		125x125x80mm/125x125x125mm	Each	368.47
549d		150x150x150mm /150x150x100mm/150x150x80mm	Each	397.51
550		Providing and laying G.I standards specials such as Concentric reducers (Heavy class)		
550a		80x25mm	Each	210.91
550b		100x25mm	Each	275.17
550c		80x50mm	Each	258.13
550d		100x50mm	Each	298.78
551		Providing and fixing of G.I Jamnut in G.I pipes including cutting and threading the pipe and amking long screw etc		
551a		25mm	Each	81.87
551b		32mm	Each	105.10
551c		50 mm nominal bore	Each	140.97



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552		Providing and fixing of G.I pipes complete with G.I fittings and clamps including cutting and making good the walls etc. Internal work (Exposed on wall)		
552a		125mm dia	Each	1472.79
552b		150mm dia	Each	1682.20
553		Providing and fixing C.I sluice valve (with cap) complete with bolts and nuts rubber insertions etc (the tail piece if required will be paid separately)		
553a		250mmdia	Each	16320.42
553b		300 mm dia	Each	17226.73
554		Providing and fixing C.I ball valve (with handle) complete with bolts and nuts rubber insertions etc (the tail piece if required will be paid separately)		
554a		80 mmdia	Each	3954.79
554b		100 mm dia	Each	4656.59
555		Supplying and fixing and fittings of SOIL WASTE/ SEWARAGE / AGRICULTURE PVC pipes of approved brand (Finolex/Supreme) complete with fittings including cutting , laying and making good the walls / under soil etc. as per direction of Engineerin Charge.		
555a		160mm	RM'	492.57
555b		210mm	RM'	572.81
555c		110mm	RM'	330.83
556		Providing and fixing C.I Foot valve (with cap) complete with bolts and nuts rubber insertions etc complete as per direction of Engineer in Charge.		
556a		100mm CI	Each	3164.46
556b		125mm dia CI	Each	3745.21
556c		150mm dia CI	Each	4325.96
557		Providing and fixing of brass foot valve for centrifugal pump with strainer and thred etc complete as per the direction of Engineer in Charge.		
557a		25mm Brass	Each	140.90
557b		50mm Brass	Each	228.01
558		Providing and fixing of PTMT towel rail complete with bracket fixed to wooden cleats with CP bras screw with concealed arrangement of approved make and brand and quality : 600mm x20mm dia PTMT	Each	429.12
559		providing and fixing MS ERW 150 mm dia pipe of heavy type with 21.3kg /mtr having pressure of 0.5mpa with wall thickness of 5.40mm for water supply by welding joints by arc or gas welding making watertight the joints including all fittings such as bend tee etc complete as per direction of Engineer in Charge. all materials and labour supplied by agency (measurement done per mtr only)	RM'	1720.94
560		providing and fixing MS ERW 100 mm dia pipe of heavy type with 18.5kg /mtr having pressure of 0.5mpa with wall thickness of 5.40mm for water supply by welding joints by arc or gas welding making watertight the joints including all fittings such as bend tee etc complete as per direction of Engineer in Charge. all materials and labour supplied by agency (measurement done per mtr only)	RM'	1483.42
	19.0	DRAINAGE		
561	19.1	Providing and laying and jointing glazed stone ware pipes grade A with stiff mixture of cement mortar 1:1 (1 cement: 1 sand) including testing of joints etc complete.		
561a	19.1.2	150mm dia	RM	507.21
561b	19.1.4	230mm dia	RM	965.61
562	19.2	Providing and laying cement concrete 1:5:10 (1 cement: 5 coarse aggregate: 10 graded stone aggregate) alround SW pipes including bed concrete as per standard design:		
562a	19.2.2	150mm dia	RM	511.01
562b	19.2.4	230mm dia	RM	652.17
563	19.3	Providing and laying cement concrete 1:5:10 (1 cement: 5 coarse aggregate: 10 graded stone aggregate) upto haunches SW pipes including bed concrete as per standard design:		
563a	19.3.2	150mm dia	RM	321.85
563b	19.3.4	230mm dia	RM	415.02
564	19.4	Providing and fixing square mouth S.W gully trap grade A complete with C.I grating brick masonry chamber with water tight C.I cover with frame of 300x300 mm size (Inside) the weight of cover to be not less than 4.50kg and frame to be not less than 2.70kg as per standard design:		
	19.4.3	180x150mm size P type with F.P.S bricks class designation 75	Each	1873.90
565	19.5	Dismantling of old SW pipe s including breaking of joints and bed concrete stacking of useful materials near the site within 50 lead and disposal of unservicable materials into municipal dumps:		
	19.5.2	150mm dia	RM	16.27
566	19.6	Providing and laying non pressure NP2 class (light duty) R.C.C pipes with collars jointed with Stiff mixture of cement mortar in proportion of 1:2 (1 cement: 2 sand) including testing of joints etc complete		
566a	19.6.2	150mm dia R.C.C pipe	RM	506.81
566b	19.6.3	250mm dia R.C.C pipe	RM	705.04
566c	19.6.4	300mm dia R.C.C pipe	RM	866.65



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566d	19.6.5	450mm dia R.C.C pipe	RM	1067.95
566e	19.6.7	600mm dia R.C.C pipe	RM	1483.41
566f	19.6.11	1000 mm dia R.C.C pipe	RM	3036.04
567	19.7	Constructing brick masonry man hole in cement mortar 1:4 (1 cement: 4 sand) R.C.C. top slab with 1:2:4 (1cement : 2 sand: 4 coarse aggregate), Foundation concrete 1:4:8 (1 cement : 4sand: 8 coarse aggregate) inside plastering 12mm thick with cement mortar 1:3 (1 cement: 3 sand) finished with floating coat of neat cement punning and making channel in cement concrete 1:2:4 (1 cement: 2 sand: 4 coarse aggregate) finished with floating coat of of neat cement punning complete as per standard design :		
	19.7.1	Inside size of 90x80cm and deep 45Cm including R.C.C Precast 50mm thick cover (455x610mm internal dimension of opening) with FPS bricks class designation 75	Each	4562.49
568	19.7	Constructing brick masonry man hole in cement mortar 1:4 (1 cement: 4 sand) R.C.C. top slab with 1:2:4 (1cement : 2 sand: 4 coarse aggregate), Foundation concrete 1:4:8 (1 cement : 4sand: 8 coarse aggregate) inside plastering 12mm thick with cement mortar 1:3 (1 cement: 3 sand) finished with floating coat of neat cement punning and making channel in cement concrete 1:2:4 (1 cement: 2 sand: 4 coarse aggregate) finished with floating coat of of neat cement punning complete as per standard design :		
	19.7.3.1	Inside size of 120x90 cm and deep 90Cm including R.C.C Precast 50mm thick cover (50mm diameter internal dimension of opening) with FPS bricks class designation 75	Each	7914.41
569	19.8	Extra for depth of manholes		
569a	19.8.1.1	Size 90x80Cm with FPS Brick class designation 75	RM	4120.91
		Extra for depth of manholes		
569b	19.8.2.1	Size 120x90Cm with FPS Brick class designation 75	RM	4932.44
570	19.15	Providing M.S footrests including fixing in manholes with 20x20x10Cm cement concrete blocks 1:3:6 (1 cement : 3 sand:6 coarse aggregate) as per standard design:		
	19.15.2	With 20mm diameter round abr	Each	129.39
571	19.17	Replacement of M.S footrest in manholes including dismantling concrete blocks and fixing with 20x20x10Cm cement concrete block 1:3:6 (1cement : 3 sand: 6 stone aggregate)		
		With 20mm diameter round abr	Each	143.44
572	19.21	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls floors with cement concrete 1:2:4 mix (1 cement: 2 sand: 4 coarse aggregate) cement plasterd on both side with cement mortar 1:3 (1 cement: 3 sand) finished with a floating coat of neat cement and making necessary channels for the drain complete		
		For pipe 100mm to 250mm dia	Each	166.48
573	19.24	Dismantling of manhole including R.C.C. top slab , CI cover with frame including stacking of useful materials near the site and disposal of unservicable materials into municipal dump with in 50mtr lead :		
573a	19.24.1	Rectangular manhole 90x80cm and 45Cm deep	Each	494.57
574		Dismantling of manhole including R.C.C. top slab , CI cover with frame including stacking of useful materials near the site and disposal of unservicable materials into municipal dump with in 50mtr lead :		
574a	19.24.2	Rectangular manhole 120x90cm and 90Cm deep	Each	868.00
575	19.32	making soakpit 2.5mtr diametr 3.0mtr deep with 45x45cm dry brick honey comb shaft with bricks of class designation 75 and SW drain pipe 100mm diameter 1.8mtr long complete as per standard design. (with 75mm thick R.C.C precast cover slab)		
		With F.P.S bricks	Each	19712.33
576	19.33	Constructing soakpit 1.2x1.2x1.2m filled with brick bats including SW Drain pipe 10mm diameter and 1.20m long complete as per standard design (With R.C.C. precast slab of 75mm thick)		
	19.33.1	With F.P.S bricks	Each	4070.24
	21.0	ALUMINIUM WORK		
577	21.1.1	Providing and fixing aluminium work for doors and windows ventilators and partitions with extruded builtup standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS 733 and IS 1285 fixed with rawl plug and screw or with fixing clips or with expansion holdfasteners including necessary filling up of gaps at junction at top and bottom and sides with required PVC /neoprene flt etc aluminium sections shall be smooth rust free straight mitred and jointed mechanically wherever required including cleat angles , Aluminium snap beading for glazing /panelling CP brass /stainless steel screws all complete as per architectural drawings and direction of Engineer in Charge (glazing and panelling to be paid separately):		
		Anodized aluminium (anodised transparent or dyed to required shade according to IS 1868, minimum anodic coating of grade AC 15)		
577a	21.1.1.1	For fixed Portion	Kg	606.55



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578		Providing and fixing aluminium work for doors and windows ventilators and partitions with extruded builtup standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS 733 and IS 1285 fixed with rawl plug and screw or with fixing clips or with expansion holdfasteners including necessary filling up of gaps at junction at top and bottom and sides with required PVC /neoprene flt etc aluminium sections shall be smooth rust free straight mitred and jointed mechanically wherever required including cleat angles , Aluminium snap beading for glazing /panelling CP brass /stainless steel screws all complete as per architectural drawings and direction of Engineer in Charge (glazing and panelling to be paid separately): Powder coated aluminium (aluminium thickness of powder coating 50Micron)		
578a	21.1.1.2	For fixed Portion	Kg	515.08
579	21.1.2	Providing and fixing aluminium work for doors and windows ventilators and partitions with extruded builtup standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS 733 and IS 1285 fixed with rawl plug and screw or with fixing clips or with expansion holdfasteners including necessary filling up of gaps at junction at top and bottom and sides with required PVC /neoprene flt etc aluminium sections shall be smooth rust free straight mitred and jointed mechanically wherever required including cleat angles , Aluminium snap beading for glazing /panelling CP brass /stainless steel screws all complete as per architectural drawings and direction of Engineer in Charge (glazing and panelling to be paid separately): Anodized aluminium (anodised transparent or dyed to required shade according to IS 1868, minimum anodic coating of grade AC 15)		
579a	21.1.2.1	For shutters of doors , windows & ventilators including providing and fixing of hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC/neoprene gasket required (fitting shall be paid separately)	Kg	653.26
580	21.1.2.2	Providing and fixing aluminium work for doors and windows ventilators and partitions with extruded builtup standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS 733 and IS 1285 fixed with rawl plug and screw or with fixing clips or with expansion holdfasteners including necessary filling up of gaps at junction at top and bottom and sides with required PVC /neoprene flt etc aluminium sections shall be smooth rust free straight mitred and jointed mechanically wherever required including cleat angles , Aluminium snap beading for glazing /panelling CP brass /stainless steel screws all complete as per architectural drawings and direction of Engineer in Charge (glazing and panelling to be paid separately): Powder coated aluminium (minimum thickness of powder coating 50Micron)		
580a		For shutters of doors , windows & ventilators including providing and fixing of hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC/neoprene gasket required (fitting shall be paid separately)	Kg	559.94
581	21.2	Providing and fixing 12mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS12823 grade 1 type II in panelling fixed in aluminium doors windows shutters and partition frames with CP brass /stainless steel screws etc complete as per architectural drawing and direction of EngineerinCharge.		
581a	21.2.1	Prelaminated particle board with decorative lamination on one side and balancing lamination on other side.	Sq.M	916.73
581b	21.2.2	Prelaminated particle board with decorative lamination on both side	Sq.M	1038.69
582	21.3	Providing and fixing of glazing in aluminium door window ventilator shutters and partition etc with PVC /neoprene gaskets etc complete as per architectural drawing and the direction of te Engineer in Charge (Cost of aluminium snap beading shall be paid in basic item)		
582a	21.3.1	With float glass panes of 4.0mm thickness	Sq.M	903.79
582b	21.3.2	With float glass panes of 5.5 mm thickness	Sq.M	968.73
582c		With float glass panes of 12mm thickness	Sq.M	1703.37
583	21.4	Providing and fixing double action hydraulic floor spring of approved brand and manufacture IS 6315 marked for doors including cost of cutting floors as required embedding in floors and cover plates with brass pivots and single piece M.S Sheet outer box with side plate etc complete as per direction of Engineer in Charge		
	21.4.1	With stainless steel cover plate	Each	2217.23
584	21.5	Providing and fixing powder coated aluminium work (minimum thickness of powder coating 50micron) consisting of tee/ angle sections of approved makeconforming to IS 733 in frmases of false ceiling including aluminium angle with necessary CP brass screw / stainless steel screw aluminium perimeter angles fixed to walls with rawl plugs @ 450mm C/C and fixing the frame work to GI level adjusting hangers 6mm dia with necessary cadmium plated machine screws all complete as per approved architectural drawing and direction of Engineer in Charge (level adjusting hangers , ceiling cleats and expansion hold fasteners to be paid separately)	Sq.M	746.88



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SCh. Sl.No	DSR Ref. No	Description Of Item	Unit	NIT Analyzed Rate 11-12
585	21.6	Providing and fixing of 6mm dia G.I level adjusting hangers (upto 1200mm length) fixed to roof slabs by means of ceiling cleats made out of G.I flat 40x3mm size 60mm long and expansion hold fasteners 12.5mm dia . 40mm long complete as per direction of Engineer in Charge.	Each	96.97
586	21.8	Filling gap in between aluminium frame and adjacent RCC/ Brick /Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer in Charge complete		
	21.8.1	Upto 5mm depth and 5mm width	RM	75.43
587	21.15	Providing and fixing aluminium casement windows fastener of required length for aluminium windows with necessary screw etc complete		
	21.15.1	Anodized (AC 15) Aluminium	Each	61.98
588	21.16	Providing and fixing aluminium round shape Designer handle of 200mm size with ss screws etc complete as per direction of Engineer in Charge		
	21.16.1	Anodized (AC 15) Aluminium	Each	599.70
589	21.14	Providing and fixing anodised aluminium (anodised transparent or dyed to required shade according to IS 1868 minimum anodic coating of grade AC15) subframe for windows and ventilators with extruded builtup standard tubular sections of approved make conforming to IS 733 and IS 1285 fixed with rawl plugs and stainless steel screws etc.	Kg	599.70
590		Providing and fixing aluminium work half glazed with 5.0mm thick glass pane and half poanelled with prelaminated particle board (Nova board) as per IS 12823 grade 1 type II in panelling for doors and windows ventilators and partitions with extruded builtup standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS 733 and IS 1285 fixed with rawl plug and screw or with fixing clips or with expansion holdfasteners including necessary filling up of gaps at junction at top and bottom and sides with required PVC /neoprene fillet etc aluminium sections shall be smooth rust free straight mitred and jointed mechanically wherever required including cleat angles , Aluminium snap beading for glazing /panelling CP brass /stainless steel screws all complete as per architectural drawings and direction of Engineer in Charge (all fittings such as hinges handle and beading etc all are included and measured in Sq.M)		
590a		For Fixed portion only	Sq.M	4860.73
591		Providing and fixing aluminium work half glazed with 5.0mm thick glass pane and half poanelled with prelaminated particle board (Nova board) as per IS 12823 grade 1 type II in panelling for doors and windows ventilators and partitions with extruded builtup standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS 733 and IS 1285 fixed with rawl plug and screw or with fixing clips or with expansion holdfasteners including necessary filling up of gaps at junction at top and bottom and sides with required PVC /neoprene fillet etc aluminium sections shall be smooth rust free straight mitred and jointed mechanically wherever required including cleat angles , Aluminium snap beading for glazing /panelling CP brass /stainless steel screws all complete as per architectural drawings and direction of Engineer in Charge (all fittings such as hinges handle and beading etc all are included and measured in Sq.M)		
591a		For shutters of doors , windows & ventilators including providing and fixing of hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC/neoprene gasket required	Sq.M	6729.69
592		Providing and fixing aluminium work Fully glazed with 8mm thick glass pane for doors and windows ventilators and partitions with extruded builtup standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS 733 and IS 1285 fixed with rawl plug and screw or with fixing clips or with expansion holdfasteners including necessary filling up of gaps at junction at top and bottom and sides with required PVC /neoprene fillet etc aluminium sections shall be smooth rust free straight mitred and jointed mechanically wherever required including cleat angles , Aluminium snap beading for glazing /panelling CP brass /stainless steel screws all complete as per architectural drawings and direction of Engineer in Charge (all fittings such as hinges handle and beading etc all are included and measured in Sq.M)		
592a		For Fixed portion only	Sq.M	4974.16
593		Providing and fixing aluminium work Fully glazed with 8mm thick glass pane for doors and windows ventilators and partitions with extruded builtup standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS 733 and IS 1285 fixed with rawl plug and screw or with fixing clips or with expansion holdfasteners including necessary filling up of gaps at junction at top and bottom and sides with required PVC /neoprene fillet etc aluminium sections shall be smooth rust free straight mitred and jointed mechanically wherever required including cleat angles , Aluminium snap beading for glazing /panelling CP brass /stainless steel screws all complete as per architectural drawings and direction of Engineer in Charge (all fittings such as hinges handle and beading etc all are included and measured in Sq.M)		



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SCh. Sl.No	DSR Ref. No	Description Of Item	Unit	NIT Analyzed Rate 11-12
593a		For shutters of doors , windows & ventilators including providing and fixing of hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC/neoprene gasket required	Sq.M	3914.11
594		Providing and fixing aluminium work Fully glazed with 4.0mm thick glass pane for Sliding windows ventilators (Subframe) (anodised transparent or dyed to required shade according to IS 1868 minimum anodic coating of grade AC15) subframe for windows and ventilators with extruded builtup standard tubular sections of approved make conforming to IS 733 and IS 1285 fixed with rawl plugs and stainless steel screws etc.with rawl plug and screw or with fixing clips or with expansion holdfasteners including necessary filling up of gaps at junction at top and bottom and sides with required PVC /neoprene fillet etc aluminium sections shall be smooth rust free straight mitred and jointed mechanically wherever required including cleat angles , Aluminium snap beading for glazing /panelling CP brass /stainless steel screws all complete as per architectural drawings and direction of Engineer in Charge (all fittings such as hinges handle and beading etc all are included and measured in Sq.M)	Sq.M	3746.24
595		Providing and fixing aluminium work Fully glazed with 5.0 mm thick glass pane for Sliding windows ventilators (Subframe) (anodised transparent or dyed to required shade according to IS 1868 minimum anodic coating of grade AC15) subframe for windows and ventilators with extruded builtup standard tubular sections of approved make conforming to IS 733 and IS 1285 fixed with rawl plugs and stainless steel screws etc.with rawl plug and screw or with fixing clips or with expansion holdfasteners including necessary filling up of gaps at junction at top and bottom and sides with required PVC /neoprene fillet etc aluminium sections shall be smooth rust free straight mitred and jointed mechanically wherever required including cleat angles , Aluminium snap beading for glazing /panelling CP brass /stainless steel screws all complete as per architectural drawings and direction of Engineer in Charge (all fittings such as hinges handle and beading etc all are included and measured in Sq.M)	Sq.M	3817.68
596		Labour for fixing aluminium work for doors and windows ventilators and partitions with extruded builtup standard tubular sections/ appropriate Z sections and other sections as supplied by the department or refixing of old aluminium section of approved make conforming to IS 733 and IS 1285 fixed with rawl plug and screw or with fixing clips or with expansion holdfasteners including necessary filling up of gaps at junction at top and bottom and sides with required PVC /neoprene felt etc aluminium sections shall be smooth rust free straight mitred and jointed mechanically wherever required including cleat angles , Aluminium snap beading for glazing /panelling CP brass /stainless steel screws all complete as per architectural drawings and direction of Engineer in Charge (glazing and panelling to be paid separately):	Sq.M	83.78
	22.0	NON SCHEDULE		
597		Proping R.C.C. slab and beam for maintenance work such as chipping of wall and dismantling etc and removing the same after work complete as per direction of Engineer in Charge		
		Upto 4.5mtr height	Sq.M	48.94
598		Providing and mixing RECRON 3S triangular fibre of 6-12mm cut length in pouches of 125mm gram each for mixing in cement concrete / cement plaster as per manufacturers specification as directed by Engineer in Charge.	Each	48.50
599		Dismantling and removing of 2.5cm thick grading concrete from roof slab cleaning the surface lowering and removing debris with in 50mtr lead.	Sq.M	29.59
600		Removing of old tarfelt from roof slab cleaning the surface , lowering and removing the debris with in 50mtr lead	Sq.M	23.18
601		Dismantling and removing marble chips flooring including stacking the reusable materials for reuse and removing the debris within 50mtr lead.	Sq.M	27.86
602		Taking out the doors and window shutters and refixing them including screws as may be required. Including Cost of repairing of old door shutter of any size as per requirement along with refixing old fittings such as tower bolt, sliding door bolt, handles, (new fittings to be paid separately) with new hinges including painting the new portion with synthetic enamel paint of required shade with one coat of wood primer(cost of wood to be paid separately) including fixing in existing opening complete (Any size of any thickness)as per direction of Engineer in Charge.	Sq.M	351.06
603		Easing ,oiling and adjusting the door & window including the cost of screws etc complete as per direction of Engineer - in charge.	Each	113.30
604		Providing and replacing damaged steel window members with 'Z' or 'L' section or with box or "D" hinges including taking out shutter with frame and refixing the same after repairing including painting the window (cost of replacing glass panes and new fittings such as handle stay etc. to be paid separately) complete as per direction of Engineer in charge.	Sq.M	613.84



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Sch. Sl.No	DSR Ref. No	Description Of Item	Unit	NIT Analyzed Rate 11-12
605		Labour for dismantling , fitting and refixing of M.S gates and Grills including cutting into size and welding all complete as per approved design including cost of all materials complete as per direction of Engineer in charge (Cost of materials and such as M.S flats and other consumable items welding machine etc are to be supplied by the contractor ,only power will be supplied free of cost within distance of 100.00mtr)	Sq.M	262.76
606		Repairing wherever required of bibcock pillar cock, stopcock, pvc waste pipe low /high level cistern and other fittings of C.P. brass etc complete including providing and fixing as per requirement	Each	29.33
607		Providing and fixing polythene water storage tank cover of approved brand like Sintex tank cover with all necessary fittings as per direction of Engineer in charge.	Each	425.68
608		Refixing of old GI Pipes, complete including cost of GI fittings and clamps, screw cutting and making good etc. (internal work) as per direction of Engineer in charge.		
		a) 15 mm to 50 mm nominal dia	RM'	50.09
609		Leak repair of the pvc over head tank at the junction of fittings and wall including opening the existing pipe fittings and refixing with new jam nuts. And required GI fittings and leak proof by M-seal as per requirement and as per direction of Engineer in charge.	Each	217.22
610		Repairing leakage of toilet/Bath/W.C. and kitchen through P/S trap . by cementing with neat cement slurry as per direction of Engineer-In-charge	Each	52.73
611		Cleaning of porcelain WC pan wash basin, and sink with porcelain clean acid with making complete germ free up to get up the white dazzling colour including using M-Seal as and where required to make the joints leakage proof as per direction of the Engineer in charge.	Each	87.34
612		Refixing old CI/SCI after dismantling from its position as per requirement by providing clamps and scaffolding and making good the walls as per direction of Engineer in charge		
		a) 50 mm to 150 mm nominal Dia	RM'	75.81
613		Providing and laying screed concrete on the top of the roof in 1:2:4 (1 cement :2 sand : 4 stone chips 10mm down gauge) with water proofing admixture Conforming to IS:2645, and crack resistance fibre like RECRON 3S or equivalent with slope of 1 in 100 and necessary hollering as per direction of Engineer- in-charge. (minimum thickness of 75mm)	Sq.M	315.88
614		Providing and applying cement slurry coat (minimum two layer) admixed with polymer modified water proofing cum bonding agent as per manufacturer specification and direction of Engineer inCharge.	Sq.M	105.41
615		Repairing wall crack after removing the loose mortar and cutting 8 cm. Grooves horizontally 35 cm. Long and 12 cm. Deep at 45 cm. Interval and inserting 10 mm. Dia M.S. Rod cut to required size in The groove and filling the same with cement concrete 1:2:4 and Finishing the surface with cement mortar 1:4	Sq.M	133.87
616		Providing and constructing brick drain as per standard slope and design with a layer of 10 cm thick and 75 cm. wide cement concrete 1:4:8 and K.B. Brick work in cement mortar (1:6), 23 cm. width on either side with depth 7.5 cm to 30cm including cement plaster(1:6) with cement punning. (section of Drain 250x300 mm) etc complete in all respect as per direction of Engineer In charge.	RM'	748.37
617		Dismantling the damaged masonry drain and reconstructing it with a layer of 10 cm(4)" thick and 40 cm. (1'-4") wide cement concrete 1:4:8 and K.B. Brick work in cement mortar (1:6), 12 cm. (5") width on either side with depth 7.5 cm(3)" including cement plaster(1:3) with cement punning. (section of Drain 250x75 mm) etc complete in all respect as per direction of Engineer In charge.	RM'	245.92
618		Providing and fixing chicken wire mesh of approved quality and manufactureer in between the R.C.C & brickwork as per direction and uptop satisfaction of Engineer In charge.	Sq.M	92.57
619		Cleaning silt, sapling, dust etc its disposal to outside compound and washing O.H tanks with lime water and disinfecting with bleaching powder using 150 gms of bleaching powder in 1000to 1500 lits. tank keeping it in the tank at least for three hours before flushing and cleaning (at the interval of 1 year)(One tank shall be taken as one job).	Each	162.03
620		Providing and Repairing existing PVC low level cistern / Automatic flushing cistern (5Litr to 10 litr capacity) by making necessary repairs and fitting required fixtures such as float , handle , L bend etc complete (all materials to be provided by the contractor) and repairing internal fittings for making workable as per direction of Engineer in Charge.	Each	278.12
621		Providing and fixing of handle of approved quality for PVC LD cistern.	Each	150.65
622		Providing and fixing of float valve set of approved quality of PVC LD cistern.	Each	249.37
623		Cleaning open surface drain including complete removal of earth , silt slush, brick bats garbages and other refuses, disposing of the same to dumping site in campus as per direction of Engineer in Charge.	RM'	19.05
624		Uprooting trees from the departmental structures developed at any point by arranging scaffolding including dismantling of required portions with complete removal of roots and making necessary repair as per direction of the Engineer-in-charge	Each	106.29



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SCh. Sl.No	DSR Ref. No	Description Of Item	Unit	NIT Analyzed Rate 11-12
625		Cleaning of dust bin fortnightly filled with garbages (if filled up completely) and solid waste etc. and disposal of the same to the dumping yard as directed in the campus	Each	95.24
626		Cleaning the roof top surface , terrace, portico etc by scraping the fungus/algae if any and cleaning the garbages at all height by brooming the top surface before monsoon and disposal the same to the dumping ground as directed by Engineer in Charge	Sq.M	25.96
627		Cleaning the underground sumpof capacity 10000Gallon to 50000 gallon capacity by pumping water ,mudslush, silt by providing electrical or diesel pumping set of 3600ltr capacity per hour including cleaning of mud slush silt sapling fungi dust etc including disposal into dumping ground and washing tank with lime water and disinfecting with bleaching powder etc complete as per direction of Engineer inCharge. (To be carried out Once in a six month)	Each	11339.72
628		Clearing of all manhole/chambers of all size in the campus complete removal of earth silt, slush brick bats, garbages and other refuges disposing of the same to the dumping site in the campus complete as per direction of Engineer-in-charge(Sweeping cleaning of manholes/ chambers shall be done once in three month normally but the frequency may changes as per site requirement Note:- Rate includes the cost of cleaning of manhole/chamber, dewatering If required including removing of manhole/chamber cover and fitting the Same back in position after cleaning etc. complete Payment will be made for each cleaning of manhole.	Each	189.67
629		Cleaning of sewer time of S.W.pipe/RCC pipe including complete removal of earth, slit, sludge, brick bats, garbages and other refuses disposing off the same to dumping site in campus complete as per direction of Engineer –in-charge (including cost of T & P)		
629a		a) Complete cleaning shall be done once in three month normally but the frequency may be charged as per the site requirement.	RM'	19.05
629b		b) Daily cleaning as per complaint issued by the Department (not exceeding 750 m)	RM'	1.06
630		Removing and refixing wash basin/KITCHEN SINK including the cost of new CI/MS brackets and making and repairing the wall complete as per direction of Engineer in charge.	Each	139.03
631		Leak repairing of Toilet and W.C in Sunken roof by dismantling the WC pan and cleaning of debris by disposal the same to the dumping yard and providing and fixing of newOrissa pattern pan with integral water proofing treatment with 12mm cement plaster finished with a floating coat of neat cement of mix 1:3 (1 cement: 3 Sand) (with two coats of cement slurry admixed with polymer modified water proofing cum bonding agent as per manufacturer specification) of sunken roof and cementing the joint with neat cement for complete water tight, and repairing the flooring wherever necessary, complete as per direction of Engineer in Charge	Each	2251.76
632		Providing Filling the Expansion joint with joint sealing tape (Combiflex or equivalent) including a backup material like Thermocole / Celatex board inside the groove of expansion joints Complete as per manufacturer's Specification and direction of Engineer in Charge For 50mm Gap	RM'	1370.72
633		Providing Filling the Expansion joint with joint sealing compound on polycurethane based or equivalent including a backup material like Thermocole / Celatex board inside the groove of expansion joints. The width to depth ratio of sealant should be 2:1 For 50mm Gap	RM'	557.67
634		Credit cost of Unservicable brass/CP brass Bibcock stopcock, float valve ball valve gate valve	Kg	-30.00
635		Credit cost of Unservicable G.I pipe of any dia meter and fittings such as elbow ,teeetc	Kg	-5.00
636		Credit cost of unservicable C.I /SCI pipe and fittings	Kg	-10.00
637		Creditcost of Old M.S /TMT reinforcement	Kg	-10.00
638		Creditcost of old/new bricks	Each	-2.00
639		Credit cost of old damaged wooden shutter of any size of surface are less than 1 Sq.M	Each	-10.00
640		Credit cost of old Chowkhat of any size	Kg	-2.00
641		Creditcost of PVC fitting and pipe of any size	Kg	-1.00
642		Credit cost of old damaged Gate, grills, railing , channel, I secton etc	Kg	-10.00
643		Credit cost of aluminium extruded body channel hinges, tapered clips, fittingsetc	kg	-50.00
644		Conveyance of Materials such as stone metal refuse,garbage, rubbish etc including labour for loading and unloading. Beyond initial lead.		
644a		Head load		
644b		upto 50mtr	Cum	19.00
644c		Beyond 50mtr and upto 100mtr	Cum	22.00
644d		beyond 100mtr and upto 150mtr	Cum	33.00
644e		truck load Upto 1km	Cum	41.00
644f		truck load upto2 km	Cum	53.00
644g		truck load upto 3 km	Cum	57.00



NIT ROURKELA--SCHEDULE OF RATES 2011-12

SCh. Sl.No	DSR Ref. No	Description Of Item	Unit	NIT Analyzed Rate 11-12
644h		Truck load upto 4 Km	Cum	65.00
644i		Truck load upto 5 KM	Cum	85.00
645		Providing and fixing of scaffolding for repair and maintenance work upto Vth floor level (all scaffolding materials and labour arranged by the Agency) and dismantling the same after completion of work as per direction of Engineer in Charge.	For one day or part	832.18
646		Dry stone pitching on the sides of bank, roads for retaining of earth of minimum thickness of 300mm (Not Exceeding 30Cm in depth 1.5m in width but exceeding 10 Sq.M on Plan) on a bed of sand including filling joints with river sand complete as per direction of Engineer in charge including earth work sand all complete (work including all labour and materials). (measurement done on Sq.M)	Sq.M	364.71
647		Dismantling of 50mm thick hydraulic pressed precast interlocking tiles flooring laid in cement mortar /compacted sand including stacking of servicable material and disposal of unservicable material within 50mtr lead.	Sq.M	35.89
648		Grass turfing with doob or other type of grass on sloping portion of roads, embankment, channel etc including watering and maintenance of the turfing 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 (cost of the good earth and other material such as sludge and dump manure and cost of labour included) including mixing and spreading of all materials at site.	Sq.M	30.84
649		Labour for fixing and lowering of subimmersible pump in borewell including lowering and fixtures for fastening and other required fixtures such as paint thread for jointing of pipe complete in all respect as per direction of Engineer in charge. All labour supplied by the agency. cost of all transportation to the execution site is bear by the agency.	Each	1073.81
650		Labour for shifting of plant Equipments and other furniture of heavy weight from the laboratory/ office to outside for repairing and maintenance and cleaning the debris and stacking the usable materials as per direction of Engineer in charge complete in all respect. Labour supplied by the agency (measurement made to each No for weight more than 50 Kg	Each	58.89
651		Labour for cleaning and washing of quarter with surf using water jet and broom after vacation by the occupant complete for occupation as per direction of Engineer in Charge.	Each	121.38
652		Labour for cleaning and painting of roof surface with department supplied chemicals/ surface coating chemicals for water proofing of old RCC slab/ folded roof slab/ sloped roof complete including cleaning and painting the surface (labour and materials such as broom brush etc supplied by the agency. complete in all respect as per direction of Engineer in charge.	Sq.M	42.16