

		<p>सेंट्रल माइन प्लानिंग एण्ड डिजाइन इंस्टीट्यूट ल मटेड रिजनल इंस्टीट्यूट-१ जी.टि.रोड (वेस्ट) आसनसोल-७३३०४ <b>CENTRAL MINE PLANNING &amp; DESIGN INSTITUTE LIMITED</b> Regional Institute – 1, G. t. Road (w), Asansol – 713304 Gram: MINEPLAN; Phone: RD 225-3504 (O), 225-4133 (R), EPABX : (0341) 225 2086/2916/2001/2654, Fax –(0341) 225 0935 Email: <a href="mailto:cmpdi1@sancharnet.in">cmpdi1@sancharnet.in</a>, <a href="mailto:cmpdi_asl@dataone.in">cmpdi_asl@dataone.in</a> Corporate Identity Number(CIN) U14292JH1975GOI001223</p>	 <p>ISO 9001:2000 Cert No.CI/8656</p>
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संख्या :CMPDI/RI-1/Civil/e-tender/2016-17/1001

दिनांक 07/10/2016

## CORRIGENDUM

**Name of work :-**Repair and Renovation works in New Allotted Quarters 31-C/2, 18-A, 27-A, 26-F, 21-C &23-C. Urgent repairing works in officers 3<sup>rd</sup> floor bathrooms cleaning of roofs and misc. repair & replacement works in some blocks & other office buildings of RI-1 CMPDI Asansol..

**Reference: - Tender notice no: CMPDI/RI-1/Civil/2016-17/934; Dated 28.09.2016**

Due to some unavoidable reasons the following changes have been made in the 'time schedule of activities' for the above referred tender notice of above mentioned work.

### Time Schedule of Activities

Sl. No.	Particulars	Time Schedule
1.	Document download/Availability end date	18.10.2016 1500 Hrs
2.	Bid submission end date	18.10.2016 1530 Hrs
3.	Bid Opening date	19.10.2016 1600 Hrs

**All other terms & conditions and information shall remain as before.**

Sd/-

Dy GM/HOD (Civil)

C M P D I RI-I, Asansol

**QUOTATION DOCUMENT**

**CMPDIL RI-1 ASANSOL**

Name of work:-	<b>Repair and Renovation works in new allotment quarters 31-C/2, 18A, 27A, 26F, 21C &amp; 23C, Urgent repairing works in Offices' 3rd floor bathroom, Cleaning of roofs and misc. repair &amp; replacement works in some blocks &amp; office buildings of RI-1, CMPDI, Asansol</b>
Last Date and time of submission :-	<b>Upto 1530 Hours on 18.10.2016</b>
Date and time of opening :-	<b>At 1600 Hours on 19.10.2016</b>
Place of Submission:-	<b>Civil Engineering Department</b>

Document issued to:-

Name of Party	
Address	
Phone No	

Sd/-

Signature of Issuing Authority  
उप महाप्रबंधक ( स वल)

# **CONTENTS**

**Repair and Renovation works in new allotment quarters 31-C/2, 18A, 27A, 26F, 21C & 23C, Urgent repairing works in Offices' 3rd floor bathroom, Cleaning of roofs and misc. repair & replacement works in some blocks & office buildings of RI-1, CMPDI, Asansol**

<b>Sl. no.</b>	<b>Description</b>	<b>Page no.</b>
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Sd/-

(ए. कुमार )

उप महाप्रबंधक ( स वल)

		<p>सेंट्रल माइन प्लानिंग एण्ड डिजाइन इंस्टीच्यूट ल मटेड रिजनल इंस्टीच्यूट-१ जी.टि.रोड (वेस्ट) आसनसोल-७३३०४ <b>CENTRAL MINE PLANNING &amp; DESIGN INSTITUTE LIMITED</b> Regional Institute – 1, G. t. Road (w), Asansol – 713304 Gram: MINEPLAN; Phone: RD 225-3504 (O), 225-4133 (R), EPABX : (0341) 225 2086/2916/2001/2654, Fax –(0341) 225 0935 Email: <a href="mailto:cmpdi1@sancharnet.in">cmpdi1@sancharnet.in</a>, <a href="mailto:cmpdi_asl@dataone.in">cmpdi_asl@dataone.in</a> Corporate Identity Number(CIN) U14292JH1975GOI001223</p>	 ISO 9001:2000 Cert No.CI/8656
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संख्या: CMPDI/RI-1/Civil/2016-17/ 934

दिनांक 28.09.2016

## QUOTATION NOTICE

Sealed quotations are invited on **overall percentage basis** from registered / eligible experienced contractors enlisted/ approved or having experience of similar nature of work at the appropriate category of Govt. Dept. or Public Sector Undertaking, Municipalities, Statutory Authorities etc for the following work at **CMPDI, RI-1 , Asansol.**

Sl. No	Name of work	Estimated Amount (Rs.)	Earnest Money(Rs)	Completion Period
1.	<b>Repair and Renovation works in new allotment quarters 31-C/2, 18A, 27A, 26F, 21C &amp; 23C, Urgent repairing works in Offices' 3rd floor bathroom, Cleaning of roofs and misc. repair &amp; replacement works in some blocks &amp; office buildings of RI-1, CMPDI, Asansol</b>	1,85,177.00	1860.00	One month

### 2. Time Schedule of Activities

Sl. No.	Particulars	Time Schedule
a.	Quotation notice Publication date	28.09.2016 1130 Hrs
b.	Document download/availability start date	29.09.2016 1130 Hrs
c.	Document download/availability end date	18.10.2016 1500 Hrs
d.	Bid Submission last date	18.10.2016 1530 Hrs
e.	Start date for seeking Clarification	29.09.2016 1130 Hrs
f.	Last date for seeking Clarification	06.10.2016 1700 Hrs
g.	Bid Opening date	19.10.2016 1600 Hrs

### Issue of quotation document:-

Quotation paper will be available from this office on any working day (excluding Sundays & Holidays) during Office working hours.

**The Quotation Document may be seen and down loaded from the web site <http://www.cmpdi.co.in>**

Money Receipt or Bank Draft etc. for Earnest Money shall be put inside one separate envelop and secured and sealed. Quotation Notice No., Name of work, Name of the bidder shall be clearly written on this Earnest Money Envelop. This envelope along with Quotation Document envelope **shall be put**

**inside a third overall envelope and secured and sealed** and name of the work, Quotation Notice No. name of the Bidder shall be written on this overall envelope also and submitted.

The company shall not be responsible for any delay / difficulties / inaccessibility of the downloading facility for any reason whatsoever. The downloading facility shall be available during the period of sale of tender paper.

The bidders will be required to submit an undertaking that they will accept the tender documents as available in the website and their tender shall be rejected if any tampering in the tender document is found to be done at the time of opening of tender. In case of any discrepancy between the tender

documents downloaded from the website and the master copy available in the office, the latter shall prevail and will be binding on the bidders. No claim on this account will be entertained.

**Attention: Parties who will be down loading the document from web site:**

The Bank Draft towards the **Earnest Money** and the **Undertaking** of the bidder shall be submitted in a separate envelop marked “**Earnest Money and the Undertaking**” and not with quotation document, so that this envelope can be opened first.

Sealed quotations should be submitted in the prescribed form **on or before 1530 hours on 18.10.2016 in the tender box kept in the Civil Engg. Dept. of CMPDI, RI-I, Asansol – 713304.**

Any bid received after the stipulated date & time will not be accepted.

**Quotation Notice No. & Name of the Work shall be written on top of each envelope. Full name & address of the bidder shall be written on the bottom left corner of the same (each) envelope.** The quotation papers must accompany credentials / proof of experience.

This envelop containing quotation paper and the envelop containing Earnest Money shall be put inside a 3<sup>rd</sup> overall envelop and sealed . Quotation Notice No. & Name of the work, Name of the bidder shall also be written on this 3<sup>rd</sup> overall envelop.

Quotation papers thus submitted shall become property of the Company and shall not be returned to the bidder.

**Eligibility criteria for taking up the work:-**

1.The intending bidder must have in his/her/their name as prime contractor(s) experience of having successfully completed civil work(s) during last 7(seven) years ending 31.08.16 (i.e. eligibility period) following credentials(at least):

Three similar completed works each costing not less than 40% of the estimated amount, i e, Rs 74,071.00 only.

Or

Two similar completed works each costing not less than 50% of the estimated amount, i e, Rs 92,589.00 only.

Or

One similar completed work costing not less than 80% of the estimated amount, i e, Rs 1,48,142.00 only.

2. Average annual financial turnover of civil works during the last 3 (three) years, ending 31<sup>st</sup> March, 2016 (i.e during 2013-14,2014-15 and 2015-16) should be at least 30% of the estimated amount i.e. Rs 55,553.00 only.

In addition to this the intending bidder must submit the following: -

**1.Copy of PAN** [Permanent (I. Tax) Account Number]

**2.Copy of registration with appropriate Sales tax Authorities** (In relation with 'Work Contract Tax') / VAT number.

**3. Valid Trade license**, as may be applicable.

**4. "Service Tax" Registration Number.** **Service Tax** as applicable shall be deposited by the eligible contractor, as per Service Tax Rules.

**5. Authentication by the Tenderer:** Copies of all the certificates to be submitted along with the tender shall be duly authenticated by the bidder, which will also be verified at the time of issue of tender document, if taken from this office.

**Validity of the offer shall be 4 months from date of opening.**

The Earnest Money (E/M) may be deposited in cash at the cash counter of CMPDI, RI-I, Asansol, between 11-00 hrs and 15-00 hrs. on any working day or in the form of Demand Draft along with quotation papers **in separate envelope**. Demand Draft is to be prepared in favor of **"CMPDI Ltd, Regional Institute, Asansol"**

The E/Money will be retained in case of successful bidder and refunded to the unsuccessful bidder(s) in due course and it will not carry any interest. The E/Money of the successful bidder will be dealt with as part of Security Deposit and shall not carry any interest also.

Security Deposit will be refunded after **Defect Liability Period of one year from the date of completion of the work** as certified by the Engineer – in – Charge for the work. The Security Deposit (S/D) shall not carry any interest amount.

**The condition of Abnormally High Rate (AHR) and Abnormally Low Rate (ALR) of + /- 20% respectively** (in comparison to the updated estimated rate / amount) as laid down in the Manual for Civil Engineering Works (MCEW) of Coal India Limited shall be applicable.

**"Service Tax"** as applicable shall be deposited by the eligible contractor, as per Service Tax Rules. **For details refer General Terms and Conditions.**

The Tender Committee reserves the right to accept / reject any quotation without assigning any reason whatsoever and its decision will be final as well as binding.

**All the parties are requested to be present on the scheduled date and time of opening. However their absence will not stop opening.**

Sd/-

(ए. कुमार )

उप महाप्रबंधक ( स वल)

**Copy to:**

1. The Regional Director, RI-I.
2. The Chairman, Tender Committee [(Sri A.Mukharjee, Ch. Manager (Geology)], R I – I.
3. The General Manager (Civil), CMPDIL, Gondwana House, Ranchi- 834 031. –With request to arrange to display the notice.

4. The G M (civil), ECL, Sanctoria, -do-
5. The Executive Engineer, PWD, Court Road, Asansol – 713 304, -do-
6. The HOD (Civil), RI – II, III, IV, V, VI and VII, -do-
7. The HOD. (Finance), RI-I
8. The Officer-in-Charge P&A Dept., RI-I,
9. All the Drilling Camps, [Through GM.(Geology) (3copies)]. (One copy for each Camp). ---With request to arrange to display the notice.
10. Cash Section, RI – I.
11. Notice Board, RI-I.

Sd/-

(ए. कुमार )

उप महाप्रबंधक ( स वल)

**UNDERTAKING BY TENDERER(S) / BIDDERS.**

I, ....., proprietor/ partner/ accredited representative of M/s  
....., solemnly declare that:

1. We are submitting Quotation (tender) for the work “**Repair and Renovation works in new allotment quarters 31-C/2, 18A, 27A, 26F, 21C & 23C, Urgent repairing works in Offices' 3rd floor bathroom, Cleaning of roofs and misc. repair & replacement works in some blocks & office buildings of RI-1, CMPDI, Asansol.**” against quotation notice no. CMPDI/RI-1/Civil/2016-17/ 934 , Dated 28.09.2016. I/We - partners of the firm am/ are not related to any employee of CIL and it's subsidiaries.
3. All information furnished by me/us in respect of fulfillment of eligibility criteria & qualification information of this tender is complete, true & correct.
4. All documents/ credentials submitted through this tender are genuine, authentic, true & valid.
5. I/ we have not been banned/ de-listed by any Govt./ PSU organization.
6. If any information & document submitted is found to be false/ incorrect anytime, department may cancel my tender & action as deemed fit may be taken against me/ us, including termination of the contract, forfeiture of all dues including EMD & banning/ de-listing of my/our firm.

.....  
Signature of Tenderer

.....  
Name of Tenderer (IN BLOCK CAPITAL)

Position in the Company/Firm (proprietor/partner/legal representative etc): ... ..

Date: .. ..

Place: .. ..

Official Seal (Stamp):



		<p>सेंट्रल माइन प्लानिंग एण्ड डिजाइन इंस्टीच्यूट ल मटेड रिजनल इंस्टीच्यूट-१ जी.टि.रोड (वेस्ट) आसनसोल-७३३०४ <b>CENTRAL MINE PLANNING &amp; DESIGN INSTITUTE LIMITED</b> Regional Institute – 1, G. t. Road (w), Asansol – 713304 Gram: MINEPLAN; Phone: RD 225-3504 (O), 225-4133 (R), EPABX : (0341) 225 2086/2916/2001/2654, Fax –(0341) 225 0935 Email: <a href="mailto:cmpdi1@sancharnet.in">cmpdi1@sancharnet.in</a>, <a href="mailto:cmpdi_asl@dataone.in">cmpdi_asl@dataone.in</a> Corporate Identity Number(CIN) U14292JH1975GOI001223</p>	 <p>ISO 9001:2000 Cert No.CI/8656</p>
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**UNDERTAKING BY TENDERER(S) / BIDDERS.\***

**(\*ONLY FOR THOSE WHO HAS (HAVE) DOWNLOADED THROUGH WEBSITE)**

I/We, ....., proprietor/ partner/Legal Attorney/accredited representative of M/s ....., solemnly declare that:

1.I/we accept the Quotation Document as (I/we have) downloaded the same from the website <http://www.cmpdi.co.in> unconditionally.

And

2.I/we understand and fully accept that the Quotation Document thus obtained by me/us will be rejected if found incomplete and/or if any tampering and/or discrepancy is found therein in comparison to the Master Copy or Office Copy of the said Quotation Document.

3.I/we further assure and accept that I/we shall accept the Office Copy version of the Quotation Document and shall not raise any objection in any form or shall not make any hindrance to the tendering process in case of such rejection.

.....  
Signature of Tenderer

.....  
Name of Tenderer (IN BLOCK CAPITAL)

Position in the Company/Firm: (proprietor/partner/legal representative etc): .....

Date: .....

Place: .....

Official Seal (Stamp):

## **General terms & Conditions**

**1(i)** The Security Deposit shall consist of two parts: **(i) Performance Security and (ii) Retention Money.** The Earnest Money already deposited shall automatically be converted to first part of Security Deposit (S/D) that is “Performance Security”, which in total shall be 5% (five percent) of the award value / contract value or the revised contract value, if any.

Thus the balance amount of “**Performance Security**” to make it 5% (five percent) of the “Award Value” shall have to be deposited by the awardee(s) (contractors) within 28 (twenty eight) days of receipt of Work Order / Acceptance Letter. However, this balance amount may be deposited in the form of Govt. Securities, FDR, NSC, Bank Guarantee (if more than Rs. 50,000.00) etc. This Performance S/D shall be released within 14 (fourteen) days of completion of work (taking over certificate). **This shall not carry any interest.**

**(ii)** All bills of the contractor shall be paid at 95% (ninety five percent) of the ‘Bill’ / ‘Work’ value. This 5% (five percent) so accrued shall be retained as 2<sup>nd</sup> part of Security Deposit called “**Retention Money**” and only be released on completion of “**Defect Liability Period**” of one year from the date of formal completion of the work. **This also shall not carry any interest.**

**2.** The contractor(s) will have to make his/their own arrangement for materials, tools, labour etc required for successful completion of the work.

**3.** The contractor(s) should pay his/their workers according to the Minimum Wage Ach and other State / Central Govt. legislation / statutes or award in force during the contract period.

**4.** The work should be started within 10(ten) days from the issuance of the work order or handing over of clear site whichever is latter..

**5.** In case of any disputes or interpretation of any clause or item of work the decision of Regional Director, RI-I, shall be final & binding.

**6.** The contractor(s) have to follow the CMPF act / scheme for your employees.

**7.** The contractor(s) will maintain statutory registers as required under Labour Rules and CMPF Rules.

**8.** Bills shall be submitted in bill form in triplicate.

9. The amount shall be quoted on at par with/ % above/below the estimated cost as given in Bill of Quantity and shall be written both in figure and words, In case of any discrepancy between figures & words, the rate written in words shall prevail.

10. The entire work should be to the satisfaction of Engineer-in-Charge / Controlling Authority and his / their views shall be final and binding.

11. The amount quoted shall be inclusive all taxes, cess & incidentals etc. but including "Service Tax" which shall be dealt as noted below/as noted in Tender Notice/Quotation Notice.

12. The condition of Abnormally High Rate (AHR) and Abnormally Low Rate (ALR) of +/- 20% (in comparison to updated estimated rate) as laid down in the Manual for Civil Engineering Works (MCEW) of Coal India Ltd shall be applicable.

13. A penalty at the rate of half percent (1/2 %) of the awarded value per week of delay shall be applicable as compensation (Liquidated Damage). The aggregate of such compensation/compensations shall not exceed ten percent (10%) of the total awarded value.

14. If the contractor without reasonable cause or valid reasons, commits default in commencing the work within the aforesaid time limit, the company shall without prejudice to any other right or remedy, be at liberty, by giving 15 days notice in writing to the contractor to commence the work, to forfeit the Earnest Money deposited by him and to rescind the Letter of Acceptance of Tender/Work Order.

Additionally, the Company will reserve the right to debar such defaulting Contractors from participating in future Tenders for a minimum period of 1(one) year.

15. The Company , if satisfied that the works can be completed by the contractor within a reasonable time after the specified time of completion ,may allow further extension of time at its discretion. With or without the levy of LD. In the event of extension granted with the LD, The company will be entitled without prejudice to any other right or remedy available in that behalf, to recover from the contractor as agreed damages equivalent to half percent (1/2%) of the value of the work for each week (or the part of the week) of delay subject to a ceiling of 10%(ten percent) of the contract price/awarded value..

16. The Company , if not satisfied that the work can be completed by the contractor, and in the event of failure on the part of the contractor to complete the work within further extension of time allowed as aforesaid, shall be entitled without prejudice to any other right , or remedy available in that behalf, to rescind the contract.

17. The Company, if not satisfied with the progress of the contract and in the event of failure on the part contractor to recoup the delays in the mutually agreed time frame, shall be entitled to terminate the contract.

18. in the event of such termination of the contract as described in clauses 16 or 17 or both, the company, shall be entitled to recover L.D. up to 10%(ten percent) of the contract value and forfeit the security deposit made by the contractor besides getting the work completed by other means at the risk and cost of the contractor

19. the Company may at its sole discretion, waive the payment of compensation on request received from the contractor indicating valid and acceptable reasons if the entire work is completed within the date

as specified in the contract/ Work Order or as validly extended date without stipulating any compensation for delay.

## **20. Service Tax**

Any one of the following documents depending upon the status w.r.to Service Tax as declared by Bidder.

- a). Status : Small Service Provider and exempted from Service Tax Registration and/or exempted from payment of Service Tax but a Body Corporate : Document:1.A Certificate from a practicing Chartered Accountant having a membership number that the bidder is a Small Service Provider and exempted for Service Tax Registration and/or exempted from payment of Service Tax and 2.The Certificate of Incorporation
- b). Status: Small Service Provider and exempted from Service Tax Registration and/or exempted from payment of Service Tax but not a Body Corporate: Document: A Certificate from a practicing Chartered Accountant having membership number that the bidder is a Small Service Provider and exempted for Service Tax Registration and/or exempted from payment of Service Tax.
- c) Status: A Body Corporate: Document: Service Tax Registration Certificate issued by Central Excise and Custom Department, Govt. of India. d) Status: Other than above three categories: Document: Service Tax Registration Certificate issued by Central Excise and Custom Department, Govt. of India.

Sd/-

(ए. कुमार )

उप महाप्रबंधक ( स वल)

## **Scope of Work**

- 1.**The work involves work “**Repair and Renovation works in new allotment quarters 31-C/2, 18A, 27A, 26F, 21C & 23C, Urgent repairing works in Offices' 3rd floor bathroom, Cleaning of roofs and misc. repair & replacement works in some blocks & office buildings of RI-1, CMPDI, Asansol.**” following the B O Q as well as site instructions provided by the ‘Department. This includes Dismantling brick work, concrete, plaster etc. Providing brick work, RCC, cement concert etc as per instruction of engineer in charge.
- 2.**The contractors shall have to arrange/supply all the materials including bricks, sand, stone chips, cement and steel, shuttering & staging materials, polythene sheets etc, and all plants and tools & tackles required for the construction work.
- 3.** After completion of work etc contractors have to finally clean the works-related-sites and shall have to clear the site as well as the scaffolding materials, tools & tackles, etc.
- 4.** Materials once brought at site cannot be taken out/taken back without specific permission.
- 5.** The responsibility of keeping the materials brought in and / or used by the contractor(s) safely without obstructing anything and without causing any difficulty to any person, activity or movements, etc. shall lie fully on the contractor(s).
- 6.** Quality of the works as certified (or notified) by the Engineer-in-Charge shall be final and binding on the contractor (s). For unsatisfactory quality of works /part of works the same shall be demolished under instruction from E-i-C and useless materials shall be removed and disposed off without any payment / claim whatsoever.
- 7.** During measurement (of works done), contractor(s) or his/her/their authorized representative shall be present. However if he/she/they fail to be present the measurement taken by the department (Civil Engineering Department / RI-I) unilaterally, shall be final and binding on the contractor(s).
- 8.**Execution of work will be carried out following CPWD: DSR:2012 (and W.B P.W.D SOR where CPWD items do not apply) norms and specifications for respective items, which may be seen from our office at any working day during office hours and during progress of the work as well.
- 9.** Contractor(s) has (have) to arrange himself (themselves) all the water required for construction (including curing, for compaction etc) and for drinking, cooking, washing etc (for the workers /labourers/ supervisors etc), at his/her/their own expense.

10. Work should be started (starting, continuation, etc. to avoid inconvenience only and not for technicalities) in consultation with the Engineer-in-Charge as well as School authorities.

11. The contractor/contractors himself / themselves or his / their authorized representative shall attend the Department / RI-I regularly and shall consult for all technical aspects/ difficulties & keep informed regarding material (specification) used & progress of work.

Sd/-

(ए. कुमार )

उप महाप्रबंधक ( स वल)

Date. ....

Accepted

Signature of Tenderer.....

Name of Tenderer (Signatory) ..... Place: .....

## GENERAL SPECIFICATIONS

### 1. **BRICKS:**

Common burnt clay bricks shall conform to IS: 1077 and shall be hand moulded or machine moulded having a frog 100mm in length 40 mm in width and 10mm to 20 mm deep on one of its flat sides. Bricks made by extrusion process and brick tiles may not be provided with frogs. Nominal size shall be 229mmx114mmx70mm and of actual size 225mmx111mmx70mm

### 2. **SAND:**

Sand shall be clean, sharp and coarse and free from all impurities and organic matter and be such as to pass through a 64-mesh sieve.

### 3. **AGGREGATE FOR CEMENT CONCRETE:**

Aggregate for cement concrete shall be from trap, quartzite or hard quartz stone which shall pass through  $\frac{3}{4}$  inch mesh and rest on  $\frac{1}{4}$  inch mesh screens. The aggregate shall be well screened and washed before use and shall be free from foreign matter.

### 4. **CEMENT MORTAR:**

The mortar shall consist of cement and sand mixed in the proportion defined in the relevant schedule item for the various items of work. Only measured quantity shall be used. Sand and cement shall be spread on a clean dry platform in layers one over the other and mixture only when the mortar is required for use, and then only in sufficient to make the materials moist.

### 5. **AGGREGATE FOR REINFORCED CEMENT CONCRETE:**

Aggregate for RCC, shall be from trap, quartzite or hard quartz stone. The aggregate shall pass through  $\frac{3}{4}$  inch mesh and rest on  $\frac{1}{4}$  inch mesh screens. It shall be well screened and washed before use and contain no foreign matter.

#### **6. CEMENT CONCRETE:**

The proportion of the concrete will be the same as specified in the schedule of quantities and will be strictly adhered to. The concrete shall be mixed properly in a power driven mixer in such manner as to avoid loss of water. The concrete shall be mixed for a minimum period of two minutes or until it is of even colour and of uniform consistency throughout. Hand mixed concrete shall contain 10% extra cement and shall be made on hard, clean and even surface. The cement and sand will be mixed dry until the mixture is uniform in colour. It shall then be spread evenly over the coarse aggregate and mixed thoroughly. The water shall then be added and the whole mixed thoroughly until the mass is uniform in colour and consistence. Concrete shall be handed from the place of mixing to the place of final deposit as rapidly as practicable. The concrete once laid shall not be disturbed and shall be kept thoroughly damped by means of well matting and sand.

The aggregate should consist of stone ballast of quantity approved by the Engineer-in-Charge and shall consist of graded size  $\frac{3}{4}$ " and downward as per C.P.W.D. specifications.

#### **7. BRICK WORK IN CEMENT MORTAR IN FOUNDATION PLINTH & SUPERSTRUCTURE:**

Only selected bricks approved by the Engineer-in-Charge shall be used in the masonry. The bricks must be soaked in water for 6 hours before use. There should be proper bonding and shall be carried through the full width of the wall, each course being truly longitudinal, neither horizontal nor vertical joints shall be of greater thickness than  $\frac{1}{4}$ ".

The proportions of mortar will be as specified in the schedule of quantities. All old works to be kept thoroughly watered for two days before any new work is put on it. The other specification will be same as that of C.P.W.D.

#### **8. REINFORCED CEMENT CONCRETE 1:2:4 SLABS, ROOFING, LINTELS, CHAJJA:**

Reinforcement to be done with a net-work of M.S. rods and specified under quantity schedule or by the Engineer-in-Charge. Rods and netting shall be woven by the contractor(s) at his own cost. Every alternative cross over of M.S. rods shall be tied fast with binding wire of approved gauge. The netting shall be of proper size. The concrete shall be of good clean aggregate properly damped with clean water. The size of the stone aggregate to be used shall be  $\frac{3}{4}$ " gauge and below. The proportion shall be 1 cement: 2 sand: 4 stone ballast. Before laying the concrete the centering and frame-works will have to be approved by the Engineer-in-Charge or his authorized officer. The concrete shall be well mixed before laying and vibrated properly till mortar comes out to the surface and the reinforcing rods are thoroughly embedded in concrete.

Care to be taken that specified covering is there and no reinforcing materials are exposed from outside. The laid concrete should not be disturbed and should be kept wet for 10 days.

The centering will be removed only after 7 days of placing the concrete or as directed by the Engineer-in-Charge.

The general specification of C.P.W.D (Delhi Schedule of Rate) will be followed in all respects.

#### **9. PLASTER INSIDE AND OUTSIDE:**

Prior to the application of plaster the faces of the walls shall be cleaned and the joints of the brickwork raked out to depth of 12 mm and properly watered for at least 6 hours. The plaster shall be thoroughly smoothened and rubbed with straight edges and wooden flat in a proper workman like manner. Watering shall be continued for 7 days on the finished surface.

The mortar will ordinarily consist of cement and sand in the proportions specified in the schedule of quantity, which should be strictly adhered.

Where lime also specified the cream of lime shall be prepared by thorough slaking required quantity of quick lime with the minimum quantity of water in order to get a chick slurry. This slurry of cream of lime shall then be screened through a clean cloth to remove all dirt and any un-slaked lime particle.

Sand shall be measured by volume in suitable sized measuring boxes while cement shall be measured by weight taking 1 bag 1.20 cft.

Screened cream of lime and screened sand shall be mixed together in requisite proportions, and the whole then mixed with necessary quantity of cement. The minimum quantity of water to give a working consistency to the mix should only be added and no more. The plaster shall be applied immediately after mixing maintaining the said precautions as for cement mortar.

#### **10. 15 mm thick CEMENT PLASTER DADO 1:3**

All the joints of masonry should be raked out 20 mm deep and the walls should be thoroughly wetted at least 6 hours before the plaster is laid. The plaster shall then be laid on with some what more than the required thickness and leveled and finished with a trowel and with 1.5 mm thick neat cement finish. The dado shall be kept constantly watered for 3 weeks. The thread lining is to be done. It shall be done before the cement takes initial set.

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## **SAFETY CODE**

### **Additional Safety Measures to be taken by the Contractor**

1. Suitable scaffoldings should be provided for the workmen for all works that cannot safely be done from the ground or from solid construction except for short period work as can be done safely from ladder. When a ladder is used an extra mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying materials as well suitable footholds and handholds shall be provided on the ladder and the ladder shall be given on the inclination not steeper than 14 to 1 (14 vertical and 1 horizontal).
2. Scaffolding or staging more than 12' above the ground or floor suspended from and overhead support erected with stationary support shall have a guard rail properly attached, bolted, braced, and otherwise secured at least 3' (three feet) high above the floor or platform of such scaffolding or staging and ends thereof with only such opening as may be necessary for the delivery of material. Such scaffolding or staging will be so fastened as to prevent it from swaying from the building or structure.
3. Working platform, gangway, stairway, should be so constructed that they should not sag unduly or unequally and if the height of the platform or the gangway, or the stairway is more than 12' (twelve feet) above the ground level they should be closely boarded, should have adequate width and should be suitable fenced as described in (ii) above.
4. Every opening in the floor of a building or in working platform is to be provided with a suitable means to prevent the fall of persons or materials by providing suitable fencing or railing whose minimum height shall be 3' (three feet)
5. Safe means of excess shall be provided to all working platform and working place. Every ladder shall be provided securely fixed. No portable single ladder shall be over 30' (thirty feet) in length while the



width between side rails in rung ladder in no case be less than 11.5' (Eleven and half feet) for the ladder up to and including 10 feet in length. For the longer ladder this width should be increased at least 14 % of each additional feet of length. Uniform step spacing shall not exceed 1 feet. Adequate precaution shall be taken to prevent danger from Electrical equipment. No materials on any of the sites of the work shall be so stacked or placed as to cause danger or inconvenience to any person or the public.

**6.** All trenches, 4 feet or more in depth shall at all time are to be supplied with at least one ladder for each 100 feet in length or fraction thereof. Ladder shall be extended from bottom of the trench to at least 3 feet above the ground. The side of the trench, which is 5 feet or more in depth, shall be stopped back to give suitable slope or securely held by timber bracing, so as to avoid the danger of sides to collapse. The excavated materials shall not be placed within 5 feet of the edge of the trench or half of the trench whichever is more. Cutting shall be done from top to bottom. Under no circumstances under-cutting shall be done.

#### Demolition

**7.** Before any demolition work is commenced and also during the process of the work: All roads and open areas adjacent to the work site shall either be closed or suitably protected. No electric cable or apparatus, which is liable to be source of danger over a cable or apparatus used by the operator shall remain electrically, charged. All practical steps shall be taken to prevent danger to persons employed from risk of fire or explosion or flooding. No floor, roof or other part of the building is so overloaded with debris or material as to render it unsafe.

**8.** All necessary personal safety equipment as considered adequate by the Engineer-in-Charge should be kept available for the use of the persons employed on the site and maintained in a condition suitable for immediate use and the contractor should take adequate steps to ensure proper use of those equipment by those concerned.

**(a)** Workers employed on mixing asphalt materials, cement and lime mortar should be provided with protective foot ware and protective goggles.

**(b)** Those engaged in white washing and mixing or stacking of cement bags or any materials that are injurious to the eyes should be provided with protective goggles.

**(c)** Those engaged in welding works should be provided with welder's glass.

**(d)** Stone-breakers should be provided with protective goggles and protective clothing and seated at sufficiently safe intervals.

**(e)** When workers are employed in sewers and manholes, which are in use the Contractor/Contractors must ensure that the manhole covers are opened and are ventilated at least for an hour before the workers are allowed to get into the manholes, and the manholes so opened must be cordoned off with suitable railing and provided with warning signals or beards to prevent accident to the public.

**(f)** The Contractor(s) shall not employ any person below the age of 18 and women on the work of painting with products containing lead in any form. Whenever men above the age of 18 are employed for the work of lead painting the following precautions should be taken.

**(i)** No paint containing lead or lead products should be used except in the form of paste or ready-made paint.

(ii) Suitable face masks should be supplied for use by the workers when paint is applied in the form of spray or a surface having lead paint dry rubbed and scrapped.

(iii) The Contractor(s) to the workmen shall supply overalls and adequate facilities shall be provided to enable the working painters to wash during the process of work.

**9.** When the work is done near any place where there is risk of drowning, all necessary equipments should be provided and kept ready. Prompt rescue of any person in danger adequate provision should be made for prompt first-aid treatment of all injuries likely to be sustained during the course of work.

**10.** Use of hoisting machine and tackle including their attachments, anchorage and supports shall confirm to the following standards and conditions.

(i) (a) These should be good mechanical condition, sound material and adequate strength and free from patent defect and shall be kept in good repair and in good working order.

(b) Every rope used in hoisting and lowering materials or a means of suspension shall be of durable quality and adequate strength and free from patent defects.

(ii) Every crane driver or hoisting appliance operator shall be well qualified and no person under the age of 21 years should be In-charge of hoisting machine including any scaffold, winch or given signal to the operator.

(iii) In case of every hoisting machine and of every chain ring hook shackle, swivel, and pulley block used in hoisting or lowering or as means of suspension of the safe working load shall be ascertained by adequate means. Every hoisting machine and all gears referred to above shall be plainly marked with the safe working load. In case of hoisting machine having variable safe load of the condition under which it is applicable shall be clearly indicated. No part of any machine or any gear referred to above on this paragraph shall be loaded beyond the safe working load except the purpose of testing.

(iv) In case of departmental machines, the safe load shall be notified by the Electrical Engineer-in-charge. As regards Contractor/ Contractors machine the Contractor/ Contractors shall notify the safe working load of machine to the Engineer-in-charge. Whenever any machine is brought to the work site it is mandatory to get it verified by the Electrical Engineer-in-charge concerned.

**11.** Motors, Gearing, Transmission, Electrical wiring and other dangerous part or hoisting appliances should be provided with such means as will reduce to minimum risk of accident descent of the load. Adequate precaution should be taken to reduce to the minimum the risk of any part of the suspended load becoming accidentally displaced.

When workers employed on electrical installations that are already energized, insulating mats, wearing apparel such as gloves sleeves and boots as may be necessary should be provided. The workers should not wear any rings, watches and carry keys or other materials that are good conductors of electricity.

**12.** All scaffolds ladders and other safety devices mentioned or described herein should be maintained in safe condition and no scaffolds, ladders or equipment shall be altered or removed while it is in use. Adequate washing facilities should be provided at or near places of work.

13. These safety provisions should be brought to the notice of all concerned by display on a notice board at a prominent place at the work site. The persons responsible for compliance of the safety code shall be named therein by the Contractor / Contractors.

14. To ensure effective enforcement of the rules, regulations relating to safety precautions, the arrangements made by the Contractor/Contractors shall be open to the inspection by the labour officers, Engineer-in-Charge of the department or their representative.

15. Notwithstanding the above clauses 1. to 14 there is nothing in these to exempt the Contractor/Contractors from the operations of any other act or rules in force in the Republic of India.

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Date. ....

Accepted

Signature of Tenderer.....

Name of Tenderer (Signatory) ..... Place: ....

<b>Name of Work:- Repair and Renovation works in new allotment quarters 31-C/2, 18A, 27A, 26F, 21C &amp; 23C, Urgent repairing works in Offices' 3rd floor bathroom, Cleaning of roofs and misc. repair &amp; replacement works in some blocks &amp; office buildings of RI-1, CMPDI, Asansol</b>						
<b>Location:- RI-1, CMPDI, Asansol</b>						
<b>S.N.</b>	<b>Description of Items</b>	<b>Unit</b>	<b>Rate</b>	<b>Qty</b>	<b>Amount (Rs)</b>	<b>Ref</b>
<b>Reference:- CPWD:DSOR:2012 Items</b>						
1	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead :					15.13.1
	Of area 3 sq. metres and below	each	39.70	12	476.40	
2	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length ( hold fast lugs or dash fastener shall be paid for separately).					9.1.2
	Sal wood	cum	68648.90	0.15	10297.34	

3	Providing and fixing wire gauge shutters using galvanized M.S. wire gauge of average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm, for doors, windows and clerestory windows with hinges and necessary screws :					9.27.2.1.1
	30 mm thick shutters					
	with ISI marked M.S. pressed butt hinges bright finished of required size					
	Second class teak wood	sqm	2412.70	0.41	989.21	
4	Providing and fixing fly proof galvanized M.S. wire gauge to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm all complete.					9.51.1
	With 2nd class teak wood beading 62X19 mm	sqm	758.2	0.29	219.88	
5	Providing and fixing ISI marked oxidised M.S. pressed butt hinges with necessary screws etc. complete.					9.57.2
(a)	100x58x1.90 mm	each	21.45	13	278.85	
(b)	75x47x1.70 mm	each	16.85	2	33.70	9.57.3
6	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge.					9.5.1.2
	Second class teak wood					
	30 mm thick shutters	sqm	2,162.65	7.10	15354.82	
7	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with :					10.30.1
	4.0 mm thick glass panes	sqm	657.75	1.26	828.77	
8	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.					15.2.1
	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	cum	671.05	0.81	543.55	

9	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.					11.3.1
	40 mm thick with 20 mm nominal size stone aggregate	sqm	280.05	6.15	1722.31	
10	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, 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 wherever required :					17.2.1
	W.C. pan with ISI marked white solid plastic seat and lid	each	2,885.10	2	5770.20	
11	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in:					6.4.2
	Cement mortar 1:6 (1 cement: 6 coarse sand).	cum	3876.15	0.40	1550.46	
12	Neat cement punning	sqm	31.10	0.49	15.24	13.18
13	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground within 50 metres lead :					14.1.1
	With cement mortar 1:4 (1 cement : 4 fine sand)	sqm	186.40	25.00	4660.00	
14	Providing and fixing PTMT bib cock of approved quality and colour					18.54.1
	15mm nominal bore, 86mm long, weighing not less than 88 gm	No	130.10	25	3252.50	
15	Providing and fixing PTMT pillar cock of approved quality and colour					18.56.1
	15mm nominal bore, 107 mm long, weighing not less than 110 gm	each	202.25	7	1415.75	
16	Providing and fixing PTMT stop cock of approved quality and colour:					18.55.1
	15mm nominal bore, 86mm long, weighing not less than 88 gm	each	130.10	10	1301.00	

17	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS : 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :					17.10.2.2
	Kitchen sink without drain board					
	610x460 mm bowl depth 200 mm	each	3,702.00	2	7404.00	
18	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete.					17.18.1
	10 litre capacity - White	each	831.90	4	3327.60	
19	Providing and fixing 600x120x5 mm glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.	each	341.25	5	1706.25	17.33
20	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.					17.28.1.2
	Semi rigid pipe:40 mm dia	each	66.45	6	398.70	
21	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :					18.22.1
	100 mm diameter	each	58.15	2	116.30	
22	Providing and fixing PTMT swivelling shower, 15 mm nominal bore, weighing not less than 40 gms	each	112.75	3	338.25	18.64
23	Colour Washing such as green, blue or buff to give an even shade:					13.39.1
	New work (two or more coats) with a base coat of white washing with lime	sqm	16.15	834.00	13469.10	
24	White washing with lime to give an even shade :					14.42.1
	Old work (two or more coats)	sqm	7.05	287.00	2023.35	
25	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :					14.54.1
	One or more coats on old work	sqm	35.20	432.00	15206.40	
26	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade :					14.53.1
	One or more coats on old work	sqm	39.30	80.00	3144.00	

27	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.					2.6.1
	All kinds of soil	cum	129.35	1.54	199.20	
28	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:					6.1.2
	Cement mortar 1:6 (1 cement: 6 coarse sand).	cum	3,316.55	0.32	1061.30	
29	Providing, hoisting and fixing up to floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like, including the cost of required centering, shuttering but excluding cost of reinforcement, with 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size).	cum	5,265.20	0.04	210.61	5.12
30	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete above plinth level.					5.22A
	Thermo-mechanically Treated bars	kg	62.25	4.23	263.32	
31	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					4.1.3
	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	4,514.05	1.31	5913.41	
32	Finishing walls with Acrylic Smooth exterior paint of required shade :					14.66.1
	Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface	sqm	48.30	145.00	7003.50	
33	Finishing walls with Acrylic Smooth exterior paint of required shade :					13.46.1
	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	sqm	67.50	15.00	1012.50	
34	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	sqm	5.70	1121.00	6389.70	14.43

35	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.					15.23.2
	For thickness of tiles above 25 mm and up to 40 mm	sqm	31.25	3.02	94.38	
36	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.					15.7.4
	In cement mortar	cum	566.60	0.35	198.31	
37	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	each	261.90	2	523.80	15.52
38	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.	sqm	7.50	1.30	9.75	14.46
39	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :					13.43.1
	Water thinnable cement primer	sqm	27.55	1.30	35.82	
40	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	sqm	76.05	1.30	98.87	13.80
41	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :					13.60.1
	Two or more coats on new work	sqm	60.25	1.30	78.33	
42	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS:15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	sqm	724.25	3.05	2208.96	
Sub Total for CPWD:DSOR:2012 Items:-					121145.69	



Reference:- <b>WB:PWD:SOR:2010 Items</b>						
43	Labour for taking out door and window frame including shutter for repair or replacement of different parts of the frame & refixing the same including mending good all damages complete. (Concrete and brick work for mending damage will be paid separately)					P-217, item- 72 (a)
	Upto area 2.5 sqm	sqm	79.15	13.00	1028.95	
44	Renewing M.S. clamps for door and window frame made of flat bent bar, end bifurcated with necessary screws etc. In cement concrete(1:2:4) including cutting of brick work/concrete work as per direction. (Cost of concrete will be paid separately)					P-191, item-19 (c)
	40mm X 6mm, 125mm Length	each	30.41	16	486.56	
45	Uprooting and removing plants from the surface of walls parapet etc and making good damages. Repairing of damages to be paid separately.					P-451, item- 10 (b)
	Medium size plant of girth of exposed stem above 75 mm. but not exceeding 150 mm. lift upto 6 mtr.	each	44.16	15	662.40	
46	Taking out rain water down pipes, removing chokages and refixing the same in position including mending good damages (of taking out and refixing)	m	7.91	25.00	197.75	P-361, item- 13
47	Supply of UPVC pipes (B-Type) & fittings conforming to IS-13592-1992					P-66, item- 23 (A) (i) (a) & (b)
(a)	Single socketed 3m length : 75 mm	m	205.00	3.60	738.00	
(b)	Single socketed 3m length : 110 mm	m	305.00	28.00	8540.00	
48	Supply of UPVC pipes (B-Type) & fittings conforming to IS-13592-1992.Fittings	each	162.00	1	162.00	P-67, item- 23 (B) (ii) (b), (iii) (a) & (x) (a)
(a)	Plain Tee: 110mm	each	162.00	1	162.00	
(b)	Door Tee: 75mm	each	107.00	1	107.00	
(c)	Bend 87.5°: 75mm	each	64.00	1	64.00	

49	Making one set of scaffolding only for replacing glass panels, painting, uprooting plant and another repairing works of building and S&P works for external works only with 10 cm. dia bamboo as main posts at the rate of 1 metre centre to centre and 7.5 cm. dia bamboo ties @ 0.75 metre apart fitting and fixing with necessary coir, nails etc. as per direction of the Engineer-in-charge.					P-473, item- 51 (a) & (b)
(a)	3.90m height	each	286.64	5	1433.20	
(b)	Extra for additional 3.6 height or part thereof	each	262.20	5	1311.00	
50	Filling in foundation or plinth <u>by fine sand</u> in layers not exceeding 150 mm as directed and consolidating the same by thorough saturation with water ramming complete including the cost of supply of sand.	cum	464.06	0.18	83.53	4(B),p-5
51	Single Brick Flat Soling of picked jhama bricks including ramming and dressing bed to proper level and filling joints with local sand.	sqm	237.87	14.25	3389.65	1, p-33
52	Supplying, fitting and fixing PVC pipes of approved makeof (medium duty) conforming to ASTM D - 1785 and threaded to match with GI Pipes as per IS : 1239 (Part - I). with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbo, nipple, long screw, reducing socket, reducing tee, short piece etc. fitted with holder bats clamps, including cutting pipes, making threads, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required, jointing materials and two coats of painting with approved paint in any position above ground. (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accessories, specials. Payment for painting will be made separately)					P-12, item-19 (I) (a)
(a)	For Exposed Work:PVC Pipes: 20mm	m	102.00	20.00	2040.00	
(b)	150mm	m	1669.00	6.00	10014.00	
53	Supplying, fitting and fixing approved brand P.V.C. CONNECTOR white flexible, with both ends coupling with heavy brass C.P. nut, 15 mm dia.					9 (ii), P-40
	450mm long	each	56.00	2	112.00	

54	Supplying, fitting and fixing Waste fittings complete: C.P. over brass: 32mm	each	218.00	1	218.00	17 (a) (ii), p-41
55	Supplying, fitting and fixing C.I. round grating: 100mm	each	58.00	3	174.00	18 (i), p-64
56	Supplying fitting and fixing in position approved PVC doorframe (matt finish) made of extruded PVC multichamber hollow section having dimensions 60mm x 50mm x 2mm ( $\pm 0.2$ mm), horizontal section will be joined with vertical section by galvanised steel screws after inserting two number steel brackets as reinforcements making suitable space for placing hinges, one steel tube 40mm x 20mm x 1.20mm will be inserted on one full vertical side of the frame (hinge side) as reinforcement the frame will then be fixed in the opening with the help of PVC expandable fastener wooden gutties and galvanized steel screws including cost of all materials and labour, hire charges of tools and appliances, carriage of all materials, taxes and all other incidental charges complete.	m	252.70	6.00	1516.20	P-299, Item- 154
57	PVC Door Shutter-30mm thick: Supplying, fitting & fixing PVC door shutter of approved quality & shade in position, the style & rail of PVC door shutter will be made of rigid PVC multicavity hollow chamber of 59mm x 30mm section with 2.0mm ( $\pm 0.2$ mm wall thickness. Horizontal & vertical section shall be fixed to each other by self tapping screws and one solid polymeric/ M.S. galvanised tubular L-shaped bracket 100mm x 200mm in each corner of the shutter frame for placing hinges. Polymer based multicavity hollow section of 120mm x 30mm with 2.0mm ( $\pm 0.2$ mm) wall thickness will be placed in the middle, reinforced by solid polymer bar of 200mm long at both ends and screws from both sides as lock rail. The section frame will then be fitted in by PVC panels of size 100mm x 25mm with wall thickness 1.2mm ( $\pm 0.2$ mm) and 2 nos of 6mm dia bright rod will be inserted horizontally with both side check and nut system and stretches where fixing of hinges/ hasp bolt/ tower bolt/ door ring are required to be strong enough to withstand wear and tear. The rate is	sqm	1892.31	2.50	4730.78	P-301, Item- 155(B)

	inclusive of cost of all materials, labour and hire of tools and plants and appliances. Carriage of all materials taxes and all other incidental charges complete. The rate is exclusive of cost of hinges, hasp bolt, tower bolt, door ring etc. In ground floor					
58	Supplying, fitting and fixing boiling water proof ply conforming to IS: 710-1977 bonded with phenol formaldehyde synthetic resin conforming to IS: 848-1974 of approved make and brand fitted and fixed as per design as per approval and direction of Engineer-in-Charge.[excluding the cost of supporting frame work and teak wood batten/Lipping], In ground floor.					107 (vi), P- 263
	19mm	sqm	2158.72	0.54	1165.71	
Sub Total for WB:PWD:SOR:2010 Items:-					38336.73	
Reference:- <b>Day to Day Maintenance ARC SOR 2015-16 Items</b>						
59	Easing door and windows	No	20.97	47	985.59	196
60	Supplying , fitting and fixing alluminium sheet on wooden shutter.	Sq.m	495.54	2.16	1070.37	198
61	Replacing the commercial decorative plywood of solid flush type door including stripping of existing damaged or torn out ply wood, minor repairs to the wooden frame work as necessary, replacing new ply wood of approved quality and design, fitting and fixing with the shutter frame works, complete as per direction of Engineer-in-Charge (taking out and refixing shutter will be paid separately):					199
	With commercial quality:					I
	Double face	Sq.m	1810.74	3.01	5450.33	ii
62	Providing and fixing MS holder bat clamp of approved design for 100 mm SCI pipe.	Each	30.50	9	274.50	67
63	Removal of excess earth to a distance of about 2 km lead by means of mechanical transport including loading, unloading and stacking.	cum	247.81	21.60	5352.70	203
64	Providing services for miscellaneous unskilled work as per requirement in hour(s) per day as per direction of Engineer-in-Charge.	per hour	40.41	16	646.56	263
65	Providing services for miscellaneous semiskilled work as per requirement in hour(s) per day as per direction of Engineer-in-Charge.	per hour	45.72	130	5943.60	264

66	Supplying fitting & fixing CP approved brand towel rail 25 mm dia 60 cm long on 7.5 cm x 7.5 cm x 7.5 cm CP teak blocks complete in all respects as per directions of Engineer-in-Charge.	No	343.10	3	1029.30	37
67	Supplying fitting & fixing 32 mm dia. Polythene flush pipe of approved make with necessary fixing materials and clamp complete.	No.	209.69	2	419.38	35
68	Washing & cleaning with soap water and rubbing with oiled cloth.					141 (b)
	Floor or dado other than marble	Sq.m	4.05	200.00	810.00	
69	Closet seat 40 mm thick with lid & CP hinges, rubber buffer & brass screws supplied, fitted & fixed: E.P.W.C, with ISI mark.					18 (b)
	Bestolite (White)	each	743.35	1	743.35	
70	Sweeping terraced roof including cleaning mouths of down pipes and removing sweeping.	Sq.m	1.92	1546.29	2968.88	221
Sub Total for Day to Day Maintenance ARC SOR 2015-16 Items:-					25694.56	
TOTAL					185177.00	
Rupees One Lakh Eighty Five Thousand One Hundred Seventy Seven Only						

SD/-  
Overseer (Civil)

SD/-  
AM (Civil)

SD/-  
CM (Civil)

		<p>सेंट्रल माइन प्लानिंग एण्ड डिजाइन इंस्टीच्यूट ल मटेड रिजनल इंस्टीच्यूट-१ जी.टि.रोड (वेस्ट) आसनसोल-७३३०४</p> <p><b>CENTRAL MINE PLANNING &amp; DESIGN INSTITUTE LIMITED</b> Regional Institute – 1, G. t. Road (w), Asansol – 713304 Gram: MINEPLAN; Phone: RD 225-3504 (O), 225-4133 (R), EPABX : (0341) 225 2086/2916/2001/2654, Fax –(0341) 225 0935 Email: <a href="mailto:cmpdi1@sancharnet.in">cmpdi1@sancharnet.in</a>, <a href="mailto:cmpdi_asl@dataone.in">cmpdi_asl@dataone.in</a> Corporate Identity Number(CIN) U14292JH1975GOI001223</p>	
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**QUOTATION FORM**  
**(QUOTATION BY THE BIDDER / AGENCY)**

We have gone through the quotation document, terms & conditions and specifications for the work. **“Repair and Renovation works in new allotment quarters 31-C/2, 18A, 27A, 26F, 21C & 23C, Urgent repairing works in Offices' 3rd floor bathroom, Cleaning of roofs and misc. repair & replacement works in some blocks & office buildings of RI-1, CMPDI, Asansol.”** We have visited the site also. We agree to all the terms and conditions and technical specifications. Accordingly my/our quoted percentage rates & respective amounts, for the works, are noted below:

Sl. No.	Ref. of Schedules	Respective Estimated Amount (Rs)	Respective Quoted Rates. (%below/ above/ at-par etc)	Respective Amounts arrived at (by the quoted % in previous column). (Both in fig. and words). (Rs)
1.	CPWD DSOR 2012: ITEMS	121145.69		Rs. (Rupees..... .....)
2.	WB:PWD:SOR 2010: ITEMS	38336.73		Rs. (Rupees..... .....)

3.	ARC SOR 2015-16	25694.56		Rs. (Rupees..... .....)
	TOTAL	185176.98 SAY 185177.00		

GRAND TOTAL (quoted) =Rs. ( ..... ) only.

Date:.....

Place:.....

Signature of Proprietor/ Authorized Person

.....  
(NAME OF THE SIGNATORY IN BLOCK CAPITAL)

Address:-

(OFFICIAL SEAL)

Telephone No: (If any): .....

Mobile phone No: (If any): .....

**Note:-** For authorized person enclose letter of authorization in original on non-judicial stamp paper of at least Rs 10.00 (ten). This is mandatory.