

CSIR- CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION
Sector 30, Chandigarh
(Engineering Services Division)

C.S.I.O./1380/2018-19/ESD

NIT No. 02/2018-19/ESD/C.S.I.O./Chd.

Name of work: - Maintenance of Office area in CSIO, Chandigarh. (2018-19)

Important instructions to the tenderers.

1. Please read NIT carefully
2. The complete tender document in the folder to be downloaded and printed on good quality printer. The folder contains the following documents (Page 01 to 05)
 - (a) Notice Inviting Tender
 - (b) Other terms & condition for Civil & Electrical
 - (c) Contract Document, Volume-1 in English
 - (d) Contract Document, Volume-2 Schedule of Quantity (Civil & Electrical).
3. The tenderers are advised to visit the site at CSIO before quoting the rates.
4. **The complete document (60 pages) should be properly binded/ tagged after filling the rates & signing every page by the tenderer. The document must be sealed in Envelope-2 as detailed in NIT.**

Name of Agency/Tenderer.....

Signature of Tenderer.....

Central Scientific Instruments Organisation
Sector-30, Chandigarh
(Engineering Services Division)
(Telefax: 0172-2657083)

C.S.I.O./1380/2018-19/ESD

NIT No. 02/2018-19/ESD/C.S.I.O./Chd.

Tender are hereby invited for the following work in C.S.I.R.-C.S.I.O., Sector-30, Chandigarh from approved and eligible contractors of CPWD and those enlisted for appropriate class of contractors in Railways, MES, PSEB, BSNL, State PWD and other Govt. & Semi-Govt. organisation. The contractors must have completed annual maintenance of building (item rate contract) of major Civil item work of minimum 12 month duration for both at each of value, not less then, either, three works of 40 % of Estimated cost or two works 60 % of E. cost or One work 80 % of E. cost as shown here under, during the last 7 years ending on **30th June, 2018**. Similar works mean maintenance work (Civil work) of one year duration. All tenderers must produce valid registration on prescribed form and completion certificate in proof of above. The contractor must have registered GST number and should be registered with ESI, PF authorities having valid ESI, EPF number. The estimated cost shown below is based on **DSR 2016** rates for scheduled items & current market rates for non-scheduled items.

| Sr. No. | Name of work | <u>Estimated Cost</u> | Time allowed | Last date & time of receipt of the eligibility documents | Date & time of opening of eligibility documents envelope -1 |
|---------|--|--|--------------|--|---|
| | | <u>Earnest money(Rs.)</u> | | | |
| | | <u>Tender Cost</u> | | | |
| 1. | Maintenance of Office area in CSIO, Chandigarh. (2018-19). | Civil- Rs. 30,50,919.00 Rs. 61,019.00 Tender Cost Rs. 500.00 | 12 Months | 18.07.2018 3.00PM | 18.07.2018 3.30PM |

- The tender shall not be issued physically. The interested and eligible parties are to download the complete tender document from website www.csio.res.in
- The tenderers shall be required to submit the bids in two envelopes (envelopes should super scribed with envelope no. & documents in envelope).

Envelope-1:- Will contain self attested copies of valid documents related to eligibility criteria registration certificate, undertaking for electrical, including the following:

- Tender Fee & EMD in form as specified as above only.
- GST registration/ return filed within last six months ending on last date of previous month.
- Satisfactory completion certificates for similar works & minimum. Values as mentioned above in tender. The completion certificate should contain all necessary information including date of start and completion, completion amount & scope of work.
- Registration Certificate of appropriate class.
- Electrical License and Registration Certificate of appropriate class. Experience Certificate as above.

In case any of the above documents is found missing or non satisfactory, the tender shall be rejected. No further clarification shall be sought from the tenderer. Envelope-2 of such agencies shall not be opened.

Envelope-2:- Will contain Financial Bid including complete tender document available on website for downloading.

Envelope-1 will be super scribed with envelope-1 containing tender fee, EMD, GST registration, satisfactory completion certificates, ESI, EPF & Enlistment certificate etc.

Envelope-2 will be super scribed with-envelope-2 containing complete tender document downloaded from website after quoting rates.

The agencies are to follow two envelope system strictly as described above.

The tenderer are advised to enclose experience certificate more than minimum required as per NIT.

- Envelope-1&2 are to be sealed separately. Both the envelope are to be sealed in bigger size envelope. The tenders are to be dropped in the box kept in the Administration Block latest be **18.07.2018, 3.00 PM**.
- The tenders will be opened on **18/07/2018, 3.30PM** in the presence of tenderers or their representatives if any. Only Envelope-1 shall be opened on this date & time.
- The bidders shall be qualified after scrutiny of credentials.
- Envelope-2 shall be opened only of qualified bidders, on notified date & time, in the presence of qualified tenderers or their rep., if any. The notification shall be available on website.
- When no rate has been quoted for any item, leaving space both in figures, words and amount blank, it will be considered that the tenderer has included cost of this item in other items and rate for such item will be considered as zero and work will be required to be executed accordingly. Tenderers must ensure that all the prints of downloaded document should be of good quality. Vogue/poor quality of printed documents and incomplete documents will not be accepted. The decision of TOC in the matter will be final.
- If any tenderer withdraws the tender before award of work or makes any modification in terms and conditions of the tenders which are not acceptable to the department, then CSIO shall without prejudice to any right or remedy be at liberty to forfeit 50% of earnest money.
- Conditional tenders & tender with **use of fluid**, shall be rejected.
- The validity of tender will be 90 days after opening of the same.

Corrigendum/Addendum, if any etc., will be on www.csio.res.in only.

Superintending Engineer (Civil)
Engineering Services Division

**CSIR-Central Scientific Instruments Organisation
Sec.30-C, Chandigarh**

CONTRACT DOCUMENT

VOLUME – 01

CONDITIONS OF THE CONTRACT FOR WORKS

C.S.I.O./1380/2018-19/ESD

NIT No. 02/2018-19/ESD/C.S.I.O./Chd.

Name of work: - Maintenance of Office area in CSIO, Chandigarh. (2018-19)

NAME OF AGENCY.....

CSIR- CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION
Sector 30, Chandigarh

C C.S.I.O./1380/2018-19/ESD

NIT No. 02/2018-19/ESD/C.S.I.O./Chd.

Name of work: - Maintenance of Office area in CSIO, Chandigarh. (2018-19)

(A) Tender fee information:-

Tender fee Rs.500/- deposited vide bank draft/Pay order drawn in favour of Director CSIO.

Draft/Pay order No.....Dated.....Bank.....

(B) EARNEST MONEY DEPOSIT INFORMATION:-

Earnest money of **Rs.61,019 /-** deposited vide bank draft/Pay order drawn in favour of Director, CSIO.

Draft/Pay order No.....Dated.....Bank

Signature of the contractor

Note:1. The contractor is required to sign every page of this document.

Tender fee & EMD to be kept in envelope-01.

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Central Scientific Instruments Organisation
Engineering Services Division
Notice Inviting Tender

C.S.I.O./1380/2018-19/ESD

NIT No. 02/2018-19/ESD/C.S.I.O./Chd.

Name of work: - Maintenance of Office area in CSIO, Chandigarh. (2018-19)

Note: Condition 1 to 7 as per NIT

1. Tender are hereby invited for the following work in C.S.I.R.-C.S.I.O., Sector-30, Chandigarh from approved and eligible contractors of CPWD and those enlisted for appropriate class of contractors in Railways, MES, PSEB, BSNL, State PWD and other Govt. & Semi-Govt. organisation. The contractors must have completed annual maintenance of building (item rate contract) of major Civil item work of minimum 12 month duration for both at each of value, not less then, either, three works of 40 % of Estimated cost or two works 60 % of E. cost or One work 80 % of E. cost as shown here under, during the last 7 years ending on **30th June, 2018**. Similar works mean maintenance work (Civil work) of one year duration. All tenderers must produce valid registration on prescribed form and completion certificate in proof of above. The contractor must have registered GST number and should be registered with ESI, PF authorities having valid ESI, EPF number. The estimated cost shown below is based on **DSR 2016** rates for scheduled items & current market rates for non-scheduled items.
2. Estimated cost is **Rs. 30,50,919.00/- (Rupees Thirty Lacs Fifty Thousand Nine Hundred Nineteen only)**.
3. Time for carrying out the work will be **12 Months** and the date of commencement shall be reckoned from 10th day of issue of award letter.
4. Complete contract documents, to be complied with by the tenderer, whose tender may be accepted, can be seen in the office of the Superintending Engineer, Engineering Services Division (ESD), CSIO.
5. Tenders should be on the specified form (Non-transferable), which may be obtained from the office of Civil Engineering during office hours up to **18.07.2018** (10.00 AM to 4.00 PM) on payment of **Rs. 500.00** (Rs One Thousand only) in cash (Non-refundable).
6. Tenders should be submitted in sealed covers super scribed with the name of the work, date and time of opening on the envelope. They will be received up to 3.00 PM on **18.07.2018** and will be opened at 3.30 PM on the same day in the office of Committee Room of Admin. Block. Tenders should be handed over to R&I Section in the office of Section Officer (G), CSIO, Sector-30, Chandigarh, before the closing date and time indicated. In case these are sent by post these should be sent by Registered post/speed post addressed to Section Officer (G), CSIO, Sector-30, Chandigarh. Tenderers are to ensure that they post the tender well in advance so as to reach before the closing time and date indicated.
7. The Earnest Money amounting to **Rs. 61,019.00 (Rupees Sixty One Thousand Nineteen only)** in the form of Demand draft or pay order of a scheduled bank and drawn in favour of Director, CSIO, Chandigarh payable at Chandigarh validity upto 3 months from the date of issue of NIT should accompany the tender. **Tender received without earnest money and tender fee will be invalid.**
8. The Employer does not bind himself to accept the lowest or any other tender and reserves to himself the right to accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rates quoted.
9. canvassing in connection with the tenders is prohibited and the tenders submitted by the contractor who resort to canvassing are liable for rejection.
10. The tenderer shall not be permitted to tender for works in the concerned unit of CSIR in which a relative is posted in the grade between Controller of Administration and Junior Engineer, (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or subsequently employed by him and who relatives are as mentioned above.
NOTE: A person shall be deemed to be a relative of another if, (a) they are members of a Hindu undivided family: (b) they are husband and wife: (c) the one is related to the other in the following manner: Father: Mother (including step mother), Son (including step son), Son's wife, Daughter (including step daughter), Father's father, Son's son, Son's Son's wife, Son's daughter, Son's Daughter's husband, Daughter's husband, Daughter's son, Daughter's Son's wife, Daughter's daughter, Daughter's husband, Brother (including step brother), Brother's wife, Sister (including step sister), Sister's husband

I have read and understood all the above terms & condition.

Contractor _____

11. Tender submitted shall remain valid for 90 days from the date of opening for the purpose of acceptance and award of work, validity beyond 90 days from the date of opening shall be by mutual consent.
12. **IMP** The tenderer shall quote rates both in figures and words. He shall also workout the amount for each item of work and writes in both figures and words. On checking if there are differences between the rates quoted by the tenderer in words and figures or in the amount worked out by him, the following procedure shall be followed:
- i) When there is a difference between the rates in figures and words, the rates, which correspond to the amounts worked out by the tenderer, shall be taken as correct.
 - ii) When the amount of an item is not worked out by the tenderer or it does not correspond with the rate written either in figures or in words, the rate quoted by the tenderer in words shall be taken as correct.
 - iii) When the rate quoted by tenderer in figures and in words tallied but the amount is not worked out correctly the rate quoted by the tenderer shall be taken as correct and not the amount.
13. **IMP** **The tenderer should see drawings and incase of any doubt obtain required particulars, which may in any way influence his tender, from the Engineer in charge as no claim, whatsoever, will be entertained for any alleged ignorance thereof.**
14. **IMP** Before tendering, the tenderer shall inspect the site to fully acquaint himself about the condition in regard to accessibility of site, nature and extent of ground, working condition of site and locality including stacking of materials, installation of tools and plants (T&P) etc. conditions affecting accommodations and movement of labour etc. required for the satisfactory execution of the work contract. **No claim whatsoever on such account shall be entertained in future by the Employer in any circumstances.**
15. Earnest Money will be forfeited if the contractor fails to commence the work as per letter of award.
16. Except writing rates and amount, the tenderer should not write any conditions or make any changes, additions alterations and modifications in the printed form of tenders. Tenderers who are desirous to offer rebate the same should be brought out separately in the covering letter and submitted along with the tender.
17. Some of the provisions of General Conditions of Contract are given below. Interpretation however shall be as given in the General Conditions of the Contract.

(a) DEFECT LIABILITY PERIOD: 12 months from the date of completion as certified by the Employer.

(b) MINIMUM VALUE OF WORK FOR THE INTERMEDIATE CERTIFICATE:

Rs. 05 Lacs (Rupees Five lacs) only). Intermediate certificate for a lesser amount can be admitted for payment at the discretion of the Engineer In charge.

Only 4th running and 5th & final bill will be paid.

I have read and understood all the above terms & conditions.

Contractor _____

- (c) **SECURITY DEPOSIT:** A sum @ 10% of the gross amount of the bill shall be deducted from each running bill of the contractor till the sum along with the sum already deposited as earnest money, will amount to security deposit of 5% of the tendered value of the work. In addition, the contractor shall be required to deposit an amount equal to 5% of the tendered value of the work in the form of Bank Guarantee or Govt. Security or FDR pledged in the name of Employer valid for the period of 03 months from the date of completion as per award letter/agreement.
- (d) **COMPENSATION:** Contractor shall pay as compensation an amount equal to one percent or such smaller amount as the Employer (whose decision in writing shall be final) may decide on the amount of the award value of the whole work as shown in the award letter/agreement, for every week that the work remains uncommenced or unfinished or due quantity of work remains incomplete after the proper dates. Compensation to be paid shall not exceed ten percent of the award value of the work as shown in the award letter.
- 18. You may approach the Director of the Organisation within a period of 15 days in the event of any delay in taking the decision, difficulty in making payment etc. along with relevant documents to substantiate your case.
- 19. Contractor / Agency may be asked to obtain completion from indenter /inspection committee at the discretion of the Engineer Incharge, (As the case may be) before final bill is prepared for payment.
- 20. Purchase preference will be given to Central Public Sector Enterprise (CPSE) for award of works costing between Rs.5 crores to Rs.100 crores as per provisions contained in para 20.10.9 in CPWD Manual 2003 and OM No.DPE/13(12)/2003-Fin Vol. II dated 18.07.2005 issued by department of Public Sector Enterprises, Govt. of India.
- 21. Old useable bricks, if available, will be issued for reuse @ Rs. 4000/-per thousand.
- 22. Brick bats, if available, will be issued for use for making brick ballast etc. @ Rs. __270/-_ per cum.
- 23. **Use of Correction fluid anywhere in tender documents is not allowed.** In case use of correction fluid is noticed by Tender Opening Committee, such tender will be cancelled.
- 24. In case of dispute, if any, arises on account of interpretation of terms & conditions of tender documents, only English version will be valid.
- 25. One percent cess from the bills will be deducted as per provision of the Building and other Construction Worker's Welfare Cess Act 1996 and The Building and other Construction Worker's Welfare Cess Rule 1998.

I have read and understood all the above terms & condition and seen all other relevant documents & drawings etc.

Contactora.....

CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION
SECTOR-30C, CHANDIGARH-160030
(CIVIL ENGINEERING SECTION)

CSIO/1380 /2018-19/ESD

NIT No. 02/2018-19/ESD/CSIO/Chd.

| S.No | Description of material | Make and Manufacture's Name |
|------|--|--|
| 1 | OPC and PPC Cement | ACC/Shree Cement/Birla/Ambuja |
| 2 | Ready mix Concrete (R.M.C) | Ultratech/A.C.C/ Lafarge /RMC readymix(india) |
| 3 | Reinforcement Steel | TATA/IISCO/SAIL |
| 4 | Structural Steel | TATA/SAIL or Equivalent |
| 5 | Door Closer | Dorma/Dorset/Universal/Indobrass |
| 6 | Locks | GODREJ/ HETTICH/EBCO |
| 7 | Aluminum Fittings e.g. Handles, Tower bolts etc. | Classic /_Shivalik or equivalent |
| 8 | Glass , Mirror | Saint Gobind/Modi/ASAHI |
| 9 | Flush Door/Board / Ply | Greenply/Kitply /Duro |
| 10 | Prelaminated board | Century/Novapan/ MERINO |
| 11 | Wire gauge | Swastik or Equivalent |
| 12 | Vitrified / Rectified tiles | Kazaria/Nitco (Double Charge) or Equivalent |
| 13 | Wall and floor tiles | Orient/Kazaria/Nitco/Somany |
| 14 | Adhesive for tiles | Roff or Equivalent |
| 15 | G.I. sheet, Profile sheets | TATA/Jindal or Equivalent |
| 16 | PVC pipes or Fittings | Diplast /Supreme/ Polyplastic/ Prince |
| 17 | False Ceiling | Armstrong or Equivalent |
| 18 | Wall Putty | J.K Wall / Birla or Equivalent |
| 19 | Primer for Wood and Steel | Nerolac/ Asian Paint / Berger |
| 20 | OBD, Emulsion paint, Sy. Enamel Paint, Primer | Nerolac/ Asian Paint / Berger |
| 21 | Textured Exterior paint | Snowcem india or Equivalent |
| 22 | Smooth Exterior paint | Asian paints or Equivalent |
| 23 | Tectile Tiles, Paver Blocks | NTC or Equivalent |
| 24 | P.V.C Water Tank | Diplast/Sintex or Equivalent |
| 25 | PTMT Fittings | Prayag or Equivalent |
| 26 | Sanitary Fittings | Jaquar/Cera/ Hindware |
| 27 | Bath CP Fittings | Jaquar or Equivalent |
| 28 | Jet for EWC | Bathcare or Equivalent |
| 29 | CP Grating | Chilly or Equivalent |
| 30 | Towel rod/ring, Toilet paper holder/Soap tray/Soap container | Jaguar/ Ess Ess/ Cera/ Wiking |
| 31 | G.I Pipe and Fittings | Tata / Jindal or Equivalent |
| 32 | G.I. Fittings | SVW/ Unik/PVR |
| 33 | SCI Pipe and Fittings | NIF /BIF or Equivalent |
| 34 | Aluminum Section | Jindal / Hindalco or Equivalent |

Note :- 1.Any other item not specified in the list should be got approved by Engineer-in-charge before use.

BANK DETAIL & OTHER INFORMATION SHEET

C.S.I.O./1380/2018-19/ESD

NIT No. 02/2018-19/ESD/C.S.I.O./Chd.

Name of work: - Maintenance of Office area in CSIO, Chandigarh. (2018-19)

1. Name of the Contractor :

2. Address of the Contractor :

3. Bank Account Number :

4. Name of the Bank :

5. Bank Address :

6. IFSC Code :

7. MICR Code :

8. PAN Number :

9. Service Tax Number :

Signature of the contractor

ARTICLES OF AGREEMENT

ARTICLES OF AGREEMENT MADE AT _____ this _____ day of _____
BETWEEN the Council of Scientific & Industrial Research, New Delhi, a Society registered under the Societies Registration Act 1860 (Hereinafter referred to as the Employer, which expression shall include its successors and assignees and authorised officers of the Society) of the one part and _____ trading in the name and style of; _____ (herein after referred to as the contractors) which expression shall include his their respective heirs, executors, administrators and permitted assignees) of the other part. WHEREAS the Employer is desirous of getting the work of _____; _____' done and has caused drawings, schedule of Quantities and Specifications describing the work to be prepared. AND Whereas the said specifications and the schedule of quantities and other documents have been signed by on behalf of the parties.

NOW IT IS HEREBY AGREED AND DECLARED BY AND BETWEEN THE PARTIES HERETO AS FOLLOWS ;

1. In consideration of the payments to be made to them as hereinafter provided me Contractor shall upon and subject to the conditions hereinafter contained execute and complete, the work at the rates specified in the attached schedule of quantities and with such materials as are provided for and in accordance in all respect with specifications, designs, Drawings and instructions in writing. Time for carrying out the work will be _____ and the date of commencement shall be reckoned from the tenth day of issue of award letter
2. The Employer shall pay to the Contractors such sums as shall become payable here under at the times and in the manner specified in the said conditions.
3. This agreement contains the following documents in addition to pages of Articles of Agreement.
 - (i) General Conditions of Contract Page No _____ to _____'
 - (ii) Special Conditions Page No. _____
 - (iii) Additional Conditions Page No. _____
 - (iv) Indenture for Secured Advance Page No _____ to _____
 - (v) Original tender document along with the covering letter of the firm dated _____ Page No. 1 to _____
 - (vi) _____
 - (vii) _____
 - (viii) _____

in witness whereof the parties hereto have set their respective hands the day and year here in above written.

SIGNED BY, FOR AND ON BEHALF OF EMPLOYER _____.

In the presence of

(1) _____ (2) _____

SIGNED BY THE SAID CONTRACTOR

In the presence of

(1) _____ (2) _____

GENERAL CONDITIONS OF CONTRACT

1. INTERPRETATION

- (a) In construing these conditions, the Specifications, the Schedule of Quantities; Tender, Special Conditions and Agreement, the following words shall have the meanings herein assigned to them except where the subject or context otherwise requires.
- (b) This contract shall comprise of the Articles of Agreement, General Conditions of Contract, Special Conditions, Additional Special Conditions, the Schedule of Quantities, Specifications, letter of acceptance of tender and other documents mentioned in the contents sheet attached hereto and including those to which only reference is made herein.

WORK OR WORKS: It mean all work or works defined in schedule of quantities, specifications and such other work or works as the contractor may be trusted with for carrying out under this contract

"EMPLOYER":

Shall mean Director-General, CSIR or any officer authorized by Director-General for the purpose.

ENGINEER:

Shall mean the Engineer designated by the Employer to superintend and perform other duties as indicated in the contract.

CONTRACTOR:

Shall mean the individual or firm or firms or Company, whether incorporated or not, undertaking the work and shall include the legal personal representative or such individual or the persons composing such Firm or Company or the successors of such Firm or Company and the permitted assignees of such individual or Firm or Firms or Company.

SITE:

Shall mean the site of the contract works including any buildings and erections there on and any ether land adjoining thereto (inclusive) as aforesaid allotted by the Employer or the Engineer for the contractor's use.

COMPENSATION:

Shall mean all sums payable by way of compensation under any of the conditions shall be considered as reasonable compensation without reference to the actual loss or damage sustained and whether or not any damage sustained, and whether or not any damage shall have been sustained. Words imputing persons include firms and corporations; words imputing the singular only also include the plural and vice versa where the context so required. The headings are given to the clauses for convenience and they will not limit the meaning or scope of the clauses in anyway.

2 DRAWINGS AND SPECIFICATIONS

The contractor shall execute whole and every part of the work in the most substantial and workmanlike manner both as regards material and otherwise in every respect in accordance with the specifications. The contractor shall also conform exactly and faithfully to the design, drawings and instructions given in the respect of the work by the Engineer .The contractor shall be furnished free of charge one copy of such specifications and all such designs, drawings and instructions as are not included in the printed publications.

3. CONTRACTOR TO PROVIDE EVERY THING NECESSARY

- (a) The contractor shall provide at his own cost all materials, (except such materials, if any as may in accordance with the contract be supplied by the Employer) plants, tools, appliances, implements, ladders, scaffolding, temporary works, etc. requisite or proper for the execution of the work whether original, altered or substituted and whether included in the specifications or other documents forming part of the contract or which may be necessary for the purpose of satisfying or complying to the requirements of engineer, as to any manner as to which under these conditions he is entitled to be satisfied together with carriage therefore to and from the work. The contractor shall also supply without charge the requisite number of persons with means and materials necessary for the purpose of setting out works and counting, weighing and assisting in the measurement or examination at any time and from time to time of the work or materials. Failing his so doing, the same may be provided by the Engineer at the expense of the contractor and the expenses may be deducted from any money due to the contractor under the contract and/or from his Security Deposit.
- (b) The contractor shall provide himself with requisite quantity and quality of water for carrying out the works at his own cost. If, However, piped water is supplied by the Employer, the contractor shall pay for the water at one percent of the total cost of the work done except on Electrical work, Air- conditioning work and Furniture work. The contractor shall make his own arrangement for water connection and laying of further pipelines from the source of supply of the Employer. It should be clearly understood that the Employer does not guarantee to maintain uninterrupted supply of water and it will be incumbent on the part of the contractor to make alternative arrangement for water at his own cost in event of any temporary break-down in the water mains so that the progress of work is not held up for want of water. No claim as damages or refund of water charges will be entertained on account of such break-downs. However, if the contractor is permitted to make his own arrangement to draw water from a well, hand-pump, or natural river or pond of the Employer, no charges will be made for the water drawn from the same, but the contractor will make good any damage done to the installations and ensure that the quality of water used in the work is conforming to BIS codes and provide for any treatment at his own cost.
- (c) The contractor shall be allowed to construct temporary wells in Employers' land for taking water for construction purpose only after he has permission of the Employer in writing. No charges shall be recovered from the contractor on this account but the contractor shall be required to provide necessary safety arrangement to avoid any accident or damage to adjacent buildings, roads and service lines. He shall be responsible for any accident or damage caused due to construction and subsequent maintenance of the wells and shall restore the ground to its original condition after the wells are dismantled on completion of the work.
- (d) The employer on no account shall be responsible for the expenses incurred by the contractor for hired ground of water obtained from elsewhere.

- (e) Subject availability the employer may supply power at only one point from where the contractor shall make his own arrangement for distribution including provision of electric meters, switches fuses etc. at his own cost. These shall be in the custody of the employer. If there is any hindrance caused to other works the contractor shall reroute or remove such temporary lines without any extra cost. Such temporary lines shall be removed after the completion of work. The cost of power consumed by the contractor shall be payable to the employer at rates fixed by the employer, which would be deducted from the running account bills. However the employer does not guarantee the supply of power and no compensation for any failure or short supply of power shall be entertained.

3A SUFFICIENCY OF TENDER

The contractor Shall be deemed to have satisfied himself before tendering as to correctness and sufficiency of the tender for the works and the rates and the prices quoted in the schedule of items, which rates and the prices shall, except as otherwise provided, cover all his obligations under the contract and all matter and things necessary for the proper completion and maintenance of the works.

4. AUTHORITIES, NOTICES & PAYMENTS

- (a) The contractor shall conform to any regulation and bye-laws of any corporation and of any electricity supply company and authorities with whose systems the structure is proposed to be connected and shall before making any variations from the drawing and specifications that may be necessitated for so conforming by giving written notice to be Engineer specifying the variations proposed to be made, the reasons for making it and apply for instructions there on. If the compliance with this clause involves any extra work not included in this contract, he shall specify these items of work and the allowance of extra payment required on their account.
- (b) The contractor shall give all notices required by the said regulations or bye-laws to be given to any Authority and pay to such Authority or to any public office all fees that may be chargeable in respect of the works and lodge the receipts with the bill to the Engineer for reimbursement.

5. RATES TO INCLUDE ALL TAXES

- (a) Rates quoted by the contractor shall include sales tax, duties, octroi, toll tax, royalties and all other taxes in respect of this contract and the Employer shall not entertain any claim whatsoever in this respect. Tendered rates are inclusive of all taxes and levies payable under the respective statuses. However pursuant to the constitution (Forty Sixth Amendment) Act,1982 if any further tax or levy is imposed by statutes, after the date of receipt of tenders and the contractor thereupon necessarily and properly pays such taxes, levies the contractor shall be reimbursed that amount as per the rules on producing proof of payment so made provided such payments, if any, is not in the opinion of the employer (whose decision shall be final and binding) attributable to delay in executing of work within the control of the contractor.
- (b) The contractor shall keep necessary books of accounts and other documents for the purpose of this condition as may be necessary and shall allow inspection of the same by a duly authorised representative of the employer and further shall furnish such other information and documents as the employer may require.

- (c) The contractor shall within a period of thirty days of imposition of any further tax or levy pursuant to the constitution (Forty Sixth Amendment) Act, 1982 give a written notice thereof to the employer that the same is given pursuant to this condition together with all necessary information relating thereto.

6. MATERIALS

- (a) If the specifications of schedule of items provide for the use of any material to be supplied by the employer's stores or if it is required that the contractor shall use certain stores to be provided by the employer as shown in the schedule of materials here to annexed, the contractor shall be bound to procure and shall be supplied such materials and stores as are from time to time required to be used by him for the purpose of the contract only and value of the materials so supplied at the rates specified in the said schedule of materials and of the quantities incorporated in the work may be set off or deducted from any sums then due, or thereafter to become due to the contractor under the contract or otherwise or against or from the Security deposit. All materials so supplied to the contractor by the employer shall remain the absolute property of the employer and the contractor shall be the trustee of the materials so supplied/procured and the said materials shall not be removed/disposed of from the site of the Work on any account and shall be at all times open for inspection by the engineer or employer. The contractor shall bear all incidental charges for cartage, storage and safe custody of all materials and against damage due to dampness, rain, sun, fire and theft and be fully responsible for their storage and maintenance, any such material unused and in perfectly good condition in the opinion of the employer at the time of the completion of work or termination of the contract, or earlier shall be returned to the employer at a place directed by the Engineer at contractor's cost and at rates stipulated in the said schedule but in case the employer decides not to take back the materials the contractor shall have no claim for compensation or account of any such materials supplied to him as aforesaid being unused by him or for any wastage or damage to any such materials.
- (b) If for any reason there is delay or non-supply of material as shown in the schedule, the contractor shall procure the same and complete the work in time after due intimation and approval of the employer. The difference in price (between his procurement price and price shown in the schedule) shall be paid to the contractor. However in case approval of the employer is not given, only suitable extension of time would be considered and no other claim of compensation/damages shall be payable by the employer.
- (c) After completion of the work or on determination/ termination of the contract, the theoretical quantity of cement to be used in work shall be calculated on the basis of statement showing quantity of cement to be used in different items of work provided in current schedule for the purpose printed by CPWD. In case any item is executed for which the standard constants for the consumption of cement are not available in the above mentioned statement or cannot be derived from this statement, the same shall be calculated on the basis of standard formula to be laid down by the Engineer. Over this theoretical quantity of cement, shall be allowed a variation upto 3% plus/minus for works estimated cost of which as put to tender is not more than Rs. 10 lakhs and upto 2% plus/minus for works estimated cost of which as put to tender is not more than Rs. 10 lakhs. The difference in the quantity actually issued to the contractor and the theoretical quantity including authorised variation, if not returned by the contractor, shall be recovered at twice the issue rate, without prejudice to the provision of the other conditions regarding return of materials governing the contract. In the event of its being discovered that the quantity of cement which is less than the quantity ascertained as herein before provided (allowing variation on minus side as stipulated above) the cost of quantity of cement not so used, shall be recovered from the contractor on the basis of stipulated issue rates and cartage to site.

- (d) The provision of foregoing sub-clause shall apply Mutatis-Mutandis in the case of steel reinforcement or structural steel sections (each diameter/ section or category shall be considered separately) except that the theoretical quantity of the steel shall be taken as the quantity required as per design or as authorised by the Engineer, including lappages, plus 3% wastage due to cutting into pieces. Over this theoretical quantity 2% plus/ minus shall be allowed as variation due to wastage.
- (e) The provision of foregoing sub-clause shall apply Mutatis-Mutandis in the case of cables (other than underground cables), wires, conduits/GI pipes. GI/MS sheets used in various items of work shall be calculated on the basis of measurements recorded in the measurement books for the purpose of payment and for assessing the consumption of material used in the works. Over this quantity a variation of 5% plus shall be allowed for wastage of materials during execution in case cables (other than underground cables), wires, conduits/ GI pipes and 10% plus in case of GI/MS sheets.
- (f) The provisions made above are without prejudice to the right of the Employer to take action against the contractor under the conditions of the contract for not doing the work according to the prescribed specifications.
- (g) "In case of easy availability of approved quality of cement and steel in the open market it will be Employer's discretion to make these items as contractor's supply.

7. TESTING OF MATERIALS

The contractor shall provide assistance, instruments, materials, labour and any other arrangement normally required for testing, checking of materials and workmanship as "stipulated in the specifications and by statutory authority at his own cost. The Employer has the right to appoint the testing authorities. The contractor shall pay for the cost of test samples, its packing, transportation including testing fees. Failing his so doing, the same shall be provided by the Engineer at the expense of the contractor and the expenses may be deducted from any money due to the contractor under the contract and /or from the Security Deposit or proceeds thereof or of a sufficient portion thereof.

8. CONTACT'S ENGINEER/FORMAN & WORKMEN

- (a) The contractor shall give all necessary personal superintendence during the execution of the work and as long thereafter as the Engineer may consider necessary until the expiration of Defect Liability Period. The contractor shall employ competent site-Engineer/ foreman as per CPWD norms and as approved by the Engineer whose qualification must conform to the requirement specified by the Engineer who shall be constantly in attendance of the work while the men are at work. Any directions, explanations, instructions or notices given by the Engineer to such Site-Engineer or Foremen or any other authorised agent shall be held to be given to the contractor "Annexure (i) refers."
- (b) The contractor shall on the direction of the Engineer immediately dismiss from the works any person employed there on who may in the opinion of the Engineer be unsuitable or incompetent or who may in the opinion of the Employer misconduct himself.

9. ACCESS

- (a) The Engineer and the Employer or its representative shall at all reasonable time have free access to the works and/or workshops, factories or other places the materials are being prepared or constructed for the contract and also to any place where the materials are lying or from which they are being obtained and the contractor shall give every facility to them for inspection. Except the representatives of statutory authorities and those mentioned above no other person shall be allowed on the works at any time without the permission of the Engineer.
- (b) If any work is to be done at a place other than the site of works, contractor shall obtain written permission of the Engineer.

10. VARIATION & PRICE FOR VARIATION

- (a) The Engineer with the approval of the Employer shall have power to make any alteration/ omissions/ additions and /or substitutions from the original specifications, drawings, designs, and written instructions and such alterations, omissions, additions, substitutions shall not invalidate the contract and any altered, additional or substituted work which the contractor may be directed to do in the manner specified above as part of the work shall be carried out by the contractor on the same conditions in all respects on which he agreed to do the main work. the rates for such altered, additional or substituted work under this clause shall be worked out in accordance with the following provisions in their respective order.
- (b) If the rates for the altered, additional, substituted work are specified in the contract for the work, the contractor is bound to carry out the altered, additional, or substituted work at the same rates as are specified in the contract for the work.
- (c) If the rates for the altered, additional, or substituted work are not specifically provided in the contract for the work, the rates will be derived from the rates for a similar class of work as are specified in the contract for the work.
- (d) If the rates for the altered, additional, or substituted work cannot be determined in the manner specified in sub- clause (b) and (c) above, then the contractor shall, within 10 working days from the date of receipt of the order to carry out the work through notice in writing, inform the Engineer of the rate which it is his intention to charge for such class of work, supported by analysis of the rate claimed which shall be based on actual cost of work plus 10% as contractor's profit and overheads shall be 2.5%. when such notice has been given, the Engineer with the consent of the Employer may agree to such a rate but if the Engineer does not agree to the contractors rate the Engineer may cancel his order to carry out such class of work and arrange to carry out in such a manner as he may consider advisable.
- (e) Under no circumstances, the contractor shall suspend the work on the plea of non settlement of rates of items falling under the clause.
- (f) "deviation limits"

| | |
|-----------------------------|------|
| Building work. | 30% |
| Maintenance /Emergency work | 50% |
| Foundation works | 100% |
| Services work | 30% |

11. FAULTY MATERIALS, WORKMANSHIP & DEFECTS AFTER COMPLETION

- (a) The Engineer shall have powers to require the removal from the site of all materials and work which in his opinion are not in accordance with specifications and in case of default, the Engineer shall be at all liberty to employ other persons to remove the same without being answerable or accountable for any loss or damage that may happen or arise to such materials to be substituted thereof and in case of default the Engineer may cause the same to be supplied and all costs which may attend such removal and/or substitution are to be borne by the contractor.
- (b) If it shall appear to the Engineer or to the employer based on audit/technical examination that any work has been executed with unsound, imperfect, or unskilful workmanship or with materials of any inferior description, or that any materials or articles provided by him for the execution of the work are unsound or of a quality inferior to that contracted for or otherwise not in accordance with the contract, any defects shrinkage or other faults which may appear within the defects liability period of twelve months from the date of completion arising in the opinion of the Engineer, the contractor shall on demand in writing which shall be made within twelve months of the completion of the work from the Engineer specifying the work, materials articles defects or other faults complained of notwithstanding that the same may have been passed, certified and paid for, forthwith rectify, or remove and reconstruct the work so specified in whole or in part, as the case may require or as the case may be, remove the materials or articles so specified and provide other proper and suitable materials or articles at his own cost. In case of any such failure, the Engineer may rectify or remove or re-execute the work or remove and replace with others, the material or articles complained of as the case may be at the risk and cost in all respects of the contractor.
- (c) In lieu of rectifying the work not done in accordance with the contract, the Employer may, allow such work to remain, and in that case make allowance for the difference in value, together with such further reduction as in his opinion may be reasonable.
- (d) Provided always that nothing in this clause shall relieve the contractor from his liability to execute the works in all respects in accordance with the terms and conditions of this contract, or from his liability to make good all defects.

12. WORKS TO BE OPEN FOR INSPECTION

- (a) All work under or in course of execution or executed in pursuance of the contract shall at all times be open to the inspection and supervision of the Engineer and the contractor shall at all times during the usual working hours, and all other times at which reasonable notice of the intention of the Engineer to visit the works shall have been given to the contractor, either himself be present to receive order and instruction or have a responsible agent duly a credited in writing present for that purpose.

- (b) The contractor shall give not less than seven days notice in writing to the Engineer before covering up or otherwise placing beyond the reach of measurement any work in order that the same may be measured and correct dimensions thereof be taken before the same is so covered up or placed beyond the reach of measurement and shall not cover up and place beyond the reach of measurement, any work without the consent in writing of the Engineer and the Engineer shall within the aforesaid period of seven days inspect the work, and if any work shall be covered up or placed beyond the reach of measurement without such notice having been given or the Engineer's consent obtained the same shall be uncovered at the contractor's expense or in default thereof no payment or allowance shall be made for such work or the materials with which the same was executed.

13. ASSIGNMENT OR SUB-LETTING

- (a) The contract shall not be assigned or sublet without the written approval of the Employer. And if the contractor shall assign or sub-let his contract or attempt to do so or become insolvent or commence any insolvency proceedings or make any composition with his creditors or attempt to do so or if any bribe, gratuity or gift, loan, perquisite, reward or advantage pecuniary or otherwise, shall either directly or indirectly, be given, promised or offered by the contractor or any of his servants or agents to any person in the employment of the Employer in any way relating to his office or employment, or if any such employee or person shall become in any way directly or indirectly interested in the contract, the Employer shall have the power to adopt any of the courses specified under clause 23 as may be best suited to the interest of the Employer and in the event of any of the courses being adopted the consequences specified in the said clause shall ensure.
- (b) Where the contractor is a partnership firm, the approval in writing of the Employer shall be obtained before any changes in the constitution of the firm. Where the contractor is an individual or a Hindu undivided family business concern such approval as aforesaid shall likewise be obtained before the contractor enters into any partnership agreement hereunder the partnership firm would have the right to carry out the work hereby undertaken by the contractor. If previous approval as aforesaid is not obtained, the contract shall be deemed to have been assigned or sublet in contravention of clause 13(a) and the same action may be taken and the same consequences shall ensue as provided in the said clause 13(a).

14. INDEMNIFYING AGAINST DAMAGES TO PERSONS, PROPERTY & STATUS

The contractor shall take all precautions to avoid all accidents by exhibiting necessary caution boards day and night, speed limit boards, red flags, red lights and providing barriers. He shall be responsible for all damages and accidents caused due to negligence on his part. No hindrance shall be caused to traffic during the execution of work.

- (a) The contractor shall be responsible for all injury to persons, animals or things, and for all damage, whether such injury or damage arises from carelessness or accident in any way connected therewith. This clause shall be held to include inter alia any damage due to causes as aforesaid to work, building (whether immediately adjacent or otherwise) and to roads, streets, foot paths, bridges or ways as well as all damage caused to the buildings and works forming the subject of this contract by inclemency of weather. The contractor indemnifies the Employer and holds him harmless in respect of all expenses arising from such injury or damages as aforesaid and also in respect of any award of compensation or damage consequent upon such claim including legal costs.

- (b) The contractor shall reinstate all damage of every sort mentioned in this clause, so as to deliver the whole of the contracted works complete and perfect in every respect and so as to make good and otherwise satisfy all claims for damage as aforesaid to the property of third parties.
- (c) The contractor also indemnifies the Employer against all claim which may be made upon the Employer for acts during the currency of this contract by any employee or representative of an employee of the contractor or any sub-contractors, employed by hi, for any injury to or loss of life, of such employees, or for compensation payable under any law for the time being in force to any workmen or to the representative of any deceased or in capacitated workmen.
- (d) The contractor also indemnifies the Employer against all claims which may be made upon the Employer for acts during the currency of this contract by the Central/State Government or local Municipal authorities for the none Compliance of any laws, regulations, rules pertaining to wages act, safety act in force and any amendments thereof in respect of all labour and apprentices directly or indirectly employed in the work under this contract.
- (e) The Employer shall be at liberty and is hereby empowered to deduct the amount of any damages, compensation cost, charges and/or expenses arising or accruing from or in respect of any such claim and/or damages as aforesaid from any sum or sums due or to become due to the contractor or security deposit.
- (f) The contractor shall indemnify the Employer against any action, claim or proceedings relating to infringement or use of any patent or design or any alleged patent or design rights and shall pay any royalties which may be payable in respect of any article or part thereof included in the contract. In the event of any claims made under or action brought against the Employer in respect of any such matters as aforesaid the contractor shall be immediately notified thereof and the contractor shall be at liberty, at his own expense, to settle any dispute or to conduct any litigation that may arise there from. Provided that the contractor shall not be liable tyo Indemnify the Employer if the infringement of the patent or design or any alleged patent or design right is the direct result of an order passed by the said Employer or his authorised representative.

15. LIEN IN RESPECT OF CLAIM IN OTHER CONTRACTS

- (a) Any sum of money due and payable to the contractor including the security deposit under the contract may be withheld or retained by way of lien by the Employer or Government of any other contracting persons or persons against any claim of the Employer or Government or such other persons in respect of payment of a sum of money arising out of or under any other contract made by the contractor with the Employer or Government or with such other persons.
- (b) It is agreed term of the contract that the sum of money so withheld or retained under this clause by the Employer will be kept withheld or retained as such by the Employer or till his claim arising out of in the same contractor any other contract is either mutually settled or determined by the Arbitrator if the contract is governed by arbitration clause or by the competent court as the case may be, and that the contractor shall have no claim for interest or damages whatsoever on this account or any other ground in respect of any sum of money withheld or retained under this clause and duly notified as such to the contractor.

16. WITHHOLDING & LIEN IN RESPECT OF SUMS CLAIMED

- (a) Whenever any claim or claims for payment of a sum of money arises out of or under the contract against the contractor, the Employer shall be entitled to withhold and also have a lien to retain such sum or sums in whole or in part from the security deposit, if any deposited by the contractor and for the purpose aforesaid, the Employer shall be entitled to withhold the security deposit, if any, furnished as the case may be and also have a lien over the same pending finalisation or adjudication of any such claim. In the event of the security deposit being insufficient to cover the claimed amount or amounts or if no security deposit has been taken from the contractor, the Employer shall be entitled to withhold and have a lien to retain to the extent of such claimed amount or amounts referred to above, from any sum or sums found payable or which at any time thereafter may become payable to the contractor under the same or any other contract with the Employer or and contracting person pending finalisation or adjudication of any such claim.

It is an agreed term of the contract that the sum of money so withheld or retained under the lien referred above, by the Employer will be kept withheld or retained as such by the Employer till that claim arising out of or under the contract is determined by the Arbitrator (if the contract is governed by the arbitration clause) or by the competent court as the case may be and the contractor will have no claim for interest or damages whatsoever on any account in respect of such withholding or retention under the lien referred to above and duly notified as such to the contractor . For the purpose of this clause, where the contractor is a partnership firm or a limited company the Employer shall be entitled to withhold and also have a lien to retain towards such claimed amount or amounts in whole or in part from any sum payable to any Partner/Limited company, as the case may be, whether in his individual capacity or otherwise.

- (b) The Employer shall have the right to cause an audit and technical examination of the works and the final bills of the contractor including all supporting vouchers, abstract etc. to be made after payment of the final bill and if as a result of such audit and technical examination any sum is found to have been over paid in respect of any work done by the contractor under the contract or any work claimed by him to have been done by him under the contract and found not to have been executed the contractor shall be liable to refund the amount of overpayment and it shall be lawful for the Employer to recover the same from him in the manner prescribed in sub-clause (a) of this clause or in any other manner legally permissible, and if it is found that the contractor was paid less than what was due to him under the contract in respect of any work executed by him under it, the amount of such under payment shall be duly paid by the Employer to the contractor.

Provided that the Employer shall not be entitled to recover any sum over-paid, nor the contractor shall be entitled to payment of any sum paid short where such payment has been agreed upon between the Employer on the one hand and the contractor on the other hand, under any term of contract permitting payment for work after assessment by the Employer.

17. IN-CASE OF DEATH OF CONTRACTOR

Without prejudice to any of the rights or remedies under this contract, if the contractor dies, the Employer shall have the option of terminating the contract without compensation to the contractor.

18. SUB-CONTRACTORS

The Employer reserves the right to use the premises and any portion of the site for the execution of any work not included in the contract. The contractor is to afford all reasonable facilities to all subcontractors, specialists, merchants, tradesmen and others who may at any time be appointed by the Employer for executing any work or supplying any goods relating to the construction servicing equipping or furnishing of the work under this contract.

19. COMPLIANCE TO LABOUR LAWS & APPRENTICE ACT

The contractor shall comply with all the provisions of the Minimum wages Act, 1948 contract Labour (Regulation and Abolition) Act, 1970 and rules and orders framed there under and other labour laws affecting contract labour and Apprentice Act, 1961 and the rules and orders framed thereunder that may be in force or brought into force from time to time.

“

Contractor shall obtain a valid licence under contract Labour (R & A) Act 1970 and Contract Labour (R & A) Central Rule 1971 before commencing work and which should be valid till the completion”.

20. COMPENSATION FOR DELAY

- (a) The time for carrying out the work as entered in the tender shall be strictly observed by the contractor and shall be deemed to be the essence of the contract on the part of the contractor. The work shall throughout the stipulated period of the contract be proceeded with all due diligence and the contractor shall pay as compensation an amount equal to one per cent or such smaller amount as the Employer (Whose decision in writing shall be final) may decide on the amount of the whole work as shown in the agreement for every week that the work remains uncommenced or unfinished after the proper dates.

- (b) And further to ensure good progress during the execution of the work, the contractor shall be bound in all cases in which the time allowed for any work exceeds one month (save for special jobs) to complete one-eighth of the whole of the work before one-fourth of the whole time allowed under the contract has elapsed; three eights of the work before one-half of such time has elapsed and three-fourths of such time has elapsed. However for special jobs if a time schedule has been submitted by the contractor and the same has been accepted by the Employer, the contractor shall comply with the said time schedule. In the event of the contractor failing to comply with this condition, he shall be liable to pay as compensation an amount equal to one per cent or such smaller amount as the Employer (whose decision in writing shall be final) may decide on the said cost of the Work for every week that the due quantity of work remains incomplete. Provided that the entire compensation to be paid under the provisions of this clause shall not exceed ten per cent on the cost of the work as shown in the agreement.

21. DAMAGE TO WORKS IN CONSEQUENCE OF HOSTILITIES OR WAR-LIKE OPERATIONS

- (a) The work (whether fully constructed or not) and all materials, machines, tools and plants, scaffolding, temporary buildings and other things connected therewith shall be at the risk of the contractor until the work has been delivered to the Employer and a certificate from him to that effect obtained. In the event of the work or any materials properly brought-to the site for incorporation in the work being damaged or destroyed in consequence of hostilities or war-like operations, the contractor shall, when ordered in writing by the Employer, remove any debris from the site, collect and properly stack or remove in store all serviceable materials salvaged from the damaged work and shall be paid at the contract rates in accordance with the provision of this agreement for the work of clearing the site of debris, stacking, removal of serviceable materials and for the reconstruction of all works ordered by the Employer such payment being in addition to compensation upto the value of the work originally executed before being damaged or destroyed and not paid for. In case of works damaged or destroyed but not already measured and paid for the compensation shall be assessed by the Employer. The contractor shall be paid for the damage/destruction suffered and for restoring the material at the rates based on the analysis of rates tendered for in accordance with the provision of this agreement. The certificate of the Employer regarding the quality and quantity of materials and the purpose for which they were collected shall be final binding on the contractor.
- (b) Provided always that no compensation shall be payable for any loss in consequence of hostilities or war-like operations (i) unless the contractor had taken all such precautions against Air Raid as are deemed necessary by the A.R.P Officers or the Employer, (ii) for any materials etc. not on the site of the work or for any tools and plant, machinery, scaffolding, temporary buildings and other things not intended for the work.
- (c) In the event of the contractor having to carry out reconstruction as aforesaid, he shall be allowed such extension of time for its completion as is considered reasonable by the Employer.

22. EXTENSION OF TIME

- (a) If the contractor shall desire an extension of time for the completion of the work on the grounds of his having been unavoidably hindered in its execution or any other ground, he shall apply in writing to the Employer within thirty days of the date of hindrance on account of which he desires extension-as aforesaid, and the Employer shall, if in his opinion (which shall be final) reasonable grounds shown therefor, authorise such extension of time if any, which may, in his opinion, be necessary or proper.
- (b) In the event, the value of work exceeds the value of the Bill of Quantities owing to variations the contractor shall be entitled to ask for extension of time in proportion to the increased value of work.

23. SUSPENSION OF WORK BY CONTRACTOR

- (a) The Employer may without prejudice to his right against the contractor in respect of any delay or interior workmanship or otherwise or to any claims for damages in respect of any breached of the contract and without prejudice to any rights or remedies under any of the provisions of this contract or otherwise and whether the date for completion has or has not elapsed by notice absolutely determine the contract in any of the following cases:
- (i) If the contractor having been given by the Engineer a notice to rectify, reconstruct or replace any defective work or that the work is being performed in any inefficient or otherwise improper or unworkman-like manner shall omit to comply with the requirements of such notice for a period of seven days thereafter or if the contractor shall delay or suspend the execution of the work so that in the judgment of the Employer (which shall be final and binding) he will be unable to ensure completion of the work by the date for completion or he has already failed to complete the work by that date.
 - (ii) If the contractor being a company shall pass a resolution or the court shall make an order that the company shall be bound up or if a receiver or a manager on behalf of a creditor shall be appointed or if circumstances shall arise which entitle the court of creditor to appoint a receiver or a manager or which entitle the court to make a binding up order.
 - (iii) If the contractor commits breach of any of the terms and conditions of this contract.
 - (iv) If the contractor commits any acts mentioned in Clause – 13 thereof.
- (b) When the contractor has made himself liable for action under any of the cases aforesaid, the Employer shall have the following powers:
- (i) To determine or rescind the contract as aforesaid (of which termination or rescission notice in writing to the contractor under the hand of the Employer shall be conclusive evidence). Upon such determination or rescission the security deposit of the contractor shall be liable to be forfeited and shall be absolutely at the disposal of the Employer.
 - (ii) The Employer may employ labour paid by the Employer and to supply materials to carry out the work or any part of the work debiting the contractor with the cost of the labour and the price of the materials (of the amount of which cost and price certified by Engineer shall be final and conclusive against the contractor) and crediting him with the value of the work done in all respects in the same manner and at the same rates as if it had been carried out by the contractor under the terms of his contract. The certificate of the Engineer as to the value of the work done shall be final and conclusive against the contractor, provided always that action under the sub-clause shall only be taken after giving notice in writing to the contractor. Provided also that if the expenses incurred by the Employer are less than the amount payable to the contractor at his agreement rates, the difference should not be paid to the contractor.
 - (iii) After giving notice to the contractor to measure up the work of the contractor and to take such part thereof as shall be unexecuted out of his hands and to give it to another contractor to complete in which case any expenses which may be incurred in excess of the sum which would have been paid to the original contractor if the whole work had been executed by him (of the amount of which exceed the certificate in writing of the Engineer shall be final and conclusive) shall be borne and paid by the original contractor and may be deducted from any money due to him by the Employer under this contract or any other account whatsoever or from his security deposit.

- (iv) In the event any one or more of the above courses being adopted by the Employer the contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any engagements or made any advances on account or with a view to the execution of the work or the performance of the contract. And in case action is taken under any of the provisions aforesaid, the contractor shall not be entitled to recover or be paid any sum for any work thereof or actually performed under this contract unless and until the Engineer has certified in writing the performance of such work and the value payable⁴ in respect thereof and he shall only be entitled to be paid the value so certified.

24. SECURED ADVANCE

The contractor on signing an indenture in the form specified by the Employer during the progress of the execution of the work may be paid if agreed by the Employer upto 75 per cent of the estimated value which shall take into account the market value and contractors tendered rates for the finished item of any material which in the opinion of the Engineer is likely to be incorporated in the work within next three months, are non perishable and are in accordance with the contract and which have been brought on the site in connection therewith and are adequately stored and protected against damage by weather or other causes but which have not at the time of advance been incorporated in the works. When materials on account of which an advance has been made under this clause are incorporated in the work the amount of such advance shall be deducted from the next payment made under any of the clause or clauses of this contract.

25. CERTIFICATES & PAYMENTS

- (a) No payments shall be made for a work estimated to cost Rupees ten thousand or less till the whole of the work shall have been completed and certificate of completion given. But in the case of a work estimated to cost more than Rupees ten thousand, the contractor shall on submitting the bill be entitled to receive a monthly payment proportionate to the part of the work executed, and to the satisfaction of the Engineer, whose certificate of the sum so payable shall be final, and conclusive against the contractor, provided the amount of work done is as per the value of intermediate certificate or for a lesser amount at the discretion of the Engineer as mentioned in the NIT. All such intermediate payments shall be regarded as payments by way of advance against the final payment only and not as payments for work actually done and completed and shall not preclude the requiring of bad, unsound, imperfect or unskilled work to be removed and taken away and reconstructed or reerected or be considered as an admission of the due performance of the contract, of any part thereof in any respect or the accruing of any claim nor shall it conclude, determine, or affect in any way the powers of the Employer under these conditions or any of them as to the final settlement and adjustment of the accounts or in any other way vary or affect the contract. The final bill shall be submitted by the contractor within two months of the date fixed for the completion of the work or of the date of the certificate of completion furnished by the Employer and payment shall be made within three months if the value of the completed works is Upto Rs. 2 lakhs and in six months if the same exceeds Rs. 2 lakhs of the submission of such bill, if there shall be any dispute about any item or items of the work then the undisputed item or items only shall be paid within the said period of three months or six months as the case may be.

- (b) Whenever there is likely to be delay in recording detailed measurements for making a running payment advance payment without detailed measurements for work done worked out at 75 per cent of the tendered rates for assessed quantities may be made in running account bills by the Employer on the basis of a certificate from the Engineer. The advance payments so allowed shall be adjusted in the subsequent running bills by taking detailed measurement thereof. Final payments shall be made only on the basis of detailed measurements.
- (c) A bill shall be submitted by the contractor each month or or before the date fixed by the Engineer on printed forms obtainable from the Engineer's office. The Engineer shall take or cause to be taken the requisite measurements for the purpose of having the same verified and the claim, as far as admissible, adjusted as far as possible, before the expiry of ten days from the presentation of the bill. If the contractor⁴ does not submit the bill within the time fixed as aforesaid the Engineer may cause action within seven days of the date fixed as aforesaid, an authorised representative to measure up the said work in the presence of the contractor whose signature to the measurement will be sufficient warrant and the Engineer may prepare the bill from such measurements.
- (d) Before taking any measurement of any work the Engineer or his authorised representative deputed by him shall give reasonable notice to the contractor. If the contractor falls to attend after such notice or falls to sign or to record the difference within a week from the date of measurement in the manner required by the Engineer then in any such event the measurements taken by the Engineer or by the authorised representative deputed by him as the case may be shall be final and binding on the contractor and the contractor shall have no right to dispute the same.
- (e) The charges in the bills shall always be entered at the rates specified in the agreement or in the case of any extra work ordered in pursuance of these conditions and not mentioned or provided for in the agreement at the rate determined as per clause-10. However in case of partially executed items of work, the Employer at his discretion allows proportionate rates for such items of work as determined by the Engineer whose certificate of the sum so payable shall be final and conclusive against the contractor.

26. SECURITY DEPOSIT

- (a) A sum @ 10% of the gross amount of the bill shall be deducted from each running bill of the contractor till the sum along with the sum already deposited as earnest money, will amount to security deposit of 5% of the tendered value of the work. In addition, the contractor shall be required to deposit an amount equal to 5% of the tendered value of the contract as Performance security within the period prescribed for commencement of work in the letter of award issued to him.

- (b) In case a fixed deposit receipt of any scheduled bank is furnished by the contractor to the Employer as part of the security deposit and the bank goes into liquidation or for any reason is unable to make payment against the said fixed deposit receipt, the loss caused thereby shall fall on the contractor and the contractor shall forthwith on demand furnish additional security to the Employer to make good the deficit of such sum from the running bill as mentioned above. Such deductions will be held by the Employer by way of security deposit, provided always that the Employer for this purpose shall be entitled to recover the said percentage of the amount from each running bill till the balance of the amount of security deposit is released. All compensation or the other sums of money payable by the contractor under the terms of this contract may be deducted from the security deposit or from the interest arising therefrom or from any sums which may be due to or may become due to the contractor by the Employer on any account whatsoever and in the event of his security deposit being reduced by reason of any such deductions aforesaid, the contractor shall within ten days make good in cash or further fixed deposit receipt pledged in favour of the Employer. The security deposit shall be collected from the running bills of the contractor at the rates mentioned above and the earnest money if deposited at the time of tenders will be treated as part of the security deposit.
- (c) The contractor if he so desires may furnish fixed deposit receipt in advance towards the security deposit. Such fixed deposit receipt shall be of a minimum value of Rs.25000/- each (The last such fixed deposit receipt could be of a lower value on the basis of the amount). In case any recovery is effected from running account bills, such recovered amount shall not be replaced with fixed deposit receipt. It is in the contractor's interest to keep a watch about the adequacy of the fixed deposit receipt submitted.
- (d) No partial refund of security deposit shall be made during the defect liability period in case the final bill is not settled within stipulated period for reasons beyond control and the Employer is satisfied that the security deposit is not required for adjustment of Employer's dues or whatsoever dues either in this or any other contract then the security deposit either in full or in part could be refunded at the sole discretion of the Employer. "However, release of security deposit would be only after written clearance of Labour Officer regarding no dues or claims is received.
- (e) In case of termination of contract, this security deposit shall be forfeited and amount necessary to make up this amount shall be recovered from money due to the contractor under this contract, or any other contract with the Employer.

27. COMPLETION CERTIFICATE

Within ten days of the completion of the work, the contractor shall give notice of such completion to the Employer and within ten days of the receipt of such notice the Engineer shall inspect the work. If there is no defect in the work the Employer shall furnish the contract with a certificate of completion otherwise a certificate of completion indicating defects shall be issued but the work shall not be considered to be completed until the contractor shall have removed from the premises on which the work shall be executed all the scaffolding, surplus material, rubbish, and all huts and sanitary arrangements required for his work, people on site in connection with the execution of the works as shall have been erected or constructed by the contractor and cleaned of the dirt, splashes, droppings of finishing items from all wood work, doors, windows, walls, floors or other parts of any building, in upon or about which the work is to be executed or of which he may have had possession for the purpose of the execution thereof. If the contractor shall fail to comply with requirements of this clause on or before the date fixed for the completion of the work, the Employer may at the risk and cost of the contractor take action as he may think fit and the contractor shall have no claim except for any sum actually released by the sale thereof.

28. ESCALATION

- (a) Escalation:- If the prices of materials not being supplied by the Employer and/or wages of labour required for execution of the work increase, the contractor shall be compensated for such increase as per provision detailed below and the amount of the contractor shall accordingly be varied, subject to the condition that compensation for escalation in prices shall be available only for the work done during the stipulated period of the contract including such period for which the contract is validly extended under the provision of clause 22 of General Conditions of Contract without levy of compensation under Clause 20 of General Condition of Contract and also subject to the condition that no such compensation shall be payable for a work for which the stipulated period of completion is eighteen months or less. Such compensation for escalation in the prices of materials and labour when due, shall be worked out based on the provision.
- (ii) The index(M1 or L1) relevant to any six months for which such compensation is paid shall be the arithmetical average of the indicates relevant to the six calendar months. If the period upto date of completion after the six months covered by the last such installment of payment is less than six months, the index M1 or L1 shall be the average of the indicates for the months falling within that period.
- (iii) The base index (MIO or LIO) shall be the one relating the month in which the tender was stipulated to be received.
- (c) In the event the price of materials and or wages of labour required for execution of the work decreases there shall be downward adjustment of the cost of work so that the price of materials and/ or wages of labour shall be deductible from the cost of work under this contract and in this regard formula herein before stated under this clause shall mutatis mutandis apply, provided that no such adjustment for the decrease in the prices of materials and / or wages of labour aforementioned would be made in the case of contracts in which the stipulated period of completion of the work is eighteen months or less.
- (e) Employer shall have the discretion to permit the IEEMA (Indian Electrical & Electronics Manufacturers Association) clause for escalation in case of specialized works e.g. lifts and electrical and mechanical installation etc. where the price variation if not similar to building works.

29. ARBITRATION

- (a) Except where otherwise provided in the contract, all questions and disputes relating to the interpretation of the specifications, designs, drawings and instructions herein before mentioned, and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating the contract, design, specifications, estimates, instructions, orders-on these conditions or otherwise concerning the works, or the execution or failure to execute the same, whether arising during the progress of the work or after the completion or abandonment thereof shall be referred to the sole arbitration of the person appointed by the Director-General, Council of Scientific and Industrial Research. The arbitrator shall be appointed within 30 days from the receipt of a request by any party. The arbitrator to whom the matter is originally referred, being unwilling or unable to act for any reason, the Director-General shall appoint another person to act as of Arbitrator in accordance with the terms of the contract, such person shall be entitled to proceed with the reference from the stage at which it was left by his predecessor. The arbitrator shall give a speaking award. The award of the Arbitrator shall & final and binding on the parties. The cost of the Arbitrator shall be borne equally by both the parties.
- (b) It is also a term of the contract that the party invoking arbitration shall specify the dispute or disputes to be referred to arbitration under this clause together with the amount or amounts claimed in respect of each such dispute.
- (c) It is also a term of the contract that if the contractor does not make any demand for arbitration in respect of any claim in writing within 90 days of receiving the intimation from the Employer that the final bill is ready for payment, the claim of the contractor will be deemed to have been waived and absolutely barred and the Employer shall be discharged and released of all liabilities under the contract in respect of these claims.
- (d) Subject as aforesaid the provisions of the Arbitration and conciliation Act, 1996, or any statutory modification or re-engagement thereof and the rules made there under and the time being in force shall apply to the arbitration reference under this clause.

30. DISMANTLED MATERIAL

The contractor shall treat all material obtained during dismantling of a structure, services sub system/installations, excavation of the site for a work etc. as Employer's property and such material shall disposed of to the best advantage of the Employer according to instructions issued in writing by the Engineer.

31. PERFORMANCE GUARANTEE

Performance Guarantee may be taken from the contractor before the award of work by the officer authorised to award the contract, if any where considered necessary to ensure that a part or whole of the contract is completed by the contractor. In case of none-performance, this guarantee could be encashed.

******SPECIAL CONDITIONS******

1. These special conditions are meant to amplify the general specifications and general conditions of contract.
2. In case of any discrepancy, the order of precedence in interpretation shall be as under:-
 - i) Schedule of quantities
 - ii) Drawings
 - iii) Additional Conditions
 - iv) General Conditions of contract
 - v) Special Conditions
 - vi) Additional Technical Specifications
 - vii) CPWD latest civil and Electrical specifications
 - viii) I.S. codes
 - ix) International codes
 - x) Best Engineering practice

STEEL

1. The Contractor shall procure steel reinforcement bars confirming to relevant BIS codes from reputed manufactures (or their authorised dealers) as approved by Engineer-in-Charge. The contractor shall have to obtain and furnish test certificates to the Engineer-in-Charge in respect of all supplies of steel brought by him to the site of work. Samples shall also be taken and got tested by the Engineer-in-Charge as per the provisions in this regard in relevant BIS codes. In case the test results indicate that the steel arranged by the contractor does not confirm the BIS codes, the same shall stand rejected and shall be removed from the site of work by the contractor at his cost within a week's time from written orders from the Engineer-in-Charge to do so.
2. The steel reinforcement shall be brought to the site in bulk supply of 10 tonnes or more as decided by the Engineer-in-Charge.
3. The steel reinforcement shall be stored by the contractor at the site of work in such a way as to prevent distortion and corrosion and nothing extra shall be paid on this account Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking.
4. For checking nominal mass, tensite strength, bend test, rebend test etc. specimen of sufficient length shall be cut from each size of the bar at random at frequency not less than that specified below:-

| Size of bar | For consignment below 100 tonnes | For consignment over 100 tonnes |
|--------------------|---|---|
| Under 10 mm dia | One sample for each 25 tonnes or part thereof | One sample for each 40 tonnes or part thereof |
| 10 mm to 16 mm dia | One sample for each 35 tonnes or part thereof | One sample for each 45 tonnes or part thereof |
| Over 16 mm dia | One sample for each 45 tonnes or part thereof | One sample for each 50 tonnes or part thereof |

5. The contractor shall supply free of charge the steel required for testing. The cost of tests shall be borne by the contractor.
6. The actual issue and consumption of steel of work shall be regulated and proper accounts maintained as provided in Clause 6 of the contract. The theoretical consumption of steel shall be worked out as per procedure in Clause 6 of the contract and shall be governed by conditions laid therein.
7. Steel brought to site and steel remaining unused shall not be removed from site without the written permission of the Engineer-in Charge.

CONDITIONS FOR CEMENT

1. The Contractor shall procure 33 grade (confirming to IS:269) or 43 grade (conforming to IS : 8112) ordinary Portland cement or Portland Pozzolona Cement, as required in the work, from reputed manufacturers of cement (or their authorized dealers) having a production capacity of one million tones per annum or more, such as ACC, L&T, J.P.Rewa, Vikram, Shri Cement, Birla Jute, ambuja and Cement Corporation of India etc. as approved by Ministry of Industry, Government of India and holding license to uses ISI certification mark for their product whose name shall be got approved from Engineer-in Charge. Supply of cement shall taken in 50 kg bags bearing manufacturer's name and ISI marking samples of cement arranged by the contractor shall be taken by the Engineer-in-Charge and got tested in accordance with provisions of relevant BIS codes. In case the test results indicate that the cement arranged by the contractor does not conform to the relevant BIS codes, the same shall stand rejected and shall be removed from the site by the contractor at own cost within a week's time of written orders from the Engineer-in-Charge to do so.
2. The cement shall be brought at site in bulk supply of approximately 20 tonne3s or as decided by the Engineer-in-Charge.
3. The cement godown of the capacity to store a minimum of 800 bags of cement or as decided by Engineer-in-Charge, shall be constructed by the contractor at site of work for which no extra payment shall be made. Double lock provisions shall be made to the door of the cement godown. The keys of one lock shall remain with the Engineer-in-Charge or his authorised representative and the key of the other lock shall remain with the contractor. The contractor shall be responsible for the watch and ward the safely of the cement godown. The contractor shall facilitate the inspection of the cement godown by the Engineer-in-Charge at any time.
4. The contractor shall supply free of charge the cement required for testing. The cost of the tests shall be borne by the contractor.
5. The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in Clause 6 of the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in Clause 6 of the contract and shall be governed by condition laid therein.
6. Cement brought to site and cement remaining unused after completion of work shall not be removed from site without permission of the Engineer-in-Charge.

ADDITIONAL CONDITIONS

1. The structural and architectural drawings, shall at all times be properly correlated before executing any work. However, in case of any discrepancy in the item given in the schedule of quantities appended with the tender and drawings relating to the relevant item the former shall prevail unless and otherwise given in writing by the Engineer.
2. No payment shall be made to the contractor for any damage caused by rain, snowfall, floods or any other natural cause whatsoever during the execution of work. The damage to work will be made good by the contractor at his own cost and no claim on this account shall be entertained.
3. All materials used shall be as per specifications and ISI marked wherever applicable. ISI marking referred relate to latest BIS code as published by Bureau of Indian Standards upto 30 days before the date opening the tender.
4. The contractor shall give a performance test of the entire installation(s) as per standard specifications and/or as directed by the Engineer and will also submit. Test Certificates as are required by Municipal/ Electrical Authority or any other authority. Nothing extra shall be payable for the same other than the fees paid to such authorities which shall be reimbursed on production of receipts.

INDENTURE FOR SECURED ADVANCE

This indenture made the _____ day of 2018_____ between_____ (hereinafter called the contractor which expression shall where the context so admits or implies be deemed to include his heirs, executors, administrators and permitted assignees) of the one part and Council of Scientific & Industrial Research, New Delhi, a Society registered under the Societies Registration Act 1860 (hereinafter called Employer which expression shall include its successors and assignees and authorised officers of the Society) if the other part.

WHEREAS by an agreement dated _____(hereinafter called the said agreement) the contractor has agreed AND WHEREAS the contractor has applied to the Employer that he may be allowed advances on the security of material absolutely belonging to him and brought by him to the site of the works the subject of the said agreement for use in the construction of such of the works as he has undertaken to execute at rates fixed for the finished work (inclusive of the cost of material and labour and other charges) AND WHEREAS the Employer has agreed to advance to the contractor the sum of Rs. _____(Rupees _____) on security of materials the quantities and other particulars of which are detailed in accounts of secured advances attached to the running account Bill for the said works signed by the contractor on _____and the Employer has reserved to himself the option of making any further advance or advances on the security of other materials brought by the contractor to the site of the said works. Now THIS INDENTURE WITNESSETH that in pursuance of the said agreement and in consideration of the sum of Rs. _____on or before the execution of these presented paid to the contractor by the Employer (the receipt whereof the contractor do hereby acknowledge) and of such further advances (if any) as may be made to him as aforesaid the contractor do hereby covenant and agree with the Employer and declare as follows:

1. That the said of Rs. _____ advanced by the Employer to the contractor as aforesaid and all or any further sum or sums advanced as aforesaid shall be employed by the contractor in Or towards expediting the execution of the said works and for no other purpose whatsoever.
2. That the materials detailed in the said account of secured advance which have been offered to and accepted by the Employer as security are absolutely the contractor's own property and free from encumbrances of any kind and the contractor will not make any application for or receive a further advance on the security of materials which are not absolutely his own property and free from encum branches of any kind and the contractor indemnifies the Employer against all claims to any materials in respect of which an advances has been made to him as aforesaid.

3. That the materials detailed in the said account of secured advances and all other materials on the security of which any further advance or advances may hereafter be made as aforesaid (herein after called the said materials) shall be used by the contractor solely in the execution of the said works in accordance with the directions of the Engineer and in the terms of the said agreement.
4. That the contractor shall make at his own cost all necessary and adequate arrangements for the proper watch, safe custody and protections against all risks of the said materials and that until used in construction as aforesaid the said materials shall remain at the site of the said works in the contractor's custody and on his own responsibility and shall at all times be open to inspection by the Employer or any officer authorised by him in the event of the said materials or any part thereof being stolen, destroyed or damaged or becoming deteriorated in a greater degree than is due to reasonable use and wear thereof the contractor will forthwith replace the same with other materials of like quality or repair and make good the same as required by the Engineer.
5. That the said materials shall not on any account be removed from the site of the said works except with the written permission of the Employer or any officer authorised by him on that behalf.
6. That the advances shall be repayable in full when or before the contractor receives payments from the Employer of the price payable to him for the said works under the terms and provisions of the said agreement. However if any intermediate payments are made to the contractor on account of work done then on the occasion of each such payment the Employer will be at liberty to make a recovery from the contractor's bill for such payment by deducting there from the value of the said materials then actually used in the construction and in respect of which recovery has not been made previously the value for this purpose being determined in respect of each description of materials at the rates at which the amounts of the advances made under these presents were calculated.
7. That if the contractor shall at any time make any default in the performance or observance in any respect of any of the terms of provisions of the said agreement or of these presents the total amount of the advance of the advance or advances that may still be owing to the Employer shall immediately on the happening of such default be repayable by the contractor to the Employer together with interest there on at twelve per cent per annum from the date or respective dates of such advance or advances to the date of repayment and with all costs charges, damages and expenses incurred by the Employer in or for the recovery thereof or the enforcement of this security or otherwise by reason of the default of the contractor and the contractor hereby covenants and agrees with the Employer to repay and pay the same respectively to him accordingly.
8. That the contractor hereby charges all the said materials with the repayment to the Employer of the said sum of Rs. _____ and any further sum or sums advanced as aforesaid and all costs charges, damages and expenses payable under these presents PROVIDED ALWAYS and it is hereby agreed and declared that notwithstanding anything in the said agreement and without prejudice to the powers contained therein if and whenever the covenant for payment and repayment herein before contained shall become enforceable and the money owing shall not be paid in accordance therewith the Employer may at any time thereafter adopt all or any of the following courses as he may deem best.

- (a) Seize and utilize the said materials or any part thereof in the completion of the said works on behalf of the contractor in accordance with the provisions in that behalf contained the said agreement debiting the contractor with the actual cost of effecting such completion and amount due in respect of advances under these presents and crediting the contractor with the value of work done as if he had carried it out in accordance with the said agreement and at the rates thereby provided. If the balance is against the contractor he is to pay same to the Employer on demand.
 - (b) Removed and sell by public auction the seized materials or any part thereof and out of the money arising from the sale retain all the sums aforesaid repayable payable to the Employer under these presents and pay over the surplus (if any) to the contractor.
 - (c) Deduct all or any part of the moneys owing out of the security deposit or any sum due to the contractor under the said agreement.
9. That except in the event of such default on the part of the contractor as aforesaid interest on the said advance shall not be payable. In witness where of the said _____ and _____ by the order the under the direction of the Employer have here into set their respective hands the day and year first above written.

Signed sealed and delivered

By the said contractor _____
 In the presence of _____

Signature _____

Name: _____

Address: _____

Signed by _____

By the order and direction of the Employer _____
 In the presence of _____

Signature: _____

Name: _____

Address: _____

PERFORMANCE GUARANTEE

To

Council of Scientific & Industrial Research

1. In consideration of Council of Scientific & Industrial Research (hereinafter) called "The Council" having awarded to M/s _____ a company registered under the Companies Act 1956 (hereinafter) called the contractor, a contract for (hereinafter) called the said contract under the terms and conditions of an Agreement date _____ made between the Council and the Contractor hereinafter called the said agreement and Council agreed to accept a Deed of Guarantee as herein provided for Rs. _____ (Rupees only) from a Scheduled Bank towards due performance of the contract by the Contractor as per the terms and conditions of the contract on the condition that the Bank on demand from the Council and without demur pay to the Council the aforesaid amount.
2. We _____ Bank Ltd. (hereinafter) referred to as bank do hereby undertake to pay to Council and amount not exceeding Rs. _____ against any loss or damage caused to or suffered or would be caused to or suffered by the Council by reasons of any breach or breaches of any of the terms of conditions of the said agreement by the said contractor.
3. We _____ Bank Ltd. Do hereby undertake to pay the amount due and payable under this Guarantee without any demur, merely on a demand from the Council by stating the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Council for reasons of any breach by the said contractor(s) of any of the terms & conditions contained in the said Agreement or by reason of the Contractor(s) failure to Perform the said agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____
4. This guarantee shall come into force immediately and continue in force and remain valid till six months after the completion of all works under the said contract which according to the terms of the said contract, should be six months from the probable date of completion viz, the _____ day of _____ if, however, the period of the completion of the works under the said contract is for any reason extended and upon such extension if the Contractor falls, before the terms of this guarantee expire, to furnish a fresh or renewed guarantee for the extended period, the Bank shall pay to Council and said sum of Rs. _____ or such lesser sum as Council may demand.
5. This guarantee shall not be affected by any change in the constitution of the Bank or of the Contractor.
6. Notwithstanding anything here in before contained, the liability of the Bank under this guarantee is restricted to Rs. _____ (Rupees _____ only) and the guarantee shall remain in force till _____ day of _____ 20 _____ unless claim or demand under this guarantee is presented to the Bank within six months from the date all the rights of Council under this guarantee shall be forfeited and the Bank shall be released and discharged from all obligations hereunder.

CONTRANTOR'S SITE SUPERINTENDENCE

Staff to be employed by contractor on works. The contractor shall employ the following technical staff during execution of work

- (a) For building and road works
 - (i) One Graduate Engineer, when the tendered cost of work exceeds Rs. 10 lakhs
 - (ii) One qualified Diploma holder (overseer) with experience not less than 3 years when the tendered cost of work exceeds Rs. 5 lakhs but is less than Rs.10 lakhs
 - (iii) One qualified Diploma holder when the tendered cost of work is Rs.2 lakhs but less than Rs.5 lakhs
- (b) For sanitary and water supply works one qualified diploma holder with experience of not less than one year should be in sanitary and water supply works when the tendered cost of work is more than Rs.50,000.
- (c) For electrical works
 - (i) One qualified Graduate Engineer possessing Degree in Electrical Engineering from recognised university with an experience of not less than 3 years or a diploma holder in Electrical Engineering with an experience of not less than 7 years when the tendered cost of the work is not less than Rs.1.5 lakhs. One Graduate Electrical Engineer with two years experience or a Diploma holder in Electrical Engineering with experience of not less than 3 years when the tendered cost of the work is more than Rs.75.000 but less than Rs.1.5 lakhs.
 - (ii) One Diploma holder in Electrical Engineering with experience of not less than 3 years when tendered cost or work is more than Rs.37.000 but less than Rs.75.000.00
 - (iii) One licensed Supervisor with experience of not less than 3 years when the tendered cost of the work is more than Rs.7,500 and less than Rs.37,000
- (d) In case the contractor fails to employ the technical staff as above said, he shall be liable to pay reasonable amount not exceeding the amount shown below for each month of default. These recoveries are subject to modifications from time to time by CSIR based on CPWD.

| | |
|--|------------|
| In case when a graduate Engineer is to be employed | Rs.3,000/- |
| In case when a qualified Diploma holder is required to be employed | Rs.1,500/- |
| In case when technical supervisor is required to be employed | Rs.750/- |

**Central Scientific Instruments Organisation
(Civil Engineering Section)**

No. CSIO/1380/18-19/ESD

NIT No. 02/ 2018-19/ESD/CSIO/Chd.

Subject: Maintenance of Office area in CSIO, Chandigarh.(2018-19)

Important Note:

- 1) The contractor has to deploy a fulltime qualified supervisor throughout the time period of work for management of maintenance work in Office Area. The supervisor will be responsible for execution of work through job cards/ will take instruction of site engineer and will maintain the record of the complete and incomplete job cards.
- 2) The contractor will take up all job cards and ensure completion of all job cards given to him on day to day basis. Under no circumstance it will be kept pending.
- 3) Only skilled manpower is to be deputed at site for Masonry, Carpentry, welding, aluminum, glazing, and painting etc with required tools and material to ensure the completion of work in all circumstances.
- 4) Compliance of all labour related provisions /acts/rules for the labour engaged at work will be done by the contractor.
- 5) Paint stains from floors, doors, windows etc. to be cleaned after painting work. The contractor has to clear all malba debris from site on day to day basis.
- 6) The rate includes all required scaffolding and nothing extra shall be paid on account of scaffolding.
- 7) The items are to be carried out in small quantities as and when required within 24 hours of even giving mobile message. The Contractor is required to give at least two local mobile numbers and one land line number for contact so that message for repair work is conveyed. In some cases work will be completed at short notice
- 8) Measurement of completed work to be submitted by the contractor fortnightly to the engineer in-charge
- 9) Above items include shifting of dismantled material from site to store and Shifting of raw material and fabricated items from CSIO store or workshop as the case may be to site of work and nothing extra on this account will be paid.

| SCHEDULE OF WORK | | | | | |
|-------------------------|---|-------------|------------|-------------|---------------|
| Sr. No. | Description of Items | Unit | Qty | Rate | Amount |
| 1. | Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including Refilling the same or getting out the excavated soil and disposal of surplus excavated soil as directed, within CSIO. All kinds of soil. | cum | 10 | | |

Total C/o.....

Signature of Contractor.....

Subject: Maintenance of Office area in CSIO, Chandigarh.(2018-19)

| SCHEDULE OF WORK | | | | | |
|------------------|---|------|-----|------|--------|
| Sr. No. | Description of Items | Unit | Qty | Rate | Amount |
| 2. | Supplying and filling in plinth with Jamuna sand under floors including, watering, ramming consolidating and dressing complete. | cum | 5 | | |
| 3. | Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead within CSIO and lift upto 1.5 m. All kinds of soil. | sqm | 500 | | |
| 4. | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size). | cum | 5 | | |
| 5. | Reinforced cement concrete work in beams, columns, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level excluding the cost of centering, shuttering, finishing and enforcement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size). | cum | 1 | | |

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Subject: Maintenance of Office area in CSIO, Chandigarh.(2018-19)

| SCHEDULE OF WORK | | | | | |
|------------------|--|------|-----|------|--------|
| Sr. No. | Description of Items | Unit | Qty | Rate | Amount |
| 6. | Centering and shuttering including strutting, propping etc. and removal of form for : Shelves (Cast in situ). | sqm | 20 | | |
| 7. | Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.TMT bars . | kg | 50 | | |
| 8. | Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand). | cum | 2 | | |
| 9. | Brick work with F.P.S. bricks of class designation 75 in superstructure : Cement mortar 1:6 (1 cement : 6 coarse sand). | cum | 2 | | |
| 10. | Half brick masonry with F.P.S. brick of class designation 75 in foundations and plinth/ superstructure in. Cement mortar 1:4 (1 cement : 4 coarse sand). | sqm | 20 | | |
| 11. | Rubing and polishing of marble/ granite/ kota stone flooring complete to mirror finished as per direction of Engineer in charge. | sqm | 100 | | |

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| SCHEDULE OF WORK | | | | | |
|-------------------------|---|-------------|------------|-------------|---------------|
| Sr. No. | Description of Items | Unit | Qty | Rate | Amount |
| 12. | Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws. | sqm | 5 | | |
| 13. | Providing and fixing 2nd class teak wood plain lining tongued and grooved, including wooden plugs complete with necessary screws and priming coat on unexposed surface - 12mm th | sqm | 15 | | |
| 14 | Providing and fixing IS : 3564 marked Aluminium die cast body tubular type universal hydraulic door closer with necessary accessories and screws etc. complete. | each | 50 | | |
| 15 | Providing and fixing bright finished brass hasp and staple (safety type) with necessary screws etc. complete : 150 mm | each | 30 | | |
| 16 | Locks with six levers of approved quality including necessary screws etc. complete. Size 50 mm | each | 60 | | |
| 17 | Providing and fixing chromium plated brass 50 mm cupboard or wardrobe knobs with nuts complete. | each | 20 | | |

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| SCHEDULE OF WORK | | | | | |
|------------------|--|------|-----|------|--------|
| Sr. No. | Description of Items | Unit | Qty | Rate | Amount |
| 18 | Providing and fixing aluminium/ powder coated 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 screws etc. complete : 300x16 mm. | each | 20 | | |
| 19 | Providing and fixing aluminium / powder coated 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 shade with necessary screws etc. complete : 200x10 mm. | each | 30 | | |
| 20 | Providing and fixing anodised aluminium/ powder coated aluminium 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. double rubber stopper . | each | 30 | | |
| 21. | Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, grills, railings, brackets, gates and similar works. | Kg | 100 | | |

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|------------------|--|------|-----|------|--------|
| Sr. No. | Description of Items | Unit | Qty | Rate | Amount |
| 22. | 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, shades, size, digital and highlighter 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 | 20 | | |
| 23 | Providing and laying Ceramic glazed floor tiles 300x300 mm (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 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand) including pointing the joints with white cement and matching pigment etc., complete. | sqm | 10 | | |
| 24 | Providing and laying polished vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 60x60 cm. | sqm | 10 | | |

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|------------------|--|-------|------|------|--------|
| Sr. No. | Description of Items | Unit | Qty | Rate | Amount |
| 25 | Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10mm and down gauge) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :In 75x75mm deep chase. | metre | 100 | | |
| 26. | 12 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand). | sqm | 100 | | |
| 27 | 15 mm cement plaster on rough side of single or half brick wall of mix : 1:6 (1 cement: 6 coarse sand). | sqm | 100 | | |
| 28 | 20 mm cement plaster 1:2 (1 cement: 2 stone dust)with epoxy coating. | sqm | 50 | | |
| 29 | Providing and applying white cement based putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete. | sqm | 1000 | | |
| 30 | Colour washing with lime to give an even shade on old work as directed by Engineer in charge. | sqm | 3000 | | |
| 31 | Applying one coat of cement primer of approved brand and manufacture on wall surface : Cement primer. | sqm | 5000 | | |

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| SCHEDULE OF WORK | | | | | |
|-------------------------|--|-------------|------------|-------------|---------------|
| Sr. No. | Description of Items | Unit | Qty | Rate | Amount |
| 32 | Painting with synthetic enamel paint or Deco paint wherever required of approved brand and manufacture of required colour to give an even shade: Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture. | sqm | 600 | | |
| 33 | French spirit Polishing two or more coats on new works including a coat of wood filler. | sqm | 200 | | |
| 34 | Repairs to plaster of thickness 12mm to 20mm 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 CSIO : With cement mortar 1:4 (1 cement : 4 fine sand) | sqm | 100 | | |
| 35 | Renewing glass panes and refixing existing wooden fillets/ glass putty: Float glass panes of thickness 4 mm. | sqm | 50 | | |
| 36 | Renewal of old putty of glass panes after refixing of glass with silicon based adhesive (length). | metre | 500 | | |
| 37 | Raking out joints in lime or cement mortar and preparing the surface for re-pointing or replastering including disposal of rubbish to the dumping ground within CSIO lead. | sqm | 150 | | |

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|------------------|---|------|--------|------|--------|
| Sr. No. | Description of Items | Unit | Qty | Rate | Amount |
| 38 | Flush pointing with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement for flat tile bricks on top of mud phaska : With F.P.S. brick tiles. | sqm | 150 | | |
| 39 | Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade: One or more coats on old work. | sqm | 278.28 | | |
| 40 | Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete. | sqm | 3500 | | |
| 41 | Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : Old work (one or more coats). | sqm | 8500 | | |
| 42 | 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 | 5000 | | |
| 43 | Finishing walls with textured exterior paint / smooth exterior paint as the case may be, of required shade Old work (One or more coats) applied @ 1.82 ltr/10 sqm. | sqm | 1000 | | |

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| SCHEDULE OF WORK | | | | | |
|------------------|---|------|--------|------|--------|
| Sr. No. | Description of Items | Unit | Qty | Rate | Amount |
| 44 | Cleaning of terrace/loft water storage tank (inside surface area) at all heights with coconut brushes, duster etc., removal of silt, rubbish from the tank and cleaning the tank with fresh water disinfecting with bleaching powder @ 0.5gm per litre capacity of tank, including marking the date of cleaning on the side of tank body with the help of stencil and paint and disposing of malba, all complete as per direction of Engineer-in-Charge. (The old date already written on tank should be removed with paint remover or black paint and if date is not written with the stencil or old date is not removed deduction will be made @ Rs. 0.10 per litre if during cleaning any GI fittings or ball cock is damaged that is to be repaired by contractor at his own cost and nothing extra will be paid on this account) | Ltr | 100000 | | |
| 45 | Cleaning and desilting of gully trap chamber, Man hole , road gulley etc including removal of rubbish mixed with earth etc. and disposal of same, all as per the direction of Engineer-in-charge. | each | 50 | | |
| 46 | Cleaning of chocked sewer line by diesel running vehicle mounting hydraulic operated high pressure suction cum jetting sewer cleaning machine fitted with pump having 4000 litres suction capacity and 6000 litres water jetting tank capacity including skilled operator, supervising engineer etc. for cleaning and partial desilting of manholes and dechocking of sewer lines. Dechocking and flushing of sewer line from one manhole to another by high pressure jetting system of 2200 PSI for sewer line from 150mm dia upto 300mm dia for all depth. | mtr | 200 | | |

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|------------------|--|------|------|------|--------|
| Sr. No. | Description of Items | Unit | Qty | Rate | Amount |
| 47 | Cleaning of underground sump, Over Head R.C.C. Tank (independent staging) including disposal of slit and rubbish, all as per direction of Engineer-in-Charge. The cleaning shall consist following operations:- (i) Tank shall be emptied of water by pumping & bottom shall be cleaned of slit and other deposits. (ii) Entire surface area of the sump shall then scrubbed thoroughly with wire brush etc. and pressure washed with water. (iii) Chlorination of RCC internal surface by liquid chlorine. (iv) The treated surface shall be dried using air jetting and all loose particles shall be removal from the surface. (v) Finally the surface shall be treated with ultraviolet radiation etc. as per direction of Engineer-in-Charge. | Sqm | 1000 | | |
| 48 | Demolishing cement concrete manually/RCC by mechanical means including disposal of material within CSIO lead as per direction of Engineer - in - charge. 1:3:6 or richer mix. | cum | 5 | | |
| 49 | Demolishing cement concrete manually/ by mechanical means including disposal of material within CSIO lead as per direction of Engineer - in - charge. 1:4:8 or leaner mix. | cum | 5 | | |
| 50 | Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within CSIO lead as per direction of Engineer-in-charge. In cement mortar. | cum | 5 | | |

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|------------------|---|------|-----|------|--------|
| Sr. No. | Description of Items | Unit | Qty | Rate | Amount |
| 51 | Dismantling of aluminium partition, shutters, false ceiling , PVC flooring, old plaster etc. | sqm | 100 | | |
| 52 | Removing Malba/earth by mechanical means including loading, unloading leveling etc. beyond CSIO campus. | cum | 115 | | |
| 53 | Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size) in pavements, laid to required slope and camber in panels as required including consolidation finishing and tamping complete. | cum | 5 | | |
| 54 | Painting kerb and channel stones with adequate nos of coats to give uniform finish with road marking paint of superior make and colour as approved by the Engineer-in-charge, i/c cleaning the surface of all dirt, scales, oil, grease and other foreign material etc. and lining out complete. New work (Two or more coats). | sqm | 500 | | |
| 55 | Providing and applying 2.5 mm thick road marking strips (retro reflective) of specified shade/ colour using hot thermoplastic material by fully/ semi automatic thermoplastic paint applicator machine fitted with profile shoe, glass beads dispenser, propane tank heater and profile shoe heater, driven by experienced operator on road surface including cost of material, labour, T&P, cleaning the road surface of all dirt, seals, oil, grease and foreign material etc. complete as per direction of Engineer-in-charge and accordance with applicable specifications. | sqm | 150 | | |

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| SCHEDULE OF WORK | | | | | |
|------------------|---|------|-----|------|--------|
| Sr. No. | Description of Items | Unit | Qty | Rate | Amount |
| 56 | Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction and 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 coarse sand etc. all complete as per the direction of Engineer-in-charge. | sqm | 100 | | |
| 57 | Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge. | sqm | 150 | | |
| 58 | Laying old cement concrete interlocking paver blocks of any design/ shape laid in required line, level, curvature, colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineering- charge. (Old CC paver blocks shall be supplied by the department free of cost). | sqm | 150 | | |
| 59 | Providing and fixing white vitreous china water closet squatting pan (Indian type)Orissa pattern W.C. pan of size 580x440 mm. | each | 5 | | |

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| SCHEDULE OF WORK | | | | | |
|------------------|--|-------|-----|------|--------|
| Sr. No. | Description of Items | Unit | Qty | Rate | Amount |
| 60 | Providing and fixing white vitreous china pedestal type (European type/ wash down type) water closet pan. | each | 5 | | |
| 61 | 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. 10 litre capacity – White. | each | 5 | | |
| 62 | Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing : Any shape 450x350 mm . - Atul, Saint gobain. | each | 20 | | |
| 63 | Cutting holes up to 30x30 cm in walls including making good the same: With F.P.S. bricks | each | 20 | | |
| 64 | Cutting holes up to 15x15cm in R.C.C. floors and roofs for passing each 82.25 drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including finishing complete so as to make it leak proof. | each | 20 | | |
| 65 | Making chases up to 7.5x7.5 cm in walls including making good and finishing with matching surface after housing G.I. pipe etc. | metre | 20 | | |

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| SCHEDULE OF WORK | | | | | |
|------------------|---|------|-----|------|--------|
| Sr. No. | Description of Items | Unit | Qty | Rate | Amount |
| 66 | Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, 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 angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and paneling to be paid for separately) : For fixed portion Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15). | kg | 50 | | |

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| SCHEDULE OF WORK | | | | | |
|------------------|--|------|-----|------|--------|
| Sr. No. | Description of Items | Unit | Qty | Rate | Amount |
| 67 | Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, 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 angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and paneling to be paid for separately) : For fixed portion . Powder coated aluminium (minimum thickness of powder coating 50 micron). | kg | 50 | | |

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| SCHEDULE OF WORK | | | | | |
|------------------|--|------|-----|------|--------|
| Sr. No. | Description of Items | Unit | Qty | Rate | Amount |
| 68 | Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, 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 angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and paneling to be paid for separately) For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket required (Fittings shall be paid for separately). Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15). | kg | 50 | | |

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| SCHEDULE OF WORK | | | | | |
|------------------|---|------|-----|------|--------|
| Sr. No. | Description of Items | Unit | Qty | Rate | Amount |
| 69 | Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, 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 angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and paneling to be paid for separately) : For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket required (Fittings shall be paid for separately). Powder coated aluminium (minimum thickness of powder coating 50 micron). | kg | 50 | | |

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|------------------|--|------|-----|------|--------|
| Sr. No. | Description of Items | Unit | Qty | Rate | Amount |
| 70 | Providing and fixing 12mm thick pre-laminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge. Pre-laminated particle board with decorative lamination on both sides. | sqm | 50 | | |
| 71 | Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 5.5 mm thickness. | sqm | 25 | | |
| 72 | 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 pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge. With stainless steel cover plate. | each | 2 | | |
| 73 | Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete. | each | 40 | | |

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|------------------|---|---------------------------|-----|------|--------|
| Sr. No. | Description of Items | Unit | Qty | Rate | Amount |
| 74 | Providing fixing aluminium/ powder coated aluminium double bend handle with SS screws etc. complete as per direction of Engineer-in-charge Anodized (AC 15) aluminium. | each | 20 | | |
| 75 | P/F vertical blinds of vista or equalent complete with fittings and fixing in position all complere as directed by Engineer in charge. | sqm | 10 | | |
| 76 | P/F of sun control film reflective type of M/s Garware Polyster Ltd. Or equilent on glasses of window of rooms all complete as directed by Engineer in charge. | sqm | 15 | | |
| 77 | P/F of anodized aluminium work for opnable and fixed portion(only old aluminium will be given free of cost by CSIO) as directed by Engineer in charge. | Sqm | 80 | | |
| 78 | Providing and fixing 15mm dia jet for EWC of Bathcare. as directed by Engineer in charge. | each | 5 | | |
| 79 | Carrying out petty jobs of carpentary including of doors, Almira, pelmets, storage spaces etc. complete with necessary tools, drill machine nails, screws ,fevicol etc. at diffrent locations which cannot be measured as directed by engineer in charge. | Per petty job Man Days | 425 | | |

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| SCHEDULE OF WORK | | | | | |
|------------------|--|---------------------------|-----|------|--------|
| Sr. No. | Description of Items | Unit | Qty | Rate | Amount |
| 80 | Carrying out petty jobs of massonary work including of all types of repairs with coc. And mortar etc. complete with necessary tools, cement, sand, aggregate etc. at different locations which cannot be measured as directed by engineer in charge. | Per petty job Man Days | 120 | | |
| 81 | Carrying out petty jobs of glazing works with all necessary tools, glass, ladders, putty, beading etc. for petty works at different locations which cannot be measured as directed by engineer in charge. | Per petty job Man Days | 10 | | |
| 82 | Carrying out petty jobs of Painting works including of lettering, OBD, Sy. Enamel paint etc. with all necessary tools, brushes, safty belts, putty, ladder etc. for petty work sat different locations which cannot be measured as directed by engineer in charge. which otherwise cannot be measured. | Per petty job Man Days | 40 | | |
| 83 | Carrying out petty jobs of welding works with necessary tools, welding set & rods etc. for petty works at different locations which cannot be measured as directed by engineer in charge. which otherwise cannot be measured. | Per petty job Man Days | 30 | | |
| 84 | Carrying out petty jobs of Drainage work with all necessary tools, rodding set, safty shoes, masks etc. for petty works at diffrent locations which cannot be measured as directed by engineer in charge. | Per petty job Man Days | 200 | | |

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| SCHEDULE OF WORK | | | | | |
|-------------------------|---|---------------------------|------------|-------------|---------------|
| Sr. No. | Description of Items | Unit | Qty | Rate | Amount |
| 85 | Carrying out petty jobs of misc. petty works with all necessary tools , Rehri, etc. at different locations which cannot be measured as directed by engineer in charge. | Per petty job Man Days | 600 | | |
| 86 | Carrying out petty jobs of Aluminium Fabricator with all necessary tools, rubber beadings, screws, ladders etc. for petty works at different locations which cannot be measured as directed by engineer in charge. | Per petty job Man Days | 50 | | |
| 87 | Carrying out petty jobs of Plumbing works with all necessary tools like pipe wrench, drill machine, safety belts, ladder ,old cycle tubes etc. for petty works at different locations which cannot be measured as directed by engineer in charge. | Per petty job Man Days | 365 | | |
| 88 | Carrying out petty jobs of false ceiling fabricator with all necessary tools, angles, tee, ladders etc. for petty works at different locations which cannot be measured as directed by engineer in charge. | Per petty job Man Days | 15 | | |
| 89 | P/F mineral fibre false ceiling tiles as per the required shape, make and shade complete as directed by Engineer in charge. | sqm | 20 | | |
| 90 | Providing and fixing MS helical door spring (superior quality) complete as per direction of Engineer-in-Charge. | each | 20 | | |

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|------------------|--|------|--------|------|--------|
| Sr. No. | Description of Items | Unit | Qty | Rate | Amount |
| 91 | Providing & fixing Polycarbonate sheet Solar control IR 2mmth (Grade 2UR IR 105 R 175) in approved colour/shade and pattern in roofing/ partitions etc. The polycarbonate sheet should have tensile strength not less than 60N/ sqm ,light transmission should not be less tahn 70 5 and two sides UV protected .The sheet should be fixed with the help of Aluminium section specially designed for carrying the sheet in proper shape and pattern and make it water tight by neoprene gasket alaround i/c all necessary nuts ,bolts and washers etc. all complete as directed by Engineer in charge.(make - Sabic or equalent). | sqm | 10 | | |
| 92 | Expansion joint in floor roof etc. formed with V strips made of 22.5 cm wide strips of 24 gauge aluminium sheets with anchor arm projecting on each side (and end turned) embedded in adjacent cement concrete, including shaping and finishing the edges on either side of the joint (including the cost of bituminous filler if any) complete as per direction of Engineer-in-Charge. | mtr | 5 | | |
| 93 | Providing and Fixing in position signage & logo with 2 inch acrylic sheet over base of ACP Sheet up to any height complete with scaffolding and safty equipments to be used complete as directed by Engineer in charge. | sqm | 2.8594 | | |

Total C/o.....

Signature of Contractor.....

Subject: Maintenance of Office area in CSIO, Chandigarh.(2018-19)

| SCHEDULE OF WORK | | | | | |
|------------------|---|----------|-----|------|--------|
| Sr. No. | Description of Items | Unit | Qty | Rate | Amount |
| 94 | Making plan/ drawings of new or existing buildings from a reputed architect. | sqm | 100 | | |
| 95 | Arrangement of JCB machines for various emergent works of removal of grass, bushes, leveling, excavation and filling etc. complete as directed by Engineer in charge. | Per hour | 20 | | |

Total Rs.....

Total in words (Rupees.....)

Address of the contractor

Phone No.

Bank's Name & Address

IFSC code of Bank

Account No.

PAN No.

Signature of Contractor.....