



# सीएसआईआर-केन्द्रीय इलेक्ट्रॉनिकी अभियांत्रिकी अनुसंधान संस्थान

CSIR-CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE

(विज्ञान तथा प्रौद्योगिकी मंत्रालय / MINISTRY OF SCIENCE & TECHNOLOGY, भारत सरकार/ GOVT. OF INDIA )

पिलानी, राजस्थान (भारत)/Pilani, Rajasthan - 333031 (INDIA)



**Name of Work:-** “SITC of VRV/VRF type air conditioners for Central workshop, Gyrotron lab, Old administrative block at CSIR-CEERI, Pilani (Rajasthan)”.

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## Notice Inviting e-Tender

1. Online e-tenders are hereby invited through e-tendering portal <https://etenders.gov.in/e procure/app> for the work of “**SITC of VRV/VRF type air conditioners for Central work shop, Gyrotron lab, Old administrative block at CSIR-CEERI, Pilani (Rajasthan)**” from contractors having Worked with CPWD, Railways, MES, State PWD's, Semi government organizations and / or from those who have successfully carried out similar works(Heating, Ventilation and Air Conditioning / Evaporative Type Air Cooling System) for CSIR or its laboratories, govt. or semi government organizations. The tenderers should have successfully completed at least three similar works amounting to **17.04 Lakh** (Including all taxes) or at least two similar works amounting to **25.57 Lakh** (Including all taxes) or at least one similar works amounting to **34.09 Lakh** (Including all taxes) or above in single contract of the estimated cost of work during the last seven years, ending on the last day on the month previous to the one in which tender is being invited. The contractors may apply with proof of fulfilling the above conditions along with copies of GST registration, PAN Card, satisfactory work completion Certificates etc.
2. The Estimated cost of work is **Rs. 42,62,000/- (Rs. Forty two lakh sixty two thousand only)** based on prevailing market rates. (Including all taxes)
3. Duration of contract for carrying out of the work will be **90 days** from the date of commencement which shall be reckoned from the **15<sup>th</sup> day of issue of Acceptance letter.**
4. The tender shall be submitted through online at CPPP website: <https://etenders.gov.in/e procure/app> by the tenderer, as per date given in Critical Date Sheet below:

### Critical Date Sheet:

S. No.	Schedule of activities	Date and time
1	Publish Date on CPP Portal	20.09.2022 From 09:00AM
2	Tender document downloaded start date	20.09.2022 From 11:00AM
3	Tender submission start date	20.09.2022 From 11.00AM
4	Tender document downloaded End date	26.09.2022 Up to 03:00 PM
5	Tender submission End date	26.09.2022 Up to 03:00 PM
6	Technical bid opening date (Cover-I)	28.09.2022 Up to 03:00 PM
7	Financial bid opening date (Cover-II)	To be Intimated later on.

5. Scanned copy of tender fee (non-refundable) of Rs. 500/- (Rupees Five hundred only) deposited through Demand Draft/Banker's Cheque **in favour of Director, CSIR-CEERI, Pilani(Raj.)**
6. Earnest Money Deposit amounting to **Rs. 85,240/-(Rupees Eighty five thousand two hundred forty only)** in shape of Demand Draft/Banker's Cheque in favour of Director, CSIR-CEERI, Pilani(Raj.) and the scanned copy may be uploaded in Cover-I of the tender and hard copy may be submitted in EME Section, CSIR-CEERI, Pilani up to 28.09.2022 at 11:00 Hrs. Tender received without Earnest money and tender fee will not be considered.

7. The tenderer is to indicate the name & telephone numbers of issuing agency of the completion certificates to enable the verification of the original documents, if necessary. It may be noted that even after opening of bid, the credential submitted found to be false/forged the offer submitted shall be rejected out rightly. No further clarification will be sought from the tenderers.
8. The employer does not bind himself to accept the lowest or any tender and reserves to himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rates quoted by him.
9. No tenderer shall be permitted to tender for works in the concerned unit of C.S.I.R. in which a relative is posted in the grade between Controller of Administration and Junior Engineer, (both inclusive). He shall also intimate the name 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, and only if, (a) they are members of a Hindu undivided family or (b) they are husband and wife or (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 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.

10. Tenders submitted shall remain valid for a period of 90 days from the bid submission end date for the purpose of acceptance and award of work. Validity of the tender beyond 90 days from the bid submission end date shall be extended by mutual consent.
11. In e-tendering, tenderer can quote the rates in figure only. The rates in words, amount of each item and total is generated automatically. Therefore, the rate quoted by the tenderer in figure is to be taken as correct.
12. The tenderer should carefully see the contract drawings (as applicable) as no claim whatsoever will be entertained for any alleged ignorance thereof.
13. Before tendering, the tenderer shall inspect the site to fully acquaint himself about the conditions implants etc., conditions affecting accommodations and movement of labour etc. required for the satisfactory execution of contract. No claim whatsoever on such accounts shall be entertained by the employer under any circumstances.
14. If any tenderer withdraws his tender within the validity period or makes any modification in terms and conditions of the tender, before the award of work, which are not acceptable to CSIR-CEERI then CSIR-CEERI shall, without prejudice to any other right or remedy, shall be at the liberty to forfeit 50 % (fifty percent) of the Earnest Money deposit absolutely. Further, the tenderer shall not be allowed to participate in the re-tendering process for this work.
15. 100% Earnest Money will be forfeited if the contractor fails to commence the work within the stipulated period after the Award of the work.
16. Except writing rates in figure only, the tenderer should not write any conditions or make any changes, additions, alterations and modifications.
17. Some of the major provisions of General Conditions of Contract are given below. Interpretations however, shall be as given in the General Conditions of Contract.

(a) **Defect Liability Period:** 01 year but after one year, warranty on compressor as per OEM norms.

(b).**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 sum already deposited as performance security (5%) to 10 % of the tendered value of the work. In addition, the contractor shall be required to deposit an amount equal to 5 % of the contract value as performance security within the period prescribed in the letter of award issued to him.

(c).**COMPENSATION:** Contractor shall pay as compensation an amount equal to one percent (1%) or such smaller amount as the Employer (whose decision in writing shall be final) may decide on the cost of the whole work as shown In the agreement, for every week that the work remains un-commenced or unfinished or due quantity of work remains incomplete after the scheduled dates. Compensation to be paid shall not exceed ten percent (10%) of the contract amount of the work as shown in the agreement.

18. For any queries relating to the Tender Document and the terms and conditions content therein should be addressed to Head, EME, CSIR-CEERI, Pilani(Rajasthan)-333031.

19. Clause No.28 of conditions of contract i.e. **“Escalation”**will not be applicable in this work.

20. The labours / Engineer deployed by the contractor at site will be paid by the contractor on the basis of minimum wages as notified by Chief Labour Commissioner (C), New delhi from time to time.

21. All tenderers should submit the proof of their Goods and Services Tax registration. Deduction of GST will be made from their running and final bill as per standard norms of the Government, if required. Contractors are requested to refer clause no.5 of General conditions of contract for quoting rates of tender items. The contractor shall quote their rates Inclusive all taxes including GST and Labour Cess etc.

22. Opening of Technical Bid (Cover: I)

(a). The Technical bid(Cover-I) will be opened by Tender Opening Committee (TOC) on **28.09.2022 at 03:00 PM**, in the office of EME Section, CSIR-CEERI, Pilani, in the presence of such intending tenderers or their authorized representatives who may wish to be present at that time. No claim or any grievances will be entertained what-so-ever by the Tender Opening Committee in this regard.

(b).The TOC, after evaluation of documents contained in Cover: I i.e. Technical Bid, will decide the eligible tenders, as per the criteria laid down in the NIT.

(c). The TOC will then open the Financial Bids of only eligible tenderers.

23. Opening of Financial Bid (Cover: II): The Cover -II of Eligible Tenderers shall be opened serially. The total amount quoted by the tenderers shall then be read out by the TOC for information of those present / participated.

24. Tender Liable for Rejection:

Tender is liable for outright rejection if on opening it is found that —

(a) The Tenderer has not strictly followed the procedure laid down for submission of tender.

(b) If the tender is CONDITIONAL.

(c).If the Tenderer has quoted his offer anywhere else other than specified place provided.

(d) The Tenderer has not uploaded the documents or Failed to fill the prescribed format.

(e).Any other ground as decided by the TOC in view of deviation from Tender Document.

25. The instructions for the submission of e-tender are available on the CPPP website i.e. <https://etenders.gov.in/eprocure/app> under the “Instruction for Online Bid Submission”. All the intending tenderers are requested to go through these instructions before entering into the process of e-tendering and advised to visit again CPPP website regularly till closing date of submission of tender for any corrigendum/ addendum/ amendment. Manual tenders shall not be accepted.

26. The tenderer shall submit an **undertaking as per Annexure: I** and **Tender Acceptance Letter as per Annexure: II** on Firm’s letter head. The scanned copy of the Undertaking and Tender Acceptance Letter shall be uploaded in Cover: I and the Original Copy of the undertaking and Tender Acceptance Letter should be submitted before award of work to EME division.

27. List of documents to be scanned and uploaded in Cover: I is as per follows:

Sl. No.	Cover-I
1.	Receipt of deposit of Tender fee
2.	Scanned copy of Demand Draft in favour of Director, CSIR-CEERI, Pilani of Earnest Money Amount
3.	Copies of experience certificates of similar works completed satisfactorily as per NIT
4.	Copy of GST registration number
5.	Copy of PAN Card
6.	Undertaking by Tenderer as per Annexure :I
7.	Tender Acceptance Letter as per Annexure:II

26. List of documents to be scanned and uploaded in Cover: II is as per follows:

Sl. No.	Cover-II
1.	Financial Bid as per the format given in the tender

**No.13- 8 (163) /2022-EME**

**ARTICLE OF AGREEMENT** MADE AT CSIR-CEERI, PILANI THIS DAY OF \_\_\_\_\_ between the Council of Scientific and 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 Authorized Officers of the Society) of the one part and ----- )  
-,trading in the name of -----thereinafter referred to as the Contractor(s) 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 **“SITC of VRV/VRF type air conditioners for Central work shop, Gyrotron lab, Old administrative block at CSIR-CEERI, Pilani (Rajasthan)”** done and caused has drawings, schedule of quantities and specifications describing the work to be performed.

AND whereas the said specifications and the schedule of quantities and other documents have been signed by on behalf of the parties.

NOW IT HEREBY AGREED AND DECLARED BY AND BETWEEN THE PARTIES HERE TO AS FOLLOWS :

1.In considerations of the payments to be made to them as hereinafter provided the 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 the specifications, designs, drawings and instructions in writing, time for carrying out the work as entered for **90 days** will be reckoned from ----- The contract further may be extended for next One year on the basis of satisfactory service provided by the contractor.

Contd.-2

2<sup>nd</sup> page

2. The Employer shall pay to the Contractors such sums as shall become payable hereunder at the time and in the manner specified in the said conditions.

**3. An amount equal to the 5% Of the tendered value of the contract as Performance Security i.e. of Rs. ----- deposited vide FDR No- ----- dated ----. of Bank -----) and Rs----- only as a Earnest Money vide DD No-----, dated. ----- of Bank of India.**

4. This Agreement contains the following documents :

Notice of inviting tender page no.- , Terms & conditions of contract - , schedule of quantities - , letter and publication of Inviting Tender page No.- , letter to contractor for submitting the performance Security amount at page No – , Letter of contractor for depositing the performance Security amount at page No – , letter of award of work page No- .

In witness whereof the parties hereto have set their respective hands the day and year herein above written

Signed by for on behalf of employer \_\_\_\_\_

In presence of

1. \_\_\_\_\_ 2. \_\_\_\_\_

Signed by the said contractor \_\_\_\_\_

In presence of

1. \_\_\_\_\_ 2. \_\_\_\_\_

Countersigned

## GENERAL CONDITIONS OF CONTRACT

### INTERPRETATION

- 1) 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.
- 2) 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:** shall mean all work or works defined in schedule of quantities, specifications and such other work or works as the contractor may be entrusted with for carrying out under this contract.

**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 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 thereon and any other 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 any way.

### 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 EVERYTHING 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 therefor 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 this own cost. If, however, piped water is supplied by the Employer, the contractor shall pay for the water at one per cent 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 un-interrupted 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 the 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 or water obtained from elsewhere.
- (e) Subject to 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.

#### 4. AUTHORITIES, NOTICES & PATENTS

- (a) The contractor shall conform to any regulations 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 the Engineer specifying the variations proposed to be made, the reasons for making it and apply for instructions thereon. 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 statutes. 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 the 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 hereto 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 off 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 on 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 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 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 under-ground 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 materials used in the works. Over this quantity a variation of 5% plus shall be allowed for wastage of materials during execution in case of cables (other than under-ground 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.

#### **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. CONTRACTOR'S ENGINEERS / FOREMAN & 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 the Defects 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 Foreman or any other authorised agent shall be held to be given to the contractor.
- (b) The contractor shall on the request of the Engineer immediately dismiss from the works any person employed thereon 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 alterations/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, or 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 over-heads except in case of departmental materials for which contractor's profit and over-heads 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 contractor's 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.

#### **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 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 Chief Technical Examiner, that any work has been executed with unsound, imperfect, or unskillful 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 six 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 six 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 deduction 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 at 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 accredited 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 ensue.
- (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 & STATUTES

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 hinderance 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 interalia 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 him, 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 incapacitated 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 noncompliance 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 costs, 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.

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 therefrom. Provided that the contractor shall not be liable to 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 or any other contracting person 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 contract or 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 any 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 the 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 that 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 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 over-payment 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 sub-contractors, 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 constructions, 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.

#### 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-eighths of the work before one-half of such time has elapsed, and three-fourths of the work before 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 and 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 inferior workmanship or otherwise or to any claims for damages in respect of any breaches 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 judgement 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 wound 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 winding 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 hereof.
- (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 Engineer 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 the 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 payable 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 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. two lakhs and in six months if the same exceeds Rs. two 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 measurements thereof. Final payments shall be made only on the basis of detailed measurements.

- (c) A bill shall be submitted by the contractor each month on 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 contractor 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 fails to attend after such notice or fails 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) The contractor shall permit the Employer at the time of making any payment to him for the work done and measured to deduct sum at the rate of 10 % of the gross value of work done in each running bill along with the Earnest Money if any, as already deposited by the contractor will amount to 10 % of the estimated cost or Rs 5.0 lakhs whichever is less, unless full amount of security deposit in cash or in the form of fixed deposit receipts pledged in favour of the Employer has been deposited.
- (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 realised. 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 Employers dues or whatsoever dues either in this or any other contract then this security deposit either in full or in part could be refunded at the sole discretion of the Employer.

- (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

With in 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 contractor 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 the 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 realised by the sale thereof.

#### 28. ESCALATION

- (a) 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 provisions 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 provisions of Clause-22 of General Conditions of Contract without levy of compensation under Clause-20 of General Conditions 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 six months or less. Such compensation for escalation in the prices of materials and labour when due, shall be worked out based on the following provisions.
- (i) The base date for working out such escalation shall be the last date on which the tenders were stipulated to be received.
- (ii) The cost of work on which escalation will be payable shall be reckoned as the cost of the work as per the bills, running or final, and from this amount the value of material supplied by the Employer and proposed to be recovered in the particular bill shall be deducted before the amount of compensation for escalation is worked out. In case of materials brought to site for which secured advance is included in the bill full value of such materials as assessed by the Engineer in charge (and not the reduced amount for which secured advance has been paid), shall be included in the cost of work done for operation of this clause. Similarly when such materials are incorporated in the work, the secured advance is deducted from the bill the full assessed value of the materials originally considered for operation of this clause shall be deducted from the cost of work shown in the bill running or final. Further the cost of work shall not include any work for which payment is made for any item at prevailing market rates.
- (iii) The compensation for escalation for materials & labour shall be worked out as per the formula given below:

$$VM = W \frac{A}{100} \times \frac{(MI - M_{Io})}{M_{Io}}$$

VM—Variation in material cost i.e. increase or decrease in the amount in rupees to be paid or recovered.

W—Cost of work done worked out as indicated in sub para (ii) above.

A—Component of materials expressed as per cent of the total value of work and is predetermined as 75.

MI—Index numbers of Wholesale prices in India for all commodities published by the Reserve Bank of India for the period under reckoning.

MIo—Index numbers of Wholesale prices in India for all commodities published by the Reserve Bank of India on the date of receipt of tenders.

$$VL = W \frac{B}{100} \times \frac{(LI - LI_0)}{LI_0}$$

VL—Variation in labour cost i.e. increase or decrease in the amount in rupees to be paid or recovered.

W—Value of work done, worked out as indicated in sub para (ii) above.

B—Component of labour expressed as per cent of the total value of work and is predetermined as 25.

LI—All India consumer price index numbers for industrial workers published by the Reserve Bank of India for the period under reckoning as for the period under consideration.

LIo—All India consumer price index numbers for industrial workers published by the Reserve Bank of India and valid on the stipulated date of receipt of tenders.

- (b) The following principle shall be followed while working out indices mentioned in sub para (iii) above:
- (i) The compensation for escalation shall be worked out at half yearly intervals and shall be with respect to the cost of work done during the six calendar months of the said work. The first such payment shall be made at the end of the six months after the month (excluding) in which the tender was accepted and thereafter at six monthly interval. At the time of completion of work, the last period for payment might become less than six months, depending on the actual date of completion.
  - (ii) The index (MI or LI) relevant to any six months for which such compensation is paid shall be the arithmetical average of the indices 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 MI or LI shall be the average of the indices for the months falling within that period.
  - (iii) The base index (MIo or LIo) shall be the one relating to 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 case of contracts in which the stipulated period of completion of the work is six months or less.

## 29. ARBITRATION

- (a) Except where otherwise provided in the contract all questions and disputes relating to the meaning of the specifications, designs, drawings and instructions herein before mentioned and as to the quality or 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 to the contract, designs, specifications, estimates, instructions, orders on these conditions or otherwise concerning the works, or the execution of 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, at the time of such dispute or if there be no Director General, Council of Scientific and Industrial Research, the Administrative Head of the Council of Scientific and Industrial Research at the time of such appointment. The arbitrator to whom the matter is originally referred being unwilling or unable to act for any reason, such Director General or Administrative Head as aforesaid at the time of such inability or unwillingness to act shall appoint another person to act as 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. It is also a term of this contract that no person other than a person appointed by such Director General, Council of Scientific and Industrial Research or the Administrative Head of Council of Scientific and Industrial Research as aforesaid should act as arbitrator and if for any reason, that is not possible, the matter is not to be referred to arbitration at all. In all cases where the amount of dispute is rupees two lakhs and above, the arbitrator shall give speaking award.
- (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) The Arbitrator may from time to time with consent of parties enlarge the time, for making and publishing the award.
  - (e) Subject as aforesaid the provisions of the Arbitration Act, 1940, or any statutory modification or re-enactment thereof and the rules made thereunder and for the time being in force shall apply to the arbitration reference under this clause.

CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE  
( Council of Scientific & Industrial Research )  
PILANI (RAJ)

SPECIAL CONDITIONS

1. The special conditions are meant to amplify the general specifications and general conditions of the contract
2. Work shall be as per CPWD specifications.  
In case of any discrepancy the order of presence in interpretation shall be as under
  - (i) Schedule of quantities
  - (ii) Drawing
  - (iii) Additional Conditions
  - (iv) General conditions of contract
  - (v) General Specifications
  - (vi) Special conditions
  - (vii) CPWD latest Electrical Engineering Practice
  - (viii) I.S. Codes
  - (ix) International codes
  - (x) Best Engineering practice.
3. Contractor must visit the site before submitting their tenders and must get acquainted with the working conditions. They should include in their rates all preliminary work necessary for commencement of work. It will be deemed that the contractor in their tender rates have included allowance for all such preliminary works.
4. Rates quoted by the Contractors shall be deemed as NET RATES and it will be presumed that they have included in their rates allowance for increases or local bodies during the period of contract given in the agreement or as extended subsequently. The rates quoted will be deemed to have included all the necessary materials T & P, labour required for satisfactory completion of works. No enhancement in rates shall be allowed on tendered rates. Similarly nothing extra will be paid due to increase in the basic price of materials or taxes or impositions of duties etc. either by an act of Government or any other authorities.

Note: The Contractor should take into account the Rajasthan sales tax in their tender which will be deducted from the bill. At present the rate of S.T. is 1.5% and it can increase or decrease as per the Rajasthan Government and same will be deducted accordingly. The rates for extra or new items, if any, in the opinion of Engineer shall be final and binding on the contractor shall be derived from contract items in so far as applicable and in case it is not possible, this will be fixed on the basis of actual cost of materials and labour plus 10% contractor overhead and profit if CPWD schedule of the rates is not applicable. The decision of Engineer whatever any extra items is payable or not, what rate is to be paid for such items, shall be final, conclusive and binding on contractor.

## INDENTURE FOR SECURED ADVANCE

This Indenture made the \_\_\_\_\_ day of \_\_\_\_\_ 199\_ 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 the Employer which expression shall include its successors and assignees and authorised officers of the Society) of 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 materials 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 materials and labour and other charges) AND WHEREAS the Employer has agreed to advance to the contractor the sum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) on the 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 advances 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 presents paid to the contractor by the Employer (the receipt whereof the contractor doth hereby acknowledge) and of such further advances (if any) as may be made to him as aforesaid the contractor doth hereby covenant and agree with the Employer and declare as follows:-

1. That the said sum 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 encumbrances of any kind and the contractor indemnifies the Employer against all claims to any materials in respect of which an advance 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 (hereinafter 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 term of the said agreement.  
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.
5. 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 therefrom 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 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 thereon 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 utilise 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 in 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 moneys arising from the sale retain all the sums aforesaid repayable or 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 whereof the said \_\_\_\_\_ and \_\_\_\_\_ by the order and under the direction of the Employer have hereunto 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 \_\_\_\_\_

## AMENDMENTS - CONDITIONS OF CONTRACT FOR WORKS

S.NO	PAGE	PARA	MODIFY
1.	2	1(a)	Amend Six to Twelve
2.	5	1(b)	Add a new sub para after 'WORK' as below :- "EMPLOYER" shall mean Director-General, CSIR or any officer authorized by Director-General for the purpose.
3.	6	After para 3	Add a new para 3A :- *SUFFICIENCY of TENDER. The contractor shall be deemed to have satisfied himself before tendering as to the 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 matters and things necessary for the proper completion and maintenance of the works".
4.	8	6.	Add sub para (g) as "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".
5.	8	8(a)	Add "Annexure III refers."
6.	9	10	Add sub para 10(f) as "Deviation limits" Building work 30% Maintenance/emergency works 50% Foundation works 100% Services works 30%
7.	9	11 (b) first line 5 <sup>th</sup> line 7 <sup>th</sup> line	Modify to read as "If it shall appear to the Engineer or to the Employer based on audit/technical examination that any work has been executed."  Amend six to twelve
8.	12	19	Amend six to twelve
9.	16	26(d)	Add "Contractor shall obtain a valid license under Contract Labour (R&A) Act 1970 and Contract Labour (R&A) Central Rules 1971 before commencing work and which should be valid till the completion."  Add "However, release of security deposit would be only after written clearance of Labour Officer regarding no dues or claims is received."
10.	17	28	Add sub para (d) as "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 installations etc. where the price variation is not similar to building works."
11.	17	29 29	Modify as below :- 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,

			<p>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 to the contract, designs, 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 be final and binding on the parties. The cost of the Arbitrator shall be borne equally by both the parties.</p> <p>(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.</p> <p>(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.</p> <p>(d) Subject as aforesaid the provisions of the Arbitration and Conciliation Act, 1996, or any statutory modification or re-enactment thereof and the rules made there under and the time being in force shall apply to the arbitration reference under this clause</p>
12	18	Add para 30	<p>Add para 30 to as under : "DISMANTLED MATERIAL": The contractor shall treat all material obtained during dismantling of a structure, services sub systems/installations, excavation of the site for a work etc. a employer's property and such material shall be disposed of to the best advantage the Employer according to instructions issued in writing by the Engineer.</p>

13		Add para 31	Add para 31 as : PERFORMANCE GUARANTEES "Performance Guarantee may be taken from the contractor before the award of work, by the officer authorized to award the contract, if and where considered necessary, to ensure that a part or whole of the contract is completed by the contractor. In case of non-performance, this guarantee could be encashed.
14		2	Modify as "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 condition (vi) Additional Technical Specifications (vii) CPWD Latest Civil and Electrical specifications (viii) IS codes (ix) International codes (x) Best Engineering practice
15			Add Annexure III as below ; Contractor's Site Superintendence  Staff to be employed by contractor on works. The contractor shall employ the following technical staff during execution of works :-  (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 tendered cost of work is more than 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 5 years, out of which 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 recognized 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. (ii) One Graduate Electrical Engineer with two years experience or a Diploma holder in Electrical Engineering with experience of not

			<p>less than 3 years, when the tendered cost of the work is more than Rs 75,000 but less than Rs 1.5 lakhs.</p> <p>(iii) One Diploma holder in Electrical Engineering with experience of not less than 3 years when tendered cost of work is more than Rs 37,000 but less than Rs 75,000.</p> <p>(iv) One licensed Supervisor with experience of not less than 3 years when the tendered cost of work is more than Rs 7,500 and less than Rs 37,000.</p> <p>(d) In case the contractor fails to employ the technical staff as aforesaid, 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 CPWD based on CPWD:</p> <p>(i) In case when a Graduate Engineer is to be employed Rs 3,000/-.</p> <p>(ii) In case when a qualified Diploma holder is required to be employed Rs 1,500.</p> <p>(iii) In case when a technical supervisor is required</p>
16	16	Clause 28 Para (ii)	<p>"The cost of work on which escalation will be payable shall be reckoned as 85% of the cost of the work as per the bills, running or final, and from this amount the value of material supplied by the Employer..... any items at prevailing market rates".</p>

	AMMENDMENT OF CONTRACT FOR WORKS IN CSIR	AMENDED PROVISION
PARA	Security deposit shall be deducted from the running bills at 10% of the gross value of work done and measured inclusive of Earnest Money subject to a maximum of Rs 5.00 Lakhs ( Rupees five lakhs only).	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 for commencement of work in the letter of award issued to him.
Page 15 Ppara-26 (a)	Security deposit: The contractor shall permit the Employer at the time of making any payment to him for the work done and measured to deduct sum at the rate of 10% of the gross value of work done in each running bill alongwith the earnest money if any, as already deposited by the contractor will amount to 10% of the estimated cost or Rs 5.0 lakhs whichever is less, unless full amount of security deposit in cash or in the form of fixed deposit receipts pledged in favour of the Employer has been deposited.	As per I above.
Page 16 para 28(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 provisions 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 provisions of Clause 22 of the General Condition 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 six months or less. Such compensation for escalation in the prices of materials and labour, when due, shall be worked out based on the provision.	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 provisions 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 provisions of Clause 22 of the General Condition 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.

Further the earnest money deposit will be 2% of the estimated cost of work for works costing upto Rs 25 crores and Rs 50 lacs and 1% of the excess of the estimated cost over Rs 25 crore instead of 2.5% of the estimated cost with a maximum limit of Rs 1.00 lacs only being sought presently.

Subject: - Implementation of modified provision in Service Tax - Clause No.5 of GCC.

The existing provision of GCC in CSIR and modified provision after incorporating service tax on the basis of modification of CPWD is given below in the tabular form:-

S.No	Existing Provision- Clause No.5 of GCC	Modified Provision
1	<p><b><u>Rates to include all Taxes</u></b></p> <p>(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 statutes. 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 the 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.</p> <p>(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.</p> <p>(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.</p>	<p><b><u>Rates to include all Taxes</u></b></p> <p>(a) Rates quoted by the contractor shall include sales tax / VAT (except service tax), purchase tax, turnover tax, duties, octroi, toll tax, royalties and all other taxes in respect of this contract. The Employer shall not entertain any claim whatsoever in this respect. However, in respect of service tax, same shall be paid by the contractor to the concerned department on demand and it will be reimbursed to him by the Department after satisfying that it has been actually and genuinely paid by the contractor. The applicable and eligible service tax shall be reimbursed preferably within 7 days but not later than 30 days of submission of documentary proof of payment provided same are in order. Tendered rates are inclusive of all taxes and levies payable under the respective statutes. 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 the 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.</p> <p>(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.</p> <p>(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.</p>

**\*\*\*Additional conditions\*\*\***

1. The structural and architectural drawing shall at all times be properly concealed before executing any work. However, in case of any discrepancy in the item given in the schedule of quantities appended with the tender and drawing relating to the relevant item the former shall prevail unless and otherwise given in the writing by engineer.
2. No payment shall be made to the contractor for any damages caused by rain, snow fall, 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 cost and no claim on this account shall be entertained.
3. All material used shall be as per specifications and ISI marked wherever applicable, ISI marking referred related to latest BIS code as published by Bureau of Indian Standard up to 30 days before the date of opening the tender.
4. The contractor shall give a performance test of the entire installation(s) as per standard specifications and/or directed by the Engineer and will also submit. The test certificates 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.

## PERFORMANCE GUARANTEE

To

Council of Scientific & Industrial Research

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 dated — 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 the 'bank' do hereby undertake to pay to the Council an 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 amounts 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 fails, before the terms of this guarantee expires, to furnish a fresh or renewed guarantee for the extended period, the Bank shall pay to Council the 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 hereinbefore 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 \_\_\_\_\_ 19\_\_\_\_ unless claim or demand under this guarantee is presented to the Bank within six months from that date all the rights of Council under this guarantee shall be forfeited and the Bank shall be released and discharged from all obligations hereunder.

## SCOPE OF WORK

1. Supply, Installation, Testing, and Commissioning of eco- friendly refrigerant (R-32/R-410A) based **VRV/VRF type air conditioners with outdoor machines and indoor units**. All units should be complete in all respect.
2. Supply, Installation, Testing Commissioning of set of suction and discharge refrigerant copper pipes (thickness should not less than 0.9 mm) of suitable size for above units with copper pipe fittings like elbows, couplers, reducers, tee joints, Y-joints/refnet joints etc as required. Refrigerant pipes duly insulated with elastomeric nitrile tubular rubber insulation between indoor & outdoor units.
3. Supplying and fixing of powder coated M.S. 'C' channel type trays with cover (for refrigerant pipes) including connectors, bend, tee etc. and fitted on wall/floor/ roof with M.S. fasteners, supports, clamps/MS hanger etc. as required.
4. Supply and fixing of heavy duty rigid UPVC piping (for drain) on wall complete with fittings and clamps/supports etc.
5. Supplying and Fixing of powder coated M.S. stand for all outdoor units, including Fasteners (Fischer) & Fixtures etc. Complete in all respect.
6. Supply and fixing of flexible copper cable, shielded control cum communication cable and armoured copper cables.
7. Lifting, Shifting, Loading, Unloading works of outdoors machines, indoor units and electrical panels shall be in bidder's scope. No extra charge shall be paid in this regard.
8. Jointing, brazing, cutting, cladding, fixing work of refrigerant pipes and power supply to indoor and outdoor unit shall be in scope of bidder.
9. Nitrogen required for pressure testing and additional refrigerant required (as per liquid line length) for proper functioning of units shall be in bidder' scope.
10. One 18 hp outdoor machine would be connected with eight indoor units (2Tr) of Room no. 50,51, 63 and 63A .
11. Another 18hp outdoor machine would be connected with eight indoor units (2Tr) of Gyrotron lab.
12. 16 hp outdoor machine would be connected with seven indoor units(2Tr) of Room no. 44,45 46A, 47,48.
13. 12 hp outdoor machine would be connected with five indoor units(2Tr) of Room no. 41,42.
14. 5 hp outdoor machine would be connected with two indoor units(2Tr) of grinding section of central workshop.

Signature of Bidder

## **SPECIAL TERMS AND CONDITIONS**

1. Bidder may visit the site of work and understand the nature and scope of the work and doubts of any nature should be get clarified before quoting.
2. Rate should include charges for removal of debris out of premises, removing stains, cleaning the site thoroughly and restoring it to original condition where work is undertaken.
3. Quoted rate should be workable and should include all taxes, overheads and profits.
4. Rate should include all duties, octroi, levies, and payment of wages as per Act etc. and should be firm for the entire contract period. No variation of rates will be allowed. Rates (Including all taxes) have to be mentioned as per format given in financial bid.
5. All works related to installation, testing and commissioning of VRV/VRF type air-conditioners like making holes in the brick/stone walls for passage of copper pipes, control cum communication cables, power cables, drain pipes and mounting of stands and supply and putting PVS sleeve in holes etc. shall be done by the bidder. All tools and tackles should be brought by the bidder for proper execution of works. No extra payment will be made in this regard.
6. No advance payment will be paid by the institute in any case.
7. The bidder shall observe all the safety precautions for the safety of the labour and the employees of the institute during execution of works. The bidder would be responsible for the safety of persons employed by him.
8. The bidder shall be responsible for injury to persons or things and for damages to the property of the institute which may arise from omission or negligence of the bidder or their employees, whether such injury or damages arises from carelessness, accident or any other cause whatsoever, in any way connected with carrying out of the work.
9. All the conditions of the contract shall be binding on the bidder.
10. The bidder shall comply with all the applicable Acts, Rules, Regulations, requirement of Law (s) for entering into contracts and the Institute will not in any way be liable or responsible for any default/irregularities/penalties on the bidder's part.
11. Payment will be made as per actual measurement.
12. The contractor shall submit layout drawing and will take prior approval from engineer in-charge before execution of work. No extra payment will be made in this regard.
13. The set of Suction and Discharge refrigerant pipes with insulation would be measured combinedly as single unit.
14. Defect liability period will be One year and warranty on Machine will be as per Manufacturer.

**Signature of the Bidder**

**UNDERTAKING BY THE TENDERER**

(To be given on Company Letter Head)

I/We, the bidder(s) have read/gone through the contents of the NOTICE INVITING TENDERS/TENDER DOCUMENT carefully and accordingly hereby giving undertaking to abide by the same terms and conditions of tender documents and are fully acceptable to me.

Department reserves the right of Non-consideration of Tender documents of the agencies who are not fulfilling the NIT stipulations and / or having adverse report on the works carried out by them in the past.

(Signature of the Tenderer, with Official Seal)

**TENDER ACCEPTANCE LETTER**  
(To be given on Company Letter Head)

**ANNEXURE - II**

To,

The Director,

CSIR-CEERI, Pilani (Rajasthan)

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No: 13-8(163)/2022-EME.

Name of Tender / Work "SITC of VRV/VRF type air conditioners for Central workshop, Gyrotron lab, Old administrative block at CSIR-CEERI, Pilani (Rajasthan)".

Dear Sir,

1. I / We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/Work' from the web site(s) namely: E-tendering portal <https://etenders.gov.in/e procure/app> As per your advertisement given in the above mentioned website(s).
2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents (including all documents like GCC, Scope of work, annexure(s), schedule(s), Undertaking, Tender Acceptance letter etc., which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.
3. The corrigendum (s) issued from time to time by your department / organization too has also been taken into consideration, while submitting this acceptance letter.
4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.
5. I / We do hereby declare that our Firm has not been blacklisted/ debarred by any Govt. Department/Public sector undertaking.
6. I / We certify that all information furnished by the our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department / organization shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,

(Signature of the Tenderer, with Official Seal)

### Schedule of Quantity

**Name of work:-** “SITC of VRV/VRF type air conditioners for Central workshop, Gyrotron lab, Old administrative block at CSIR-CEERI, Pilani (Rajasthan).

Sl. no.	Item description	Qty.	Units	Rate (Rs.)	Total Amount (Rs.)	Total Amount (In words)
1	Supply, Installation, Testing Commissioning of VRV/VRF Outdoor machines for air conditioning system, comprising of scroll/screw/rotary compressors with R-410A/R-32 refrigerant, DC fan motor with fan blade, heat exchanger, safety valves, solenoid valves receiver, capillary tubes, checks valves, electronic expansion valves, low pressure sensor, refrigerant filter, stop valve, Y-joints/refnet kits and making joints etc. Rate inclusive of refrigerant and oil pre charging, vibration isolators, supports, necessary foundation/pedestal works etc. Condenser coil & fins provided with anti corrosive treatment, necessary accessories for oil separation, flow control, interconnecting piping, condenser air fan, electrical and microprocessor based panel, interconnecting cabling, all housed inside a weather proof cabinet suitable for exposed installation on ground including pressure testing, vaccuming, charging of refrigerants etc. as per requirement for proper functioning of the units. <b>Preferable Make:</b> Hitachi, O'General, Daikin, Blue star					
1.1	Outdoor machines (cooling only)- 18HP	02	Nos.			
1.2	Outdoor machines (cooling only)- 16HP	01	No.			
1.3	Outdoor machines (cooling only) -12HP	01	No.			
1.4	Outdoor machines (cooling only)— 5HP	01	No.			

2	Supply, Installation, Testing Commissioning of VRV/VRF indoor units with wireless remote controller, multi speed blower, high efficient filter, inbuilt microprocessor, including cooling coil of copper tubes and aluminium fins, drain pan, indoor unit mounting plate etc. Indoor units along with remote control must compatible with outdoor machines. <b>Preferable Make:</b> Hitachi, O' General, Daikin, Blue star					
2.1	Wall mount type indoor unit(cooling only)- 2.0TR	30	Nos.			
3	Supply and fixing of set of hard drawn suction and discharge refrigerant copper pipes (thickness should not less than 0.9 mm) of suitable size for above VRF/VRV units with fittings like elbows, couplers, reducers, tee, Y-joints/Refnet joints etc. Refrigerant pipes duly insulated with elastomeric nitrile tubular rubber insulation between indoor & outdoor unit. <b>Preferable Make:</b> Rajco/Mandev/yorkshire/Totaline/vaishali/Maxflow /Parasmani	415	RMT			
4	Supplying and fixing following size powder coated M.S. 'C' channel type trays with cover (for refrigerant pipes) including connectors, bend, tee etc. and fitted on wall/floor/ roof with M.S. fasteners, supports, clamps/MS hanger etc. as required.					
4.1	100 mm width X 50 mm depth X 0.9 mm thickness	160	RMT			
4.2	200 mm width X 75 mm depth X 0.9 mm thickness	240	RMT			
5	Supply and fixing of heavy duty rigid UPVC piping (for drain) on wall complete with fittings and clamps/supports etc. The joints shall be properly sealed with rubber based adhesive to ensure proper bonding. The rate shall include UPVC Coupler, reducer, socket, bend, Tee as required as per the site to connect with the Drain Hopper of IDUs.					
5.1	25 mm dia. rigid U PVC pipe.	190	RMT			
6	Supplying and Fixing of following sizes powder coated M.S. stand for all outdoor units, including Fasteners (Fischer) & Fixtures etc. Complete in all respect.					
6.1	M.S. stand(18hp outdoor machine)	02	Nos.			
6.2	M.S. stand(16 hp outdoor machine)	01	No.			
6.3	M.S. stand(12hp outdoor machine)	01	No.			
6.4	M.S. stand(05 hp outdoor machine)	01	No.			

7	Supply and laying of following sizes of FRLS PVC insulated flexible copper conductor cable of 1.1 KV grade for power supply to indoor unit i/c providing and laying of suitable size PVC casing capping from power point to indoor unit on surface and where ever required etc. as required. <b>Preferable Make:</b> Finolex, KEI, Havells, Polycab, L&T,RR					
7.1	3C x 1.5 Sq.mm cable	180	RMT			
8	Supply and laying of following size overall shielded Control cum Communication cable in suitable PVC conduits between indoor and outdoor units. <b>Preferable Make:</b> Finolex, KEI, Havells, Polycab, L&T,RR,Universal.					
8.1	2C x 1.0 Sq.mm shielded cable	500	RMT			
9	Supply of following sizes of 1.1KV grade Copper conductor XLPE insulated and PVC sheathed armoured cable conforming to IS : 7098 (Part-I) 1988 of as required. <b>Preferable Make:</b> KEI, Havells RPG, Unistar, Skytone, Polycab.					
9.1	3.5core x 50 Sq.mm. Copper Cable	20	RMT			
9.2	3.5core x 25 Sq.mm. Copper Cable	180	RMT			
10	Providing and fixing 4.00 mm dia. copper earth wire on surface or in recess for loop earthing along with existing surface / UG cable as required.	200	RMT			
11	Laying and fixing of PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface with supports clamps etc. as required.					
11.1	Above 35 sq.mm and up to 95 Sq.mm	20	RMT			
11.2	Up to 35 sq.mm	180	RMT			
12	Supply& making one end termination with heavy duty single compression brass gland SIBG type, copper lugs duly crimped with crimping tool, PVC tape etc. for following size of armoured PVC insulated & PVC sheathed copper cable of 1.1 KV grade as required.					
12.1	3.5core x 50 Sq.mm. Copper Cable	2	Nos.			
12.2	3.5core x 25 Sq.mm. Copper Cable	8	Nos.			

13	<p>Supply, fabricating, testing and commissioning of Kiosk type weather proof distribution feeder pillar box of size 800 x 850 x 300mm with a taper of 75mm at top (for protection from rain water) and made out of 3.2 mm (10 gauge) thick CRCA MS Sheet, front and back both side openable, duly hinged doors with locking arrangement by providing both sides hold drafts and all hardware for fabrication of box. The cubical panel should be dust and vermin proof followed by duly phosphatized and powder painted in gray or required shade after rinsing. The cubical panel should be mounted with hardware on angle iron frame 40 x 40 x 6mm and 400mm long legs duly primered and black painted. Frame be grouted with metal fastener and cement concrete 1:3:6 ratio in 150 x 150 x 450mm and providing brick masonry along angle iron frame above ground level, complete in all respect including S/F of following accessories, their inter connections with suitable size FR PVC copper wires, lugs, testing etc.as reqd. Area of board should not less than 0.68 Sq.mtr.(as per line diagram). Panel should be fabricated through electrical panel builders only and Delivery challan should be produce along with panel. The panel should comprising of as per following –</p> <p><b>Preferable panel fabricators:-</b></p> <ul style="list-style-type: none"> <li>• Krypton power control(India) Pvt .Ltd., delhi</li> <li>• Electro power Pvt .Ltd.,Noida</li> <li>• KMG A to Z system Pvt.Ltd.,Noida</li> <li>• SPC Electrotech Pvt.Ltd., delhi</li> <li>• Johns Electric Co. Pvt.Ltd.,Jaipur</li> <li>• Westron control&amp; automation,Bhiwadi</li> <li>• Nitya Electro control,Noida</li> </ul> <p><b>INCOMER:</b></p> <p>a) 1No- quick make and quick break 4 Pole current limiting MCCB- 125 Amp., 35 KA with adjustable O/L setting &amp; Thermal Magnetic Release and conforming to IS:13947-2/ IEC 60947-2 with front face and centralized adjustable, line load inter changeability including making connections with lugs/ spreaders etc. as required.<b>(Preferable make: Seimens,Havells,Scheider,L&amp;T,GE)</b></p> <p>b) 1 Set – 200 A, 4 strips copper bus bar of suitable length, fixed on SMC/DMC type insulators &amp; colour coding with heat shrinkable PVC sleeves.</p> <p>c) 1 set- Digital Volt meter (0 - 500V) with in-built selector</p>	01	Set			
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	<p>switch and 3Nos SP AC control MCBs-2A of approved make for 3-phase supply including making connections with lugs, testing etc.</p> <p>d) 1Set- Digital Ammeter with built-in selector switch 3 Nos. CTs 125/5A for 3 phase supply including making connections with lugs, testing etc.</p> <p>e). 1set- Suitable size TP&amp;N Input Terminals to receive XLPE Copper/ Al. cable of 1.1KV grade for incoming circuit.</p> <p><b>OUTGOING:</b></p> <p>a) 2 Nos.- quick make and quick break 3Pole current limiting MCCB- 63 Amp., 35 KA with adjustable O/L setting &amp; Thermal Magnetic Release and conforming to IS:13947-2/ IEC 60947-2 with front face and centralized adjustable, line load inter changeability including making connections with lugs/ spreaders etc. as required..(<b>Preferable make: Seimens, Havells, Scheider,L&amp;T,GE</b>)</p> <p>b). 2 sets- Suitable size TP&amp;N Terminals to receive XLPE Copper/ Al. cable of 1.1KV grade for outgoing circuits.</p>					
		<b>Total (Rs.)</b>				
<b>Total Rupees (in words):</b>						