

**TENDER DOCUMENT**  
**FOR**  
**CIVIL, PLUMBING, ELECTRICAL AND**  
**RENOVATION WORKS FOR**  
**EXISTING CANTEEN BUILDING AT**  
**ARCI, BALAPUR, HYDERABAD**



Owner

**INTERNATIONAL ADVANCED RESEARCH CENTRE FOR  
POWDER METALLURGY AND NEW MATERIALS  
(ARCI)**

**Balapur PO, R.R. District, Hyderabad – 500 005, India**

Tel: 040-24452376, 24452319, Fax: 040- 24442699



**INTERNATIONAL ADVANCED RESEARCH CENTRE  
FOR POWDER METALLURGY AND NEW MATERIALS (ARCI)**

*An autonomous R&D Centre of DST, Government of India*

Balapur (PO), HYDERABAD – 500 005.

Telephone: 040 24452319/376

**Ref No: - CL20170143**

**Date: 6<sup>th</sup> Jan 2018**

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Director, ARCI invites sealed tenders in two bid system (Technical and Price Bid) from Contractors registered with State and Central Government agencies /Departments or Corporate Houses or MNCs for Extension/Renovation of Canteen building at ARCI, Balapur. Approximate Estimated cost Rs 94.50 lakhs.

Tender documents should be down loaded from ARCI website “<http://www.arci.res.in>”. Tenderers should enclose DD for Rs. 1500/- towards the tender document fee. Tenders not accompanied with tender document fee and EMD will be rejected. Last Date for Submission of filled-in Tender document in all respects is: 29<sup>th</sup> Jan 2018 (15.00 Hrs).

Director, ARCI

## NOTICE FOR INVITATION OF TENDERS

Sealed Tenders on Item Rate basis are invited by International Advanced Research Centre for Powder Metallurgy and New Materials, (ARCI), an autonomous R&D Society of Department of Science and Technology, Govt. of India, for Extension/Renovation of Canteen building at ARCI

\* Tender to be addressed &  
Deposited at

Director  
**International Advanced Research Centre  
for Powder Metallurgy & New Materials  
(ARCI)**  
Balapur P.O.  
Hyderabad- 500005.  
Phone no- 040 -24452376 / 24452319  
Fax no-040-24442699

Tenders are to be deposited in a sealed envelope at security gate marked as **TENDER FOR EXTENSION/RENOVATION OF CANTEEN BUILDING AT ARCI**

- \* Earnest Money Deposit (EMD): An amount of Rs 2,36,250/-(Rs.Two lakhs thirty six thousands two hundred fifty rupees only) in the form of a bankers cheque or demand draft in favour of Director ARCI payable at Hyderabad from any nationalized bank/Scheduled commercial Bank.
- \* **Estimated Cost :** Rs.94.50Lakhs
- \* Time of Completion of work: 5 Months from date of Purchase order
- \* Last Date and Time for Receipt of Tenders Up to 15.00 Hrs **on 29th Jan 2018**

Director, ARCI is not bound to accept the lowest tender and reserves the right to accept or reject any or all Tenders without assigning any reason whatsoever.

Tender documents should be downloaded from ARCI website “<http://www.arci.res.in>”. Tenderers should enclose DD for Rs 1500/- towards the tender document fee and also EMD amount. Tenders not accompanied with tender document fee and EMD will be rejected. Last Date for Submission of filled-in Tender document in all respects is: **29th Jan 2018 (15.00 Hrs)**.

## **II. INSTRUCTIONS TO TENDERERS**

### **A: GENERAL INSTRUCTIONS**

#### **1.0 Scope of Tender**

International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI) (referred to as Owner in these documents) invites Tenders for Extension/Renovation of canteen building at ARCI, Balapur.

The successful Tenderer shall complete the works within the completion date specified in the Notice Inviting Tenders (NIT).

#### **2.0 Non Association / Relation**

2.1 Should a contractor or a tenderer have a relative employed in officer cadre in ARCI or in case of partnership firm or company incorporated under the Indian company act, should a partner or relative of the partner or a share holder be employed in a responsible capacity in ARCI, the authority inviting the tender should be informed of the fact at the time of submission of tender, failing which the tender may be rejected. If such fact is suppressed at the time of tendering and comes to light at any time after acceptance of tender, the contract may be rescinded.

#### **3.0 Eligibility Criteria**

1. Registered with any government organization/Departments or Corporate Houses or MNCs and should have executed similar nature of works during the last 7Years financial years ending with Mar 2017.

- One similar completed work costing not less than the amount equal to 80% of the estimated cost.

Or

- Two similar completed work costing not less than the amount equal to 50% of the estimated cost.

Or

- Three similar completed work costing not less than the amount equal to 40% of the estimated cost.

#### **Similar Works:-**

Civil construction works (i.e. construction works, Granite flooring, ceramic flooring, Ceramic cladding, Painting works, plumbing and internal Electrification works for Office buildings)

2. Average Annual financial turnover the last 3years ,ending 31st March of the previous financial year,should be at least 30% of the estimated cost.

3. The tenderer should submit details of works completed during last 7 years with year ending on 31<sup>st</sup> Mar 2017

4. The tenderer shall furnish a copy valid GST registration with commercial tax department.

5. The tenderer should furnish copy of permanent account number (PAN) and copy of latest income tax returns submitting along the proof of receipt.

6. Current solvency certificate minimum of 50% of estimated cost, in original from a scheduled commercial bank. The certificate should not be more than 1 month old.

#### **4.0 Qualification of the Tenderer**

4.1 All Tenderers shall provide Eligibility Criteria information

4.2 All Tenderers shall include the following information by producing relevant documents and certificate with their Tender.

Conditions of the contract enclosed each page duly signed by the tenderer as token of acceptance. If any deviation is proposed by the tenderer the same must be clearly indicated and enclosed as deviation list but tenders with significant deviations list and merely enclosing tenderer's printed conditions or their own terms and conditions will make the tender liable for rejection.

4.3 Submission of Earnest money deposit as laid down in these instructions to tenderers.

#### **5.0 Cost of Tendering**

5.1 The Tenderer shall bear all costs associated with the preparation and submission of his Tender, and the Owner will in no case be responsible and liable for those costs.

The Tenderer, at the tenderer's own responsibility and risk, is encouraged to visit and examine the site of works and its surroundings and obtain all information that may be necessary for preparing the tender and entering into a contract for Extension/Renovation of Canteen Building at ARCI, Balapur, Hyderabad. The costs of visiting the site shall be at the tenderer's own expense.

**ELIGIBILITY CRITERIA INFORMATION**

**CHECKLIST TO ACCOMPANY THE TENDER**

<b>Sl. No.</b>	<b>Document to be Submitted</b>	<b>Description to be given</b>	<b>Scanned documents/ photocopy to be Submitted</b>	<b>Column 5</b>
<b>(1)</b>	<b>(2)</b>	<b>(3)</b>	<b>(4)</b>	<b>(5)</b>
1.a)	Contractors registration under appropriate class with Govt./PSU /MNC.	Registration	Yes / No	
b)	Partnership deed in case of firms & Article of Association in case of companies			
2.	Copy of Permanent Account Number (PAN) card and copy of latest Income Tax returns submitted along with proof of receipt.	PAN & IT Returns	Yes / No	
3.	Experience certificates in support of annual turnover in Civil &Electrical works	Annual turnover	Yes / No	
4.	Completion certificates in support of satisfactory completion of similar nature of works along with purchase/work orders	Similar work	Yes / No	
5.	Availability of equipment	Critical Equipment	Yes / No	
6.	Availability of key personnel	Key personnel	Yes / No	
7.	Credit facilities/solvency certificates from banks	Credit facilities	Yes / No	
8.	E.M.D	EMD	Yes / No	
9.	GST Registration with number	GST Registration	Yes / No	
10.	Cost of Tender document Rs 1500/- if document is downloaded from the ARCI website.	Yes / No	Yes / No	

All experience certificates including those in support of existing commitments issued by an Officer not below the rank of Executive Engineer (or) Equivalent grade.

All the statements copies of the certificates, documents etc., enclosed to the Technical bid shall be given page numbers on the right corner of each certificate, which shall be indicated in column (5) against each item.

## **6.0 Contents of documents**

Contract documents consists of

- Notice for invitation of Tenders
- Instructions to Tenderers
- Articles of Agreement
- General conditions of contract (GCC)
- Special conditions of contract (SCC)
- Schedule of Fiscal Aspects
- Guarantee Proforma for Retention Money
- Form of performance guarantee / Bank guarantee bond
- General Technical Specifications
- List of Makes
- Bill of Quantities
- Detailed description of Bill of Quantities

The Tenderer shall be deemed to have examined all instructions, forms, terms, and specifications in the Documents. Failure to furnish the information required by the Tender Document or submission of a Tender not substantially responsive to the Tender Documents in every respect will be at the Tenderer's risk and may result in the rejection of the Tender.

The several documents forming the contract are to be taken as mutually explanatory of one another, detailed drawings being followed in preference to small scale drawing and figured dimensions in preference to scale and Special Conditions in preference to General Conditions.

In case of any discrepancy between the Schedule of Quantities, the specifications and/ or the drawings, given in the tender document the following order of preference shall be observed:

- Description of Schedule of Quantities.
- Particular Specification and Special condition, if any.
- Drawings.
- Specifications.
- Latest edition Indian Standard Specifications of B. I. S.

## **7.0 Amendment of Tendering Documents**

7.1 Before the deadline for submission of Tenders, the Owner may modify the Tender documents by issuing addenda.

- 7.2 Any addendum thus issued shall be part of the Tender documents and shall be communicated in writing or by fax to all the eligible contractors. The eligible contractors shall acknowledge receipt of each addendum by fax to the Owner.
- 7.3 To give prospective Tenderers reasonable time in which to take an addendum into account in preparing their Tenders, the Owner may extend if necessary the deadline for submission of Tenders.

#### **8.0 Earnest Money Deposit (EMD)**

Tender EMD amount of **Rs.2,36,250/-** in the form of a bankers cheque or demand draft in favour of Director, ARCI, payable at Hyderabad must accompany each Tender. **Tenders not accompanied by EMD and unconditional acceptance letter will be summarily rejected.**

The EMD of the unsuccessful Tenderers will be discharged / returned within 8 weeks from the last date of tender submission. The EMD of the successful Tenderer shall be retained till submission of performance guarantee as per clause 24 of general instructions.

The EMD of successful tender shall be refunded on submission of performance guarantee as per general instructions.

The EMD may be forfeited: if the Tenderer withdraws his Tender during the validity period of the Tender; or in case of a successful Tenderer fails to furnish performance guarantee.

#### **9.0 Period of validity of Tender**

The Tender shall remain valid for a period of 90 days after the last date of the submission of tender. A Tender valid for a shorter period, may be rejected by the owner.

#### **10.0 Language of Tender**

- 10.1 The document shall be written in English language. The total amount should be written in the same language.

#### **11.0 Document comprising the Tender**

- 11.1 No page of this Tender document shall be removed and the set must be submitted as it is. Each page of the Tender document form is to be signed by the Contractor and must bear the Seal of the Company/Firm.

#### **12.0 The Tender submitted by the Tenderer shall comprise of the following:**

1. Technical bid in a separate sealed cover comprising of.
  - a. Eligibility Criteria Information
  - b. Instructions to tenderers
  - c. Conditions of the contract enclosed, each page duly signed by the tenderer as token of acceptance. If any deviation is proposed by the tenderer the same must be clearly indicated and enclosed as deviation list but tenders with significant deviations list and merely enclosing tenderer's printed conditions or their own terms and conditions will make the tender liable for rejection.
  - d. Specifications & drawings

- e. Earnest money deposit as laid in these instructions to tenderers.
  - f. statement of list of deviations if any from tender conditions.
  - g. Tender cost of Rs.1500/- in the form of D.D. in favour of Director, ARCI if tender is downloaded from ARCI web site.
2. Price Bid in a separate sealed cover comprising
    - a. Price Schedule with prices (Both in words and in figures) strictly in accordance with the price schedule format of the tender document. Departure from the price schedule format may render the tender liable for rejection
  3. These two Sealed covers are to be placed in a single envelop. The envelop duly sealed & super-scribed with the name of work Ref No.CL20170143 should be addressed to Director ARCI, RCI road, Balapur, Hyderabad-5 on or before the scheduled date and time. i.e., **29th Jan 2018 up to 15.00Hrs.**

### 13.0 Tender Prices

- 13.1 The contract shall be for the whole works as described in tender document based on the priced Schedule of Quantities submitted by the Tenderer.
- 13.2 The tender submitted on behalf of a Firm/Company, shall be signed by a person who has the proper legal authority on behalf of the Company to enter into the contract; otherwise, the tender is liable to be rejected. Each page of the tender document and each drawing accompanying is required to be signed by the authorized person submitting the tender, affixing the Firm/company seal in token of their having examined and acquainted themselves with the contents of each page. The forms of tender are to be filled in completely. Any tender with any of the documents not duly signed is liable to be rejected.
- 13.3 The Tenderer shall fill in the rates for all items of the Works described in the Schedule of Quantities along with total Tender price. **In case the rates are not filled for any of the Items of Schedule of Quantities, in such cases the rate will be considered as zero and the contractor has to accept for the amount arrived based on zero rate for non quoted items.** Failure to comply with either of these conditions will make the tender liable for rejection and forfeiture of Earnest money.
- 13.4 All duties, taxes, and other levies payable by the Contractor under the contract, or for any other cause, shall be included in the rates, prices and total Tender Price submitted by the Tenderer. Tenderers must include in their rates, the cost of transportation of materials to site, seignorage charges, sales tax, Income tax, Value added tax (VAT)/GST, Cess as per Building & Other Construction Workers Cess Act, excise duty, octroi, and any other tax and duty levied by the Central / State Government. None of the above taxes & levies will be entertained separately by the Owner and no tax exemption forms will be issued by the Owner.VAT/GST on works contract will not be reimbursed to the Contractor. All the taxes levied other than IT should be paid either directly by the contractor to the statutory authorities and challans/proof of payment with acknowledgement shall be provided by the contractor before release of the payment of next bill or shall be deducted at source.
- 13.5 Contractor should also take a Group Insurance Policy for his Workmen, Supervisors and Engineers working on site for an adequate insurance cover. ARCI shall not be responsible for any accident or any untoward/unforeseen event involving workmen, labour, supervisor or engineer or any person directly or indirectly

- associated with the execution of work. The insurance policy to be obtained by the successful Tenderer must be comprehensive and shall cover all associated risks (known and unknown) from any Government Insurance Company.
- 13.6 The rates quoted in the tender shall include cost of telephone rent and call charges, for execution of work at site, hire for any tools and plants, shed for materials, marking out and transportation complete, cleaning the buildings and surroundings after execution of the total works and dumping the waste at designated place as directed by the Owner in all respects. The rates quoted in the tender shall be treated as rates for finally completing the item of work.
- 13.7 The quantities furnished in the schedule of quantities are only probable quantities and are liable to alterations, by omission, deductions or additions to any extent at the discretion of Owner. Payments will be regulated on the actual quantities of work done at accepted rates. Any item of work may be omitted from the schedule of quantities and may be awarded to another agency at any time / stage of the work for which no compensation will be paid by the Owner i.e. for non-operated BOQ items and short closed BOQ items.
- 13.8 The rates and prices quoted by the Tenderer shall be fixed for the duration of the contract and shall not be subject to escalation or adjustment on any account even if the work is delayed due to unavoidable circumstances beyond the control of owner/consultant.
- 13.9 The calculations made by the tenderer should be based upon quantities of the items of work which are furnished in the Schedule of Quantities, but it must be clearly understood that the contract is not a lump sum contract. The Owners do not in any way assure, represent or guarantee that the said probable quantities are correct or that the work would correspond thereto. The items of work irrespective of the quantities which may vary shall be carried out at the same accepted tender rates and no escalation in the rates will be entertained whatsoever. Any item of work may be omitted from the schedule of quantities and may be awarded to another agency at any time / stage of the work.
- 13.10 The tenderers must obtain for themselves on their own responsibility and their own expenses all the information which may be necessary, including risks, contingencies and other circumstances to enable them in making a proper tender and for entering into a contract, and must examine the drawings, specifications and conditions and inspect the site of the work, nature of the work, availability of power, water, shelter for workmen and all the matters pertaining thereto before submitting the tender.

#### **14.0 Format and signing of Tender document**

- 14.1 The tenderer shall seal the bid in an envelope, duly marked as — **TENDER EXTENSION/RENOVATION OF CANTEEN BUILDING AT ARCI, BALAPUR, HYDERABAD.** Which shall include Tender form duly signed by the tenderer on their letter head along with tender documents mentioned under clause 12 and priced BOQ document in single envelope. Please refer “Clause No. 12 of preparation of tender documents comprising tenders in Instructions to Tenderers”.
- 14.2 The Tender shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign on behalf of the Tenderer. All pages of the Tender where entries or amendments have been made shall be initialed by the person or persons signing the Tender.
- 14.3 The Tender shall contain no alterations or additions, except those to comply with instructions issued by the Owner, or as necessary to correct errors made by the

Tenderer, in which case such corrections shall be initiated by the person or persons signing the Tender. **ANY CONDITIONAL TENDER WILL BE SUMMARILY REJECTED.**

## **15.0 Sealing and marking and submission of Tenders**

The Tenderers are requested to quote their offers in two separate sealed envelopes:

- 1<sup>st</sup> Envelope ( Technical Bid) :** Comprising of Earnest Money Deposit as per clause No. 8 of Instructions to Tenderers. Etc. with all tender document duly sealed and signed
- 2<sup>nd</sup> Envelope (Price bid) :** Priced BOQ document duly signed and sealed. Please refer “Clause No. 12 of Preparation of tender documents in Instructions to Tenderers”.

**These two envelopes are to be placed in a single envelope and shall be duly sealed indicating the name of work i.e. TENDER FOR EXTENSION/RENOVATION OF CANTEEN BUILDING AT ARCI, BALAPUR, HYDERABAD and deposited in the tender box kept at the ARCI security office at main gate, RCI Road, opp Balapur ,Hyderabad-500005 ON OR BEFORE DUE DATE AND TIME OF SUBMISSION OF TENDER .In case of any queries, please contact at Phone no: 040-24452376 or 24452319.**

- 15.1 In addition to the identification required in Clause 12 the inner envelopes shall indicate the name and address of the Tenderer to enable for the Tender to be returned unopened in case it is declared late, pursuant to Clause 14.0
- 15.2 If the outer envelope is not sealed and marked as above, the Owner will assume no responsibility for the misplacement or premature opening of the Tender.

## **16.0 Last date for submission of Tenders**

- 16.1 Any Tender received by the Owner after the date and time of submission of Tenders i.e. up to **15.00 Hrs On 29th Jan 2018** will be rejected and returned unopened to the Tenderer.

## **17.0 Clarification of Tenders**

To assist in the examination, evaluation, and comparison of Tenders, the Owner may, at his discretion, ask any Tenderer for clarification of his Tender, including breakdowns of unit rates. The request for clarification and the response shall be in writing or by fax, but no change in the price or substance of the Tender shall be sought, offered, or permitted.

## **18.0 Examination of Tenders and Determination of Responsiveness**

- 18.1 Prior to the detailed evaluation of Tenders, the Owner will determine whether each Tender (a) meets the eligibility criteria defined in clause 3.0; (b) has been properly signed and meets the requirements as in clause 3.2; (c) is accompanied by the required securities and; (d) is substantially responsive to the requirements of the Tendering documents.
- 18.2 A substantially responsive Tender is one which conforms to all the terms, conditions, and specifications of the Tendering documents, without material

deviation or reservation. A material deviation or reservation is one (a) which affects in any substantial way the scope, quality, or performance of the Works (b) which limits in any substantial way, the Owner rights or the Tenderers' obligations under the contract; or (c) whose rectification would affect unfairly the competitive position of other Tenderers presenting substantially responsive Tenders.

18.3 If a Tender is not substantially responsive, it will be rejected by the Owner, and may not subsequently be made responsive by correction or withdrawal of the nonconforming deviation or reservation.

### **19.0 Correction of Errors**

19.1 Errors in the Schedule of Quantities shall be dealt with in the following manner:

- i In the event of a discrepancy between the rates quoted in words and the rates in figures, rate quoted in words shall be deemed to be correct.
- ii In the event of an error occurring on account of arithmetical calculations the same shall be corrected according to rates written in words and quantities in B.O.Q.
- iii All the errors in totaling in the amount column and in carrying forward the totals shall be corrected. The tender total shall be accordingly amended.

### **20.0 Evaluation and Comparison of Tenders**

20.1 The Owner will evaluate and compare only the Tenders determined to be prequalified and substantially responsive.

20.2 In evaluating the Tenders, the Owner will determine for each Tender the evaluated Tender Price by adjusting the Tender Price as follows:

- (a) Making any correction for errors; or
- (b) Making an appropriate adjustments for any other acceptable variations, deviations; and
- (c) Making appropriate adjustments to reflect discounts offered.

21.0 The price bid of unqualified contractors contained in envelope B and EMD contained in envelope A will be returned to them.

**22.0 The Owner reserves the right to accept or reject any variation, deviation, or alternative offer and other factors which are in excess of the requirement of the Tendering.**

### **23.0 Award criteria**

23.1 The acceptance of Tender will rest with the Owner, which does not bind itself to accept the lowest tender and reserves to itself the authority to reject completely / partially, any or all of the Tender/s received without the assignment of a reason.

23.2 The owner reserves to itself the right of accepting the whole or any part of the Tender and the Tenderer shall be bound to perform the same at the rate quoted.

23.3 The Owner reserves to itself the right of omission of any item of work from the awarded tender at any time / stage during the execution of work and award the same to another agency / contractor.

#### **24.0 Notification of award**

The successful Tenderer will be issued a Letter of Intent (LOI) / Purchase Order (PO) and the date of commencement of work shall be 10 days from date of the LOI or PO.

#### **25.0 Performance Guarantee.**

The successful tenderer shall submit the performance guarantee for an amount equal to 5% of approved tender amount in the form of Bank guarantee from nationalized bank within 15 days from issue of LOI. Bank guarantee is to be valid for a period up to the actual date of completion. This amount will be refunded soon after recording completion certificate.

Failure of the successful tender to make payment of performance guarantee shall constitute sufficient ground for the annulment of the award and forfeiture of EMD

#### **26.0 Security Deposit (SD)**

A sum equal to 5% of the gross amount of the bill shall be deducted from each bill including final bill. Half of this amount will be released along with final bill on submission of bank guarantee from nationalized bank valid for a period up to defect liability period plus 2 months. Remaining half will be released after successful completion of the defect liability period. The contractor is eligible for refund of full security deposit if the defects in workmanship and quality of work are attended by the contractor. Failing which the cost of rectification of defects shall be recovered from security deposit. The contractor shall obtain no defects certificate from concerned ARCI staff before claiming the refund.

#### **27.0 Signing of contract form**

27.1 On the acceptance of LOI / Purchase Order and Security Deposit of the successful Tenderer, the Owner will send the Tenderer the contract form provided in the Tender document duly signed and sent along with the Tender incorporating all agreements between the parties.

#### **28.0 During Execution**

The Contractor shall carry out all the works strictly in accordance with the drawing, details and instructions of the Consultants/Owner. If in the opinion of the Consultants, changes have to be made in the design, and they desire the contractor to carry out the same, the Contractor shall be bound to comply. The Consultants/Owner decisions in such cases shall be final.

28.1 The Contractor is bound to carry out any items of work necessary for the completion of the job even though such items are not included in the schedule of quantities and rates. Schedule of instructions in respect of such additional items and their quantities will be issued in writing by the Consultants with the prior consent from the Owner. Rates for such items of work will be recommended by the Consultants/Owner for approval by the Owner on the basis of Analysis of Rates which will be derived from **actual prevailing market rates of similar item along with 15% as contractor's profit & overhead**. The rates approved by the Owner in such cases will be final.

- 28.2 The Consultants/ Owner may at any time / stage of execution demand for the Analysis of Rates for any item / items of work which in their opinion is / are abnormally high / low rates or required for the Analysis of Rates of / other tender / extra item / items. The Contractor is bound to present the same and if the Contractor is unable to present a justified Analysis of Rates for any item / items, the rate / rates for such item may be adjusted accordingly and the decision of the Owner in such cases shall be final.
- 28.3 The Contractor shall get the quality of work done inspected for material and workmanship at different stages of execution as per instructions given by the Consultants/ Owner or their representative time to time. Any item of work done which is found not conforming to the Contract shall be rejected by the Consultants/Owner. The decision of the Consultants/ Owner in such cases shall be final.
- 28.4 The Consultants/ Owner may instruct at any stage of execution for testing of samples of any material taken at random. The Consultants/Owner will decide the testing laboratory / agency and the cost of testing including the expenses for sending the samples to the laboratory / agency and receipt of test reports shall be borne by the Contractor. The material shall be rejected in case the test reports are not within the permissible limits. In case material is found to be of sub-standard quality, the same shall be rejected by the Consultants/Owner. The decision of the Consultants/ Owner in such cases shall be final.
- 28.5 The Contractor shall not be entitled to any compensation suffered by him on account of delays in commencing or executing the work whatever the cause of delay may be, including delays arising out of modifications to the work entrusted to him or in any subcontracts connected therewith or delays in awarding contracts for other trades of the project or in commencement or completion of such other works or in procuring Government controlled or other building materials for any other reasons whatsoever. The Owner shall not be liable for any sum besides the tender amount, subject to such variations as are provided for herein and as instructed by Consultants/ Owner. However, necessary time extension will be given if the delays are not attributed to the Contractor.

**ARTICLES OF AGREEMENT**

Made at .....this ..... day of.....  
2018...

Between

.....  
.....  
(hereinafter referred to as the Owner which expression shall include its heirs, Executors,  
Administrators & Assignees) of the one part and

.....  
..... (Hereinafter referred to as the Contractor which expression shall include his  
heirs, Executors, Administrators & Assignees) of the other part

WHEREAS the Owner is desirous of carrying out Extension/Renovation of Canteen Building AT ARCI, BALAPUR, HYDERABAD, and has prepared drawings and specifications describing the work to be WHEREAS the said drawings and the specifications and the priced Schedule of quantities have been signed by or on behalf of the parties hereto and WHEREAS the Contractor has agreed to execute upto and subject to the conditions set forth herein (hereinafter referred to as “the work shown upon the said Drawings” and described in “the said Specifications” and the said “Priced Schedule of Quantities at the respective Rates mentioned in the Priced Schedule/ Purchase Order of Quantities attached.

And WHEREAS the Contractor has agreed to the submit the performance guarantee to ARCI for Rs. .... (Rupees.....Only)  
by him as performance guarantee for the due fulfillment of the contract to the satisfaction of the owner (ARCI)

**NOW IT IS HEREBY AGREED AS FOLLOWS:**

- (1) In consideration of the payments to be made to the Contractor as hereinafter provided he shall upon and subject to the conditions of contract execute and complete the works shown upon the said drawings and such further detailed drawings as may be furnished to him by the said Owner and described in the Specifications and the said Priced Schedule of Quantities.
- (2) The Owner shall pay the Contractor such sums as shall become due and payable hereunder at the times and in the manner specified in the said conditions.
- (3) The tender drawings, agreement, documents and terms and conditions of NIT above mentioned shall form the basis of this Contract and the decision of the owner for the time being as mentioned in the Conditions of the Contract in reference to all matters of dispute as to the material, workmanship or account and as to the intended interpretation of the clauses of this agreement or any other document attached hereto shall be final and binding on both parties.
- (4) The Owner through the Consultants reserves the right of altering the drawing and nature of work and of adding to or omitting any items of work and of having portions of the same carried out departmentally or otherwise and such alterations or variations shall be carried out without prejudice of this contract.
- (5) The said Contract comprises the work above mentioned and all subsidiary works connected there to within the same site as may be ordered to be done from time to

time by the said Consultants/Owner for the time being even though such works may not be shown on the drawings or described in the said specifications or the Priced Schedule of Quantities.

- (6) Time shall be considered as essence of the agreement and the contractor hereby agrees to commence to work as soon as his tender is accepted by ARCI and the site is handed over to him as provided in the said conditions and agrees to complete the work within the period 4 months from the date of such handing over of the site.
- (7) The said conditions shall be read and construed to be forming part of this agreement and the Parties hereto will respectively abide by and submit themselves to the conditions and stipulations and perform the agreement on their parts respectively in such conditions contained.
- (8) All disputes arising out of or in any way connected with this agreement shall be deemed to have arisen in Hyderabad and only the courts in Hyderabad alone shall have jurisdiction to determine the same.
- (9) The arbitrator for fulfilling the duties set forth in the arbitration clauses as defined with tender conditions of contract.
- (10) Arbitration: The Contract shall be governed by, and construed in accordance with the laws of India. Any dispute which cannot be amicably settled by the parties may be submitted, by the owners, to the International Center for Alternate Dispute Resolution (ICADR), Hyderabad. The dispute will be settled following the provisions of Arbitration and Conciliation Act, 1996. Both Parties agree that the results and awards of any such arbitration shall be binding on both Parties. Venue of Arbitration shall be Hyderabad.
- (11) The several parts of this contract have been read to us and fully understood by us.

As witness our hands this.....day  
of.....2018.....

.....  
Signed by the said Owner

.....  
in the presence of

.....  
Signed by the said Contractor

.....  
In the presence of

#### **IV. FORM OF TENDER**

(To be submitted by the Tenderer in letter head).

From :

To

**International Advanced Research Centre for Powder Metallurgy  
and New Materials (ARCI)**

Balapur P.O. , Hyderabad-500005

Dear Sir,

- 1.0 Having examined the Tender documents consisting of the Tender notice, General Instructions to Tenderers, General Conditions of Contract, Special Conditions of Contract, specifications, plans, Drawings, Time Schedules, Form of Contract , form of tender, form of schedule Rates, Bill of Material etc., and having understood the provisions of the said tender documents and also having thoroughly studied the requirements of International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI), related to the work tendered for in connection with the Civil, Plumbing, & including renovation works for various buildings at ARCI, RCI Road, Opp Balapur, Hyderabad and having conducted a thorough study of the job site involved, the site conditions, power, water, material and equipment availability, the transport and communication facility and the availability and suitability of borrow areas etc., we hereby submit our tender offer for the performance of proposed work in accordance with the terms and conditions and within the time mentioned in the tender documents at the rates included within the tender documents and based on application of the rates tendered in the accompanying schedule of rates to the relative quantities indicated in the form of schedule rates forming part of the tender documents.
- 2.0 If the work or any part thereof is awarded to me/us, I/we undertake to perform the work in accordance with the contract documents as defined in the form of contract forming part of the tender documents and accept the terms and conditions of contract as laid down therein and undertake that on receipt of acceptance of tender and on confirmation. I/We will deposit such sums as may be necessary under the terms of contract and abide by the terms of the tender. I/We will also sign the necessary contract and other documents to commence the work and execute the work as per the terms and conditions contained in the tender documents failing which International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI) shall be at liberty, without further reference to me/us and without prejudice to any of its rights to terminate the contract and or to forfeit the earnest money deposit and take further course of action.

- 3.0 I/We further undertake to keep our tender offer open for a period of not less than 90 days from the scheduled date of opening of tenders as specified in the General Instructions to tenderer forming part of the tender documents. `
- 4.0 I/We hereby undertake that the statements made herein/information above are true in all respects and that in the event of any such statement or information being found to be incorrect in particular, the same may be construed to be a misrepresentation entitling International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI) to avoid any resultant contract and take further action as may be justified.

I/We confirm having deposited EMD of Rs \_\_\_\_\_ in the form of \_\_\_\_\_

Yours faithfully,

Signature of the tenderer

Name and designation of the  
Authorized person signaling the  
Tender on behalf of the Tenderer.

Name:

Designation.

Address.

Witness :

## **L CONDITIONS OF CONTRACT (GCC)**

### **A: GENERAL**

#### **1.0 Definitions**

1.1 In this contract, the following terms shall be interpreted as indicated:

- (a) “The Contract” means the agreement entered into between the Owner and the Contractor, as recorded in the contract form signed by the parties, including all the attachments and appendices thereto and all documents incorporated by reference therein.
- (b) “The Contract Value” means the amount payable to the Contractor under the contract for the full and proper performance of its contractual obligations.
- (c) “Contract Data” means any information provided in the Tender document and agreed to by the Contractor.
- (d) “The Work” means all labour, materials, tools and plant, equipment including government taxes and transport, that may be required in preparation of and for and in the full and entire execution and completion of “the Work”.
- (e) “Services” means services ancillary to the execution of the work such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training and other obligations of the Contractor covered under the contract.
- (f) “GCC” means the General Conditions of Contract contained in this section.
- (g) “SCC” means the Special Conditions of Contract.
- (h) “The Owner” means the organization getting the work done, and or its representative
- (i) “The Consultants” means the Consultants appointed by the Owner for preparing all the drawings, details and specifications of items required for the execution of the work and supervise and monitor the execution at site along with checking and verifying Contractor’s bill.
- (j) “The Contractor” means the individual or the firm executing the work.
- (k) “The Project Site” where applicable, means the place or places named in SCC.
- (l) “Day” means calendar day.

**2.0** The Contractor shall offer the Engineer or any representative of Consultants/Owner every facility and assistance for examining the works and materials. The Engineer or any representative of the Consultants shall have power to give notice to the Contractor or to his staff, of non-approval of any work or materials and such work shall be suspended or the use of such materials shall be discontinued until the decision of the Consultants. Such examinations shall not in any way exonerate the contractor from the obligations to remedy any defects which may be found to exist at any stage of the work or after the same is completed.

#### **3.0 Interpretation and Application**

3.1 These general conditions shall apply to the extent that provisions in other parts of the contract do not supersede them.

3.2 In interpreting these Conditions of Contract, singular also means plural, male also means female or neuter, and the other way around. Headings have no significance. Words have their normal meaning under the language of the Contract unless specifically defined. The Owner will provide instructions clarifying queries about the Conditions of Contract.

- 3.3 If sectional completion is specified in the Contract Data, references in the Conditions of Contract to the Works, the Completion Date, and the Intended completion date are for the whole of the Works.

#### **4.0 Standards**

- 4.1 The works executed by the Contractor should be carried out in most professional manner, both as regards material and otherwise, in every respect, in strict accordance with the Technical Specifications. All materials and workmanship shall so far as procurable be of the respective kinds described in the priced schedule of quantities and/ or specifications and in accordance with the Consultants/Owner' instructions, and the Contractor shall upon the request of the Consultants/Owner, furnish them with all invoices, accounts; receipts and other vouchers to prove that the material procured complies therewith. When no applicable standard is mentioned, the work shall be carried out as per the directions of the Consultants/Owner. The Contractor shall at his own cost arrange for and / or carry out any test of materials which the Consultants/Owner may require. In case of discrepancies in tender wording as regards the specifications of materials workmanship etc., written instructions will supersede the tender wording unless otherwise mentioned.
- 4.2 The Consultants/Owner in their absolute discretion from time to time shall issue further drawings and/ or written instructions, details, directions and explanations which are hereafter collectively referred to as "the Consultants/Owner's instructions" in regard to: -
- a. The variation or modification of the design quality or quantity of works or the addition or omission or submission on any work.
  - b. Any discrepancy in the drawings or between the schedule of quantities and / or drawings and /or specifications/ dimensions etc.
  - c. The removal and / or re-execution of any works executed by the Contractor.
  - d. The removal from the site of any materials brought thereon by the Contractor and the substitution of any other materials therefore / or rejection of the material brought on site.

#### **5.0 Use of Contract Documents and Information**

- 5.1 The Contractor shall not, without the Owners' prior written consent, disclose the contract or any provision thereof, or any specifications, plan, drawing, pattern, sample or information furnished by or on behalf of the Owner in connection therewith, to any person other than a person employed by the Contractor in performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far, as may be necessary for purposes of such performance.
- 5.2 The Contractor shall not, without the Owner's prior written consent make use of any document or information enumerated in Para 5.1 except for the purposes of performing the contract.
- 5.3 All documents included but not limited to contract agreement shall remain the property of the Owner and shall be returned (in all copies) to the Owner on completion of the Contractor's performance under the contract, if so required by the Owner.

#### **6.0 Consultant's Decisions( if applicable)**

- 6.1 Except where otherwise specifically stated, the Consultants will decide contractual matters between the Owner and the Contractor, in the role of representing the Owner.

#### **7.0 Performance Guarantee**

- 7.1 Within 15 days from the date of LOI of the contract, the Contractor shall furnish performance guarantee in the form of a bank guarantee to the Owner, of the amount specified in the Special Conditions of Contract.
- 7.2 The proceeds of the performance guarantee shall be payable to the Owner as compensation for any loss or dues resulting from the Contractor's failure to complete its obligations under the contract.
- 7.3 The performance guarantee shall be in the form of bank guarantee from nationalized bank
- 7.4 The performance guarantee shall be discharged by the Owner and returned to the Contractor on completion of the work and recording of the completion certificate.

## **8.0 Programme and Reporting**

- 8.1 The contractor shall furnish to the Owner and Consultants/Owner a bar chart laying down weekly financial and physical targets to complete the project within stipulated time for approval within fifteen days from the date of receipt of notification of award. Weekly progress report shall be furnished to the Owner and Consultants confirming the progress.

## **9.0 Assignment and Sub-contracting**

- 9.1 The whole of the works included in the Contract shall be executed by the contractor and the contractor shall not directly or indirectly transfer, assign or underlet the contract or any part, share or interest therein without the written consent of the Owner.
- 9.2 No sub-contracting shall relieve the Contractor from the full and entire responsibility of the Contract or from the active superintendence of the work during their progress. The contractor has to engage specialized agencies depending upon the nature and complexity of the work with the prior approval of the Owner for works **and any other specialized works. To this regard, the contractor has to submit the completion certificates / required documents of similar type of works executed by the sub-contractor / specialized agencies to establish the sub-contractor's / specialized agencies' workmanship. Also the contractor has to submit shop drawings done by the specialized agency for approval of Owner before procuring and installing the item. This does not in any way relieve the contractor of his obligations to get the quality work and architectural design as desired by the Owner / Consultants.**

## **10.0 Site order Book:**

The contractor shall maintain a site order book at site for the purpose of quick communication between the contractor, consultant and owner. Any communication relating to the work may be conveyed through site order book. Such a communication from one party to other shall be deemed to have been adequately served in terms of contract. Each site order book shall have machine numbered pages in triplicate, and shall be carefully maintained and preserved by the contractor, and shall be made available to the owner/consultant as and when demanded. Any instructions which the Owner/ Consultants may like to issue to the contractor or the contractor may like to bring to the owner/Consultant two copies of such instructions shall be taken from the site order book and will be handed over to the Owner and consultants and the third copy will be retained with contractor.

## **11.0 Contractor to provide everything necessary for proper execution of work**

- 11.1 The Contractor shall provide everything necessary for the proper execution of the works according to the intent and meaning of the drawings, priced schedule of

- quantities and specifications taken together whether the same may or may not be particularly shown or described therein provided that the same can reasonably be inferred there from. If the Contractor finds any discrepancy therein he shall immediately and in writing refer the same to the Consultants/Owner whose decision shall be final and binding. Further, if any sample(s) of material(s), fittings, fixtures or finished item(s), to be used in the construction work, has/have been called for from the contractor, no work related to it/these shall be executed unless the same has/ have been approved by the Consultants/Owner failing which no payment shall be made to the contractor on this account. Any sample, duly approved by the Owner shall become part of the supply to be used in “the works”.
- 11.2 The Contractor shall supply fix and maintain at his cost, during the execution of any works, all the necessary power supply, water supply, centering, scaffolding, watching and lighting by night as well as by day, required not only for the proper execution but also for protection of the public and the safety of any adjacent roads, streets, pavements, walls houses, building and other erections, matters or things. The Contractor shall provide all such centering, scaffolding, staging, planking, timbering, strutting, shoring pumping, fencing, hoarding, watching and lighting by night as well as by day, required not only for the proper execution but also for protection of the public and the safety of any adjacent roads, streets, pavements, walls houses, building and other erections matters or things.
- 11.3 Throughout the execution of the work, the Contractor or his representative duly authorised and fully responsible and technically conversant with the work under this agreement, acting on his behalf shall be available at the site for supervising the work. The Contractor shall make adequate arrangements for watchmen to guard the materials brought by them to the site and shall ensure the safety, breakage and any theft of materials fixed or unfixed by him. Any material, T & P brought to the site for bonafide use of the Project shall not be removed/ shifted from the site without the prior written permission of the owner
- 11.4 The contractor has to provide at his cost leveling pipe, steel/ metallic tapes etc. required by the supervising staff of the Owner’s/Consultants/owner representative during execution of the work.
- 11.5 Whenever required by the Consultants the Contractor shall provide shop drawings / details before execution of work and get them approved by the Consultants/ Owner
- 11.6 Wherever the specifications of any item indicate the usage of approved equivalent of any material, the Contractor shall get the sample of the equivalent material approved from the Consultants / Owner before execution. The approval of the equivalent material is entirely at the discretion of the owner.
- 12.0 Infrastructure:**
- 12.1 For storage of materials, contractor has to provide at his own cost sufficient fenced and covered appropriate area on site for storage of above materials with lock and key arrangement. For arranging meetings suitable sized table and chairs shall be provided by Contractor.
- 12.2 Contractor to provide required quantity of portable water for his workers and staff.
- 13.0 Site Establishment**
- The contractor shall provide all stores, workmen and materials. All materials likely to deteriorate in the open shall be stored under suitable cover.
- 13.1 The contractor shall not be allowed to construct huts for accommodation of his employee or workmen, within the site area. The contractors employees or workmen will not be allowed to stay overnight at the site area.

- 13.2 The security of the contractor's equipment and materials is his own responsibility. The Owner accepts no liability for loss or damage to the contractor's plant tools or materials.
- 13.3 The materials issued to the contractor by the Owner will remain under the custody of contractor as a trustee. However, title on the same will remain with the Owner. The contractor will be responsible for loss or damage to such materials and shall preserve them in good working conditions as required for the contract and good construction practices till such time that they are incorporated in the works and erected, aligned and fully installed in position and handed over to the Owner. In case the Owner/Consultants feels that arrangements made by the contractor are not adequate he shall so advise the contractor and the contractor shall promptly take corrective action. In case the contractor fails to take corrective action, Consultants shall take such corrective actions and recover the cost thereof from the contractor's bills. Accounts of such material on completion of work shall be rendered and surplus material returned to the Owner as per instructions of Owner/Consultants.
- 13.4 The contractor shall clear away periodically or as instructed by Owner/Consultants any rubbish, scrap materials, etc. and dump the same in the authorised dump sites notified by local authority or area indicated by the Owner/Consultants. All construction materials shall be neatly stacked in an orderly manner as directed by the Owner/Consultants and care shall be taken to allow proper access to workmen and easy movement of men, vehicles, cranes and materials.
- 13.5 The contractor shall maintain all the drawings carefully mounted on the board of appropriate size and well protected from the ravages of weather, termites and other insects.
- 13.6 The contractor shall not permit the entry to the site of any person not directly connected/concerned with the work without first having obtained the written permission of Owner/Consultants.
- 13.7 The contractor shall submit a list of plants, equipments, tools, tackles, etc. which he will use, to perform the work. These tools, etc. shall not be removed from the site till the completion of job. A gate pass must be obtained from the Owner's representative in order to remove from site any plant equipment, tools and materials.
- 13.8 All items such as instructions and other pertinent data regarding erection/commissioning and maintenance should be typed and classified for transmittal in a manner approved by the Owner/Consultants.
- 13.9 All employees of the contractor shall conform to rules of conduct, etc. established by failure to do so will be sufficient cause for removal of such person from the site.

#### **14.0 Messing & Accommodation**

- 14.1 The contractor will make his own arrangements for messing and accommodation and the same shall not be done at site. No accommodation and messing shall be provided by the Owner.

#### **15.0 Procurement, Consumption and Storage of Materials**

- 15.1 The contractor shall at his own expenses, provide all materials including cement & steel required for the works. Adequate stocks of all materials required for the work are to be maintained at site. No material (unless as provided elsewhere in this document) shall be supplied by the Owner.
- 15.2 All materials to be provided by the contractor shall be in conformity with the detailed specifications laid down in the contract and the contractor shall, if requested by the Owner/Consultants furnish prior to the satisfaction of the Owner/Consultants that the materials conform to the laid down specifications.

- 15.3 All materials required for execution of work must be got approved by the site representative of the Owner/ Consultants before they are actually put to use. All facilities for prior inspection of materials and subsequent inspection of work by the Site representative must be made available.
- 15.4 The contractor shall, at his own expenses and without delay, supply to the Owner/Consultants samples of materials proposed to be used in the work. The Owner/Consultants shall within seven days of supply of samples, or within such further period as Owner/Consultants may require and intimate the contractor in writing, whether samples are approved by Owner/Consultants, or not. If samples are not approved, the contractor shall forth with arrange to supply, for their approval, fresh samples complying with the specification laid down in the contract.
- 15.5 The Owner/Consultants shall have full power to require removal of any or all the materials brought to site by the contractor which are not in accordance with the contract specifications or do not conform in character or quality to the samples approved Owner/Consultants. In case of default on the part of the contractor in removing rejected materials, the Owner/Consultants shall be at liberty to have them removed by other means. The Owner/Consultants shall have full powers to direct other proper materials to be substituted for rejected materials and in the event of the contractor refusing to comply. Owner/Consultants may cause the same to be supplied by other means. All risks and costs which may attend upon such removal and/or substitution shall be borne by the contractor.
- 15.6 Contractor shall be responsible for procurement of all materials/equipments etc. No delay due to non availability of any material equipment will be entertained by Owner.

#### **16.0 Method of storing the materials**

- 16.1 The contractor shall at his own cost, provide for all necessary storage on the site in specified areas for all materials such as steel, cement and such other materials which are likely to deteriorate by the action of sun, wind, rain, dampness or other natural causes due to exposure in the compounds or in stores in such a manner that all materials, tool etc. shall be duly protected form damage by weather or any other cause.
- 16.2 Materials required for the works, by the contractor be stored by the contractor only at places approved by the Owner/Consultants. Storage and safe custody of materials shall be the responsibility of the contractor.  
All the materials including contractor's Tools & Plants brought by the contractor to the site shall become and remain the property of the Owner and shall not be removed off the site without prior written approval of the Consultants/Owner. But whenever the works are finally completed and advances, if any, in respect of such materials are fully recovered, the contractor shall at his own expenses forthwith remove from the site all surplus materials supplied by him and upon such removal, the same shall revert in and become the property of the contractor.

#### **17.0 Shuttering and Scaffolding Materials**

- 17.1 It shall be desirable to have adequate amount of shuttering and scaffolding materials to complete the work speedily and Consultants/Owner decision so as to the quantum of these desirable/ resources of the site shall be final and binding.

#### **18.0 Completion of Work**

- 18.1 Before finally leaving site, all the Contractors stores, plant, tools and rubbish shall be removed and the site left clean and tidy. The space allocated by Owner shall be vacated and handed over to the Owner.

## **19.0 Water and Electricity for Construction work**

In ARCI Scope ( Free of cost)

## **20.0 Employment of Labour**

- 20.1 The contractor shall comply with the requirement of statutory provisions and shall be solely responsible for fulfillment of all legal obligations under Contract Labour (reg. & abolition) Act, Inter State Migrant Workmen (Registration of Employment and condition of Service Act, payment of Wages Act., Minimum Wages Act, Workmen's Compensation act, Employee's Provident Fund & Miscellaneous Provisions Act, Payment of Bonus Act, Payment of Gratuity Act, Industrial Disputes Act and all other Industrial/Labour enactments and Rules made there under as applicable from time to time. In case Owner incurs any liability towards payment of any dues, compensation, cost of any other liability of any kind whatsoever, due to non fulfillment of statutory provisions under any industrial/labour laws by the contractor, the same shall be made good by the contractor and Owner shall have full right to recover and claim the same against the contractor from his outstanding bills or otherwise. No Labour to stay at site.
- 20.2 The contractor will be expected to employ on the work only his regular skilled employees with experience of this particular work. The permission of the Owner/Consultants must be obtained before tradesmen are recruited locally for the work. This rule does not apply to unskilled labour. No female labour shall be employed in dark hours/ i.e. hours prohibited under the applicable law. No person below the age of eighteen years shall be employed at any point of time. The contractor shall pay, to each person, the wages as per minimum Wages Act of the State Government.
- 20.3 All traveling expenses including provision of all necessary transport to and from site, lodging allowances and other payments to the contractor's employees are his own responsibility.  
The hours of work on the site shall be decided by the Owner/Consultants and contractor shall adhere to the same.  
All contractors employees shall wear safety helmet and such identifications marks as may be provided by contractor on work site and duly approved by Consultants/Owner.  
All notices displayed on the site and any instructions issued by the Owner/Consultants shall be strictly adhered to by the Contractor's and/or his sub-contractors employees.  
The contractor shall be required to maintain employment records as covered in relevant Acts and produce documentary evidence to the effect that he has discharged his obligations under the Employees Provident Fund Act 1952, and ESI Act, 1948, if applicable, Group Insurance and other Acts for the workmen working at site towards safety, statutory regulations and insurance aspects.

## **21.0 Working and Safety Regulations**

- 21.1 The contractor shall observe all statutory, safety, and legal requirements / regulations issued by Central and State Governments applicable to the work as well as any local regulations applicable to the site.
- 21.2 The contractor has to fulfill the safety obligations at site and ensure that all safety equipment required for the execution of the work is available and used by the workmen at site.

- 21.3 Required safety signage and other requirement as per safety norms must be compiled as per the instructions of the Owner/Consultant.
- 21.4 A qualified person in charge of safety should be posted at the site by the contractor to take care of the only safety related issues during the construction period with regard to workmen and material. Failure to employ the safety person will invite suitable deductions from the bills.
- 21.5 The contractor shall be responsible for the provision of all safety notices safety equipments including the safety gadgets for his workmen required by both the relevant legislation and such as the Owner/Consultants may deem necessary. While working at heights, safety belts and safety helmets shall necessarily be used.
- 22.0 Particular attention is drawn to the following:**  
In case of accident, the Owner/Consultants shall be informed in writing forthwith and First-Aid, Hospitalization shall be provided by the Contractor. The contractor shall strictly follow regulations laid down by Govt. and State authorities in this regard and all cases are to be defended By the Contractor. The Owner shall not entertain any insurance claims.
- 22.1 Contractor shall fence his plant, platforms, excavations etc.
- 22.2 Compliance with all electricity regulations should be ensured.
- 22.3 Compliance with statutory requirements for inspection and test of all lifting appliances and auxiliary lifting gear is to be ensured.
- 22.4 Staircase, doors or gangways shall not be obstructed in any way that will interfere with means of access of escape.
- 22.5 Where it is necessary to provide and/or store petroleum products or petroleum mixtures and explosive, the contractor shall be responsible for carrying out such provision and/or storage in accordance with the rules and regulation laid down in Petroleum Act 1934. Explosive Act 1948 and Petroleum and Carbide of Calcium Manual Published by the Chief Inspector of Explosive of India. All such storage shall have prior approvals of the Owner/Consultants. In case any approval or clearance from Chief Inspector of Explosive or any statutory authorities is required, the contractor shall be responsible for obtaining the same.
- 22.6 The contractor shall have his own Fire Fighting Extinguishers and Equipment.
- 23.0 Contractor's Risks**
- 23.1 Contractor's Risks- All risks of loss or damage to physical property and of personal injury and death which arise during and in consequence of the performance of the Contract are the responsibility of the Contractor.
- 23.2 The Contractor shall be responsible for injury to persons if any, animals or things and for all damages to the structural and/or decorative part of property which may arise from the operations or neglect of himself or of any sub-contractor or of any of his or sub- Contractor's employees whether such injury or damage arises from carelessness accident or any other causes whatsoever in any way connected with the carrying out to the Contract. This clause shall be held to include interalia any damage to buildings, whether immediately adjacent or otherwise and any damage to roads, footpaths, or ways as well as all damage caused to the buildings and the work forming the subject to this Contract by frost, rain or other inclemency of the weather. The Contractor shall indemnify the Owner and hold him harmless in respect of all and any expenses arising from any such injury or damage to persons or property as aforesaid and also in respect of any claim made in respect of injury or damage under any acts of Government or otherwise and also in respect of an award of compensation or damages consequent upon such claim.

The contractor shall make good all damages of every sort mentioned in the Clause, as to deliver up the whole of the Contract works complete and perfect in every respect and so as to make good or otherwise satisfy all claims for damage to the property of third parties.

## **24.0 Insurance**

- 24.1 The Contractor shall provide, in the joint names of the Owner and the Contractor, Insurance cover from the Start Date to the completion of work and handing over to the owner for the amounts and deductibles stated in the Contracted Amount for the following events which are due to the Contractor's risks and shall be covered under respective policies as under:
- (a) Contractor's All Risk Policy;
  - (b) Third Party Insurance for four occurrences, the minimum cover for occurrence is Rs. 5.0 lac. Contractor will pay additional premium after each occurrence to make insurance valid for four occurrences always.
- 24.2 The contractor shall provide workmen compensation policy, obtained in his name.
- 24.3 Policies and certificates for insurance shall be delivered by the Contractor to the Owner /Consultants for the Owner/ Consultants' approval before the Date of Start of work i.e., date of execution of the contract. All such insurance shall provide for compensation to be payable in the types and proportions of currencies required to rectify the loss or damage incurred.
- 24.4 If the Contractor does not provide any of the policies and certificates required, the Owner may affect the insurance which the Contractor should have provided and recover the premiums the Owner has paid, from the contractor bills. Otherwise due to the Contractor or if no payment is due, the payment of the premiums shall be a debt due. The cost of premium will be deducted from the contractor's bill, if at any time the work remains uninsured.
- 24.5 Alterations to the terms of the insurance shall not be made without the approval of the Owner or Consultants.
- 24.6 Both parties shall comply with the conditions in the insurance policy.
- 24.7 All policies in original shall be submitted to the owner before the release of the 1<sup>st</sup> bill.

## **25.0 Setting out Works**

- 25.1 The contractor shall set out the works and shall be responsible for the true and perfect setting out of the same and for the correctness of the positions, levels, dimensions and alignment of all parts thereof, if at any time any error shall appear during the progress of any part of works the contractor shall at his own expenses rectify such error, if called upon to the satisfaction of the Consultants/Owner.

## **26.0 Contractor to remove all offensive matter, non-suitable material etc immediately.**

All debris, excavated soil, filth or other matter or an offensive nature taken out of any trench, sewer, drain cesspool or other place shall not be deposited on the surface but shall be at once carted away by the contractor out the premises/ site under intimation to concerned authorities. Any material brought on site if found unsuitable / surplus shall be removed from site at once by the Contractor under intimation to the concerned authorities.

## **27.0 Inspections by Consultants/Owner**

- 27.1 The representative of the Consultants/Owner at all times have free access to the works and /or to the workshops, factories or other places where materials are being prepared or constructed for the Contract and also to any place where materials are lying or from which they are being obtained. No person except the representatives of Public authorities shall be allowed on the work at any time without the written permission of the owner /Consultants. If any work is to be done at a place other than the site of the works, the Contractor shall obtain written permission of the Consultants/owner for doing so.
- 27.2 The Consultants/owner and their representatives shall have the right to test and/ or inspect the works to confirm their conformity to the contract, at all times, whenever in progress either on the site on the Contractor's premises wherever situated or any firm or company where work in connection with this contract may be in hand. All records, registers or documents relating to the works including materials used on works shall be kept open to the inspection of the Owner or his Authorised representative when so called for in writing.
- 27.3 The Contractor shall get the quality of work done inspected for material and workmanship at different stages of execution as per instructions given by the Consultants or their representative from time to time. Any item of work done which is found not conforming to the Contract shall be rejected by the owner. The decision of the owner in such cases shall be final.
- 27.4 The inspections and tests may be conducted on the premises of the Contractor or at the Project site. When carried out on the premises of the Contractor or its sub-Contractor(s), all reasonable facilities and assistance including access to drawings and production data shall be furnished to the inspectors at no charge to the Owner.
- 27.5 Should any inspected items of work fail to conform to the specifications, the Owner/ Consultants shall communicate them and the Contractor shall either replace them or make all alterations necessary to meet specification requirements free of cost to the Owner.
- 28.0 Covering Up/Uncovering of Works**
- 28.1 No part of the works shall be covered up without the approval of Consultants/ owner and the Contractor shall afford full opportunity for examination and inspection by the Consultants owner. The contractor shall give due notice to the Engineer about the work to be covered up for its measurements and examination. The Engineer shall within a reasonable time attend for the purpose of examining such work, unless the Engineer specifically advises the Contractor in writing of his unwillingness not to attend for such examination in which case the Contractor may proceed further with the Contract work.
- 28.2 Should the Consultants/Owner consider it necessary in order to satisfy himself as to the quality of the work, the Contractor shall at anytime during the continuance of the contract pull down or cut into any part of the work and make such opening into and to such an extent through the same, as the Engineer may direct and the Contractor shall make good the whole to the satisfaction of the Engineer, should the work prove to be faulty or in any respect not in accordance with the terms of the contract documents, the Engineer shall be at liberty to order such further removal as he may consider necessary and the whole of the expenses incurred shall be borne by the contractor. If however, the work proves to be sound and in accordance with the contract document, the actual expenses incurred in such examination will be borne by the Owner.
- 28.3 Rates charged by the Contractor for works performed under the contract shall not vary from the rates quoted by the Contractor in its Tender.
- 28.4 If requested by the Consultants/Owner, the Contractor shall provide the Consultants/ Owner with a detailed cost breakdown of any rate in the Schedule of Quantities.

28.5 The Consultants/Owner may at any time / stage of execution demand for the Analysis of Rates for any item / items of work which in their opinion is / are abnormally high / low rates or required for the Analysis of Rates of other tender / extra item / items. The Contractor is bound to present the same and if the Contractor is unable to present a justified Analysis of Rates for any item / items, the rate / rates for such item may be adjusted accordingly and the decision of the Consultants/owner in such cases shall be final.

**29.0 Change in the order/ Extra items of work**

29.1 The Owner may at any time, by written order given to the Contractor, make alterations in, omissions from, additions to, or substitutions for, in drawings, designs or specifications or quantities of the items of work

29.2 ARCI reserves to itself the right of omission of any item of work from the awarded tender at any time / stage during the execution of work and award the same to another agency / contractor.

29.3 The Owner may at any time, by written order given to the Contractor, increase the scope of work or include any new item of work. The Contractor shall be bound to carry out such works, the rates for which shall be arrived at on the basis of the CPWD Schedule of Rates or if the Schedule is silent by standard methods of rate analysis as derived by the Owner/Consultants.

29.4 If any such changes cause an increase or decrease in the cost of, or the time required for the Contractor's performance of any part of the work under the contract, whether changed or not changed by the order, an equitable adjustment shall be made in the contract value or work schedule, or both, and the contract shall accordingly be amended. Any claims by the Contractor for adjustment under this clause must be asserted within seven (7) days from the date of the Contractor's receipt of the Owner's change order.

**30.0 Payment**

30.1 The method and conditions of payment to be made to the Contractor under the contract shall be specified in SCC.

30.2 Payment shall be made by the Owner after joint measurements by the Consultants/owner. Running payment to the Contractor shall not be made more than once a month. The minimum amount of bill to be raised shall not be less than Rs. 10 Lakhs. A retention amount of 5% of Gross value of bill shall be deducted from each running bill including final bill.

30.3 All intermediate running payments to the contractor shall be regarded as payments by way of advance against the final payment and shall not preclude the requiring of bad, unsound and imperfect or unskillful work to be removed, taken away and reconstructed or re-erected.

30.4 The Final RA Bill will be released subject to submission of documents mentioned in SCC.

**31.0 Variations and Provisional Cost:**

31.1 Where work cannot be measured and valued properly, the Contractor shall be allowed day work rates on the prices prevailing when such work is carried out (unless otherwise provided in the contract):

- a. At the rates, if any, inserted by the Contractor in the priced Schedule of Quantities or
- b. If no such rates have been inserted then at the rates prevailing in the market for material and labour and at the control rates for the controlled materials including in all cases the rate for delivery of the material at the work.

31.2 Provided that in any case voucher specifying the time daily spent upon the work (and if required by the Consultants/Owner the workman's names) and the materials used shall be delivered for verification to the Consultants, his authorized representative not later than the end of the week following that in which the work has been executed. Effect shall be given to the measurement and valuation of variations in interim Certificates and by adjustment of the total Contract Value.

### **32.0 Claims for Extra or for Deviations**

32.1 The Owner shall not be responsible for the payment of any claim for extra work not included in the contract nor the Contractor shall be entitled to claim any addition to the contract sum in respect of any changes or alterations in the materials used unless the same shall have been ordered or sanctioned, as the case may be, in writing by the Consultants/ Owner.

32.2 In the event of any dispute arising either as to validity of the claim or as to the account to be paid or allowed in respect thereof, the decision of the Consultants/ owner shall be final and binding on the contractor. In the meantime, the Contractor shall either proceed with the work in question or suspend the same as may be determined by the Consultants/owner and no payments due or payable by the Owner or his agent, as the case may be, shall be withheld on account of such dispute.

32.3 All extra works (those permitted by Owner) of every description shall be executed by contractor on site of work in pursuance of any of the provision of the contract, shall be measured up, and shall be paid according to actual quantities ascertained by such measurements and the prices as finalized by the Consultants/ owner based on the priced schedule of quantities so that such priced schedule of quantities shall include all such operations and accessories as appear in the said schedule of prices or specification to be or shall in the opinion of the Consultants/ owner the contingencies upon the works mentioned in such schedule of prices or required to make such works perfect and fit for use.

32.4 Provided also that if any work shall be ordered by the Consultants/Owner and executed by the Contractor for the payment of which no provision in the opinion of the Consultants have been made in the priced schedule of quantities or the specifications, the Consultants owner shall fix and determine such prices for the same based on the prices appearing in the priced schedule of quantities, such allowance being made as may seem to the Consultants owner sufficient for any difference in the character of conditions of the work. However rates for extra items shall be fixed on the basis of actual rate analysis.

32.5 The Consultants/owner may at any time / stage of execution demand for the analysis of rates for any item / items of work which in their opinion is / are with abnormally high / low rates or required for the analysis of rates of other tender / extra item / items. The Contractor is bound to present the same and if the Contractor is unable to present a justified analysis of rates for any item / items, the rate / rates for such item may be adjusted accordingly and the decision of the Consultants/ owner in such cases shall be final and binding.

### **33.0 Removal of Imperfect Work.**

33.1 If, it shall appear that the work has been executed with unsound, imperfect or unskilled workmanship, or with material of any imperfect or any inferior quantity or otherwise not in accordance with the contract documents the Contractor shall at his own cost rectify, reform, remove, or reconstruct the same, either in the whole or in part, as may be directed by the Engineer, whether or not the value of any such work or materials shall have been included in any payment made to the Contractor.

33.2 The Contractor shall remove all debris etc., wash and clean the floors and hand over the site quite clean on the completion of the work to the satisfaction of the Owner / Consultants.

#### **34.0 Delay in the Contractor's performance**

34.1 Execution of the work and performance of the services shall be done by the Contractor in accordance with the time schedule specified by the Owner in the Notice for Invitation of Tenders.

34.2 If, at any time during performance of the contract, the Contractor should encounter conditions impeding timely execution of the works and performance of services, the Contractor shall promptly notify owner/ the Consultants in writing of the fact of the delay, its likely duration and its cause(s). As soon as possible, after receipt of the Contractor's notice, the owner/Consultants shall evaluate the situation and may, entirely at its discretion, extend the Contractor's time for performance with or without liquidated damages.

#### **35.0 Liquidated Damages.**

If the Contractor fails to execute any or all of the works or to perform the services within the period(s) specified in the contract, the Owner shall deduct from the contract value, as liquidated damages, a sum specified in the SCC for each week or part thereof delay until actual completion or performance, up to a maximum deduction of the percentage specified in SCC. Once the maximum is reached, the Owner may consider termination of the contract. The prorata progress envisaged and expected from the contractor shall be maintained, time being the essence of the contract.

#### **36.0 Termination by Default**

36.1 The Owner may without prejudice to any other right or remedy, by written notice (of fifteen days) of default sent to the Contractor, terminate the contract in whole or part:

- a) if the Contractor fails to complete any or all of the works within the period(s) specified in the NIT or any amendment thereof, or within any extension thereof granted by the Owner, or
- b) if the Contractor fails to perform any other obligation(s) under the contract,

36.2 In the event, the Owner terminates the contract in whole or in part, the Owner may procure, upon such terms and in such manner as it deems appropriate, works or services similar to those unexecuted and the Contractor shall be liable to the Owner for any excess costs for such similar work or services. However, the Contractor shall continue the performance of the contract to the extent not terminated.

#### **37.0 Force Majeure**

37.1 The Contractor shall not be liable for forfeiture of its performance security, liquidated damages or termination by default, if and to the extent that, its delay in performance or other failure to perform its obligations under the contract is the result of an event of Force Majeure.

37.2 For purposes of this clause, "Force Majeure" means an unforeseeable event beyond the control of the Contractor and is not because of the Contractor's fault or negligence. Such events may include acts of the Owner either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics.

37.3 If a Force Majeure situation arises, the Contractor shall promptly notify the Owner in writing of such conditions and the cause thereof. Unless otherwise directed by the Owner in writing, the Contractor shall continue to perform its obligations under the

contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

### **38.0 Termination for Insolvency**

38.1 The Owner may at any time terminate the contract by giving written fifteen days notice to the Contractor, if the Contractor becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Contractor, provided such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Owner.

### **39.0 Termination for Convenience**

The Owner, by written notice of fifteen days sent to the Contractor, may terminate the contract, in whole or in part, at any time for its convenience. The notice shall specify that the termination is for Owner's convenience, the extent to which performance of the Contractor under the contract is terminated, and the date upon which such termination becomes effective.

The items of work those are complete and ready after the Contractor's receipt of notice of termination shall be accepted, if completed within the notice period, by the Owner at the contract terms and values. For the remaining works, the Owner may elect;

- a) to have any portion completed at the contract terms and value and/or
- b) to cancel the remainder and pay to the Contractor an amount, finalized by the Consultants/Owner, for partially completed works and for materials and parts previously procured by the Contractor.
- c) The contractor shall obtain written permission from the owner to complete the incomplete items of work during the notice period.

### **40.0 Resolution of Disputes**

40.1 The Consultants/Owner and the Contractor shall make every effort to resolve amicably by direct informal negotiations any disagreement or dispute arising between them under or in connection with the contract.

If, after thirty (30) days from the commencement of such informal negotiations, the Owner and the Contractor have been unable to resolve amicably a contract dispute, either party may require that the dispute be referred for resolutions to the formal mechanisms specified in the SCC. These mechanisms may include but are not limited to, Arbitration in accordance with rules of Arbitration Act and award made in pursuance thereof shall be binding on both the parties.

### **41.0 Governing language**

41.1 The contract shall be written in English language. All correspondence and other documents pertaining to the contract that are exchanged by the parties shall be written in the same language

### **42.0 Governing law**

42.1 The contract shall be governed by the laws of The Union of India for the time being in force. All disputes arising out of or in any way connected with this agreement shall

be deemed to have arisen in Hyderabad and only the courts in Hyderabad alone shall have exclusive jurisdiction to determine the same.

**43.0 Notices**

43.1 Any notice given by one party to the other pursuant to this contract shall be sent to other party in writing or by cable, telex, or facsimile and confirmed in writing to the other party's address specified in SCC.

A notice shall be effective on the date on which it is delivered, or on the notice's effective date, whichever is later.

**44.0 Discoveries**

44.1 Anything of historical or other interest or of significant value unexpectedly discovered on the Site is the property of the Owner. The Contractor is to notify the Consultants/Owner of such discoveries and carry out the Consultants/Owner's instructions for dealing with them.

**45.0 Dismissal of workmen:**

45.1 The contractor on request from the Consultant/ Owner, immediately dismiss from the works any person employed by him who may be found in the opinion of the client to be unsuitable or incompetent or who has shown misconduct.

**46.0 Working Hours:**

46.1 Normal working hours shall be from 9.00 a.m. to 6.00 p.m. No construction work of important structural nature shall be carried out on Sundays, Holidays and during nights. However permission to work beyond normal working hours can be granted by the Owner/ Consultants in exceptional circumstances to achieve the target schedule of completion.

**B. TIME CONTROL**

**47.0 Programme**

47.1 Within the time stated in the Contract Data the Contractor shall submit to the Consultants/Owner for approval a Program showing the general methods, arrangements, order, and timing for all the activities in the works, along with weekly cash flow forecast.

An update of the Program shall be a program showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining work including any changes to the sequence of the activities.

The Contractor shall submit to the Consultants/Owner, for approval, an updated Program at intervals no longer than the period as stated in the clause no. 8.1. If the Contractor does not submit an updated Program within this period, the Consultants/ Owner may withhold the amount stated in the Contract Data from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue program has been submitted.

The Owner's/Consultants approval of the Program shall not alter the Contractor's obligations. The Contractor may revise the Program and submit it to the Consultants again at any time. A revised Program is to show the effect of Variations.

At any stage of work, Consultants may award any item/part of item of work to contractor's workman/ external agency, if in their opinion, the progress of work is suffering because of that. The work done will be added to the Contractor's bill and the amount paid for the job will be deducted from the Contractor's account.

#### **48.0 Delay and Extension of time**

If in the opinion of the Owner/ Consultants the work be delayed (a) by force majeure or (b) by reason of any exceptionally inclement weather or (c) by reason of proceedings taken or threatened by or disputes with adjoining or neighboring owners or public authorities or (d) by delays of other contractor or Tradesmen engaged by the Owner or the Consultants and the works not referred to in the Schedule of Quantities and/or specification or (e) by reasons of Consultant's instruction or (f) by reason of civil commotion, local combination of workmen or strike or lockout affecting any of the building trades or (g) in consequence of the contractor not having received in due time necessary instructions from the Consultants/ Owner for which he shall have specially applied in writing or (h) from other cause which the Consultants/ Owner may certify as beyond the control of the contractor or ( i) by reason of non-payment of interim certificate at specified time, the Consultants shall recommend for approval by the Owner a fair and reasonable extension of time for completion of the Contract works. In case of strike or lockout the contractor shall as soon as may be given written notice thereof to the Consultants/Owner, but the contractor shall nevertheless constantly use his endeavors to prevent delay and shall do all that may reasonably be required to the satisfaction of Consultants/ Owner to proceed with the work.

### **C. QUALITY CONTROL**

#### **49.0 Identifying Defects**

49.1 The Owner/Consultants shall check the Contractor's work and notify the Contractor of any Defects that are found. Such checking shall not affect the Contractor's responsibilities. The Owner/ Consultants may instruct the Contractor to search for a Defect and to uncover and test any work that the Consultants/ Owner consider may have a Defect.

#### **50.0 Correction of Defects**

50.1 The Owner /Consultants shall give notice to the Contractor of any Defects before the end of Defects Liability Period, which begins at Completion and is defined in the Contract Data. The Defects Liability period shall be extended for as long as Defects remain to be corrected.

50.2 Every time notice of Defect is given, the Contractor shall correct the notified Defect within the length of time specified by the Owner/ Consultant's notice.

#### **51.0 Uncorrected Defects**

51.1 If the Contractor has not corrected a Defect within the time specified in the Owner /Consultants' notice, the Owner/ Consultants will assess the cost of having the Defect corrected, and the owner will realise the cost of rectification from the contractor bill.

### **D. COST CONTROL**

#### **52.0 Schedule of Quantities**

- 52.1 The Schedule of Quantities shall contain items for the construction work, installation, testing, and commissioning work to be done by the Contractor.
- 52.2 The Schedule of Quantities is used to calculate the Contract Price. The Contractor is paid for the quantity of the work done at the rate in the priced Schedule of Quantities for each item.

### **53.0 Variations**

- 53.1 All variations in the programme pursuant to delay shall be included in the updated programmes produced by the Contractor.

### **54.0 Payments for Variations**

- 54.1 The Contractor shall provide the Owner/ Consultants with a quotation (with breakdown of unit rates) for carrying out the Variation when requested to do so by the Owner/Consultants. The Owner/ Consultants shall assess and finalise the quotation, which shall be given within seven days of the request or within any longer period stated by the Owner /Consultants and before the Variation is ordered.
- 54.2 If the Contractor's quotation is unreasonable, the Owner /Consultants may order the Variation and make a change to the Contract Price which shall be based on Owner/Consultants' own forecast of the effects of the Variation on the Contractor's costs.
- 55.3 No escalation shall be payable on any account.

## **E: FINISHING THE CONTRACT**

### **55.0 Completion Certificate**

- 55.1 The Contractor shall request the Owner/ Consultants to issue a Certificate of Completion of the Works and the Owner/ Consultants will do so upon deciding that the Work is completed.

### **56.0 Taking Over**

- 56.1 The Owner shall take over the Site and the Works within seven days of the Consultants issuing a certificate of Completion, subject to satisfaction of owner in regard to completion of work before handing over the site, the contractor must obtain a site clearance certificate from the Owner/Consultants.

### **57.0 Final Account**

- 57.1 The Contractor shall supply to the Owner /Consultants a detailed account of the total amount that the Contractor considers payable under the Contract before the end of the Defects Liability Period. The Owner/ Consultants shall issue a Defect Liability Certificate and certify any final payment that is due to the Contractor within 15 days of receiving the Contractor's account if it is correct and complete. If it is not, the Owner /Consultants shall issue within 15 days a schedule that states the scope of the corrections or additions that are necessary. If the Final Account is still unsatisfactory after it has been resubmitted, the Owner /Consultants shall decide on the amount payable to the Contractor and issue a payment certificate within 15 days of receiving the Contractor's revised account.

### **58.0 No Claim Certificate**

- 58.1 No claim certificate shall be submitted by the Contractor as per ARCI format.

- 59.0** Taxes to be deducted at source and charges for WCT/Cess/ Seinerage will be issued to the contractor. The contractor will be required to deliver the cheque to the concerned authorities, and the acknowledgement is to be deposited with ARCI along with subsequent running bill.

## SPECIAL CONDITIONS OF CONTRACT (SCC)

The following Special Conditions of Contract are supplementary, to the General Conditions of Contract. Whenever there is a conflict, the provisions herein shall prevail over those in the General Conditions of Contract. The corresponding clause number of the General Conditions of Contract is indicated in parentheses.

### **1.0 Definition**

- (A) Owner means **International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI), an autonomous Research and Development Centre of Department of Science & Technology, Government of India)**  
Balapur P.O.,  
Hyderabad– 500005.
- (B) Site means the project site situated at Proposed **EXTENSION/RENOVATION OF CANTEEN BUILDING AT ARCI, BALAPUR, HYDERABAD**

#### **(i) Performance Guarantee**

The (Earnest Money Deposit) EMD of the successful Tenderer shall be returned on submission of the Performance Guarantee. Within fifteen days (15) from date of LOI, the Contractor shall furnish Performance Guarantee to the Owner amounting to 5% of the accepted Tender Value in the form of Bank guarantee from nationalized bank.

Release of Performance Guarantee: 100% after the completion of work i.e. final bill and issuance of completion certificate by the Owner.

Agreement will be executed after submission of PBG.

### **2.0 Payments**

Following terms of payment shall be applicable –

#### **2.1 Payment against Running Bills**

- The Contractor shall be paid for the work done against running bills to be raised for minimum value of Rs.10.00 lakhs.
- 95% of the Bill amount will be paid as on account payment after joint measurements by the Owner/Consultants The following payment will be recovered from the bills:
- Value of chargeable materials issued by the Owner or Consultants.
- Security deposit @ 5% of gross value of the bill. Half of this amount will be released with final bill on submission of bank guarantee for equivalent amount and the validity of bank guarantee shall be up to defect liability period plus two months. Remaining half will be released after successful completion of defects liability period. Subject to compliance of clause 4.4 below.

- Statutory deductions like income Tax, VAT/GST, Cess under Building and Other Construction Workers Welfare Cess Act, 1996 etc. as applicable and seignorage charges, if any.
- Any other recovery if due.

**Payment shall not be released against 1<sup>st</sup> R/A bill until submission of following documents by contractor to the Owner and also subsequent RA bills.**

- Performance guarantee bond
- Labour License (as per statutory requirements)
- EPF Code Registration number with RPFC.
- Insurance – Contractor’s All Risk (CAR) Policy
- Workmen compensation policy
- Third Party Liability Insurance for four occurrences each occurrence of 2.0 lac.
- GST registration number.
- Indemnity Bond in standard proforma indemnifies the Owner against all risks arising during the performance of the contract.
- Test reports on materials used.
- Challans/receipts of taxes paid to statutory authorities i.e. Seignorage (earth materials as per Govt norms), labour cess, GST etc.,

Registration under Building and Other Construction Workers Welfare Cess Act, 1996 if applicable.

Undertaking for compliance of all labour laws

## **2.2 Basis of Payment in RA bills**

Payment in RA bills shall be based on quantity of work executed at site (as per the item of work) & verified by Owner/Consultants as per the item rate in work orders. Owner/ Consultants is authorized to allow part rate/reduced rate for any item of work. The Consultants shall specify the reason for the part rate payment in the RA bill.

## **2.3 Disallowance of payment**

If payment has been made in RA bill for any item of work but later on some defect is noticed, Owner/Consultants is authorized to disallow the payment in the subsequent bills till rectification of the work.

## **2.4 Final bill**

The final bill complete in all respect shall be submitted by the contractor within 60 days from the completion of the work. The bill should be accompanied with the following documents.

- i. Job completion certificate.
- ii. No claim certificate on Owner/s prescribed proforma.
- iii. Site clearance certificate.
- iv. Indemnity certificate towards labour payment and all statutory payments.
- v. Certificate of test on materials etc.
- vi. Statement of accounts showing the advances taxes, deductions, security deposit at a latest position duly attested by Owner.

- vii. Certificate of joint measurement sheets – Duly signed by the Owner, Contractor and Consultant.
- viii. Copy of the insurance policy. (Workmen compensation act and contractors all risk policy).
- ix. Contractor should submit Operation and Maintenance manuals and testing and commissioning reports with Guarantee and Warranty certificates.
- x. Original quality control record, measurement records and any other joint site records maintain at site. No claim shall be entertained after receipt of final bill.
- xi. Settlement of final bill shall be made subject to deduction of all dues payable by contractor, settlement of all disputes and furnishing of all required documents/clarifications and grant of extension of time, if any, by Owner’s competent authority.
- xii. Statutory Compliance certificate should be submitted by the Contractor towards payment of insurance, Seignorage, VAT/GST, labour cess and other taxes if any applicable.
- xiii. A compliance Certificate should be submitted towards deployment of Technical & Safety man power as per the Tender Clauses.

### **3.0 ESCALATION**

**No Escalation shall be paid on any account.**

### **4.0 Liquidated Damages**

- 4.1 0.5% per week upto a maximum of 5% (Five percent) of the Contract value from the stipulated date of completion.

### **5.0 Notices**

For the purpose of all notices, the following shall be the address of the Owner and the Contractor.

Owner:           The Director,  
**International Advanced Research Centre for Powder  
 Metallurgy and New Materials (ARCI),**  
 Balapur P.O.,  
 Hyderabad– 500005.

Contractor: \_\_\_\_\_  
 (To be filled in at the time of Signing of the Contract)

\_\_\_\_\_

### **6.0 Labour**

- 6.1 The Contractor shall make his own arrangements for the engagement of all staff and labour, local or other, and for their payment, housing, feeding and transport. No labour to stay at site.
- 6.2 The Contractor shall, if required by the owner/Consultants, deliver to the owner/Consultants a return in detail, in such form and at such intervals as the owner/Consultants may prescribe, showing the staff and the numbers of the

several classes of labour from time to time employed by the Contractor on the Site and such other information as the owner/ Consultants may require.

6.3 Compliance with labour regulation:

During continuance of the contract, the Contractor and his sub Contractors shall abide at all times by all existing labour enactments and rules made thereunder, regulations, notifications and bye-laws of the State or Central Government or local authority and any other labour law (including rules), regulation by laws that may be passed or notifications that may be issued under any labour law in future either by the State or the Central Government or the local Authority. The Contractor shall keep the Owner indemnified in case any action is taken against the Owner by the competent authority on account of contravention of any of the provisions of any Acts or rules made thereunder, regulation or notifications including amendments. If the Owner is caused to pay or reimburse, such amount as may be necessary to cause or observe, or for non-observance of the provisions stipulated in the notifications/bye laws/Acts/Rules /regulations including amendments, if any, on the part of the Contractor, the owner/Consultants shall have the right to deduct any money due to the Contractor including his amount of performance security. The Owner/Consultants shall also have right to recover from the Contractor any sum required or estimated to be required for making good the loss or damage suffered by the Owner

6.4 The employees of the Contractor and the Sub-Contractor in no case shall be treated as the employees of the Owner at any point of time.

6.5 No labour shall stay at site. Temporary storage space provision should be made by contractor.

6.6 The rates shall be complete in all respects i.e. inclusive of all taxes, octroi, local taxes, packing and forwarding, work contract tax, Seignorage charges nothing on any account shall be paid over the approved rate.

6.7 All specialized and specific jobs shall be carried out by approved agencies/vendors only.

6.8 The Contractor shall arrange temporary drinking water and sanitation facilities for his workmen.

**6.9 Fair Wage Clause:**

- i. The contractor shall pay not less than fair wages to labourers engaged by him on the work.
- ii. "Fair" wages means wages whether for time or piecework notified by the Government from time to time in the area in which the work is situated.
- iii. The contractor shall not with-standing the revisions of any contract to the contrary cause to be paid to the labour, in directly engaged on the work including any labour engaged by the sub-contractor in connection with the said work, as if the labourers had been directly employed by him.
- iv. In respect of labour directly or indirectly employed in the works for the purpose of the contractors part of the agreement the contractor shall comply with the rules and regulations on the maintenance of suitable records prescribed for this purpose from time to time by the Government. He shall maintain his accounts and vouchers on the payment of wages to the labourers to the satisfaction of the Engineer-in-charge.
- v. The Engineer-in-charge shall have the right to call for such record as required to satisfy himself on the payment of fair wages to the

- labourers and shall have the right to deduct from the contract amount a suitable amount for making good the loss suffered by the worker or workers by reason of the “fair wages” clause to the workers.
- vi. The contractor shall be primarily liable for all payments to be made and for the observance of the regulations framed by the Govt., from time to time without prejudice to his right to claim indemnity from his sub-contractors.
  - vii. As per contract labour (Regulation and abolition) Act. 1970 the contractor has to produce the license obtained from the licensing officers of the labour department along with the tender or at the time of agreement.
  - viii. Any violation of the conditions above shall be deemed to be a breach of his contract.
  - ix. Equal wages are to be paid for both men and women if the nature of work is same and similar.
  - x. The contractor shall arrange for the recruitment of skilled and unskilled labour local and imported to the extent necessary to complete the work within the agreed period as directed by the Engineer-in-charge in writing.

#### **7.0 Safety Measures:**

- i. The contractor shall take necessary precautions for safety of the workers and preserving their health while working in such jobs, which require special protection and precautions. The following are some of the measures listed but they are not exhaustive and contractor shall add to and augment these precautions on his own initiative where necessary and shall comply with directions issued by the Engineer-in-charge or on his behalf from time to time and at all times.
- ii. Providing protective foot wear to workers situations like mixing and placing of mortar or concrete, sand in quarries and places where the work is done under much wet conditions.
- iii. Providing protective headwear to workers at places like underground excavations to protect them against rock falls.
- iv. Providing masks to workers at granulates or at other locations where too much fine dust is floating about and sprinkling water at frequent intervals by water hoses on all stone crushing area and storage bins abate to dust.
- v. Getting the workers in such jobs periodically examined for chest trouble due to too much breathing in to fine dust.
- vi. Taking such normal precautions like fencing and lighting in excavation of trenches, not allowing rolls and metal parts of useless timber spread around, marking danger areas for blasting providing whistles etc.
- vii. Supply work men with proper belts, ropes etc., when working in precarious slopes and heights etc.
- viii. Avoiding un-insulated electrical wire etc., as they would electrocute the workers.
- ix. Taking necessary steps towards training the workers concerned on the machinery before they are allowed to handle them independently and taking all necessary precautions in and around the areas where machines hoists and similar units are working.

- x. The Contractor should isolate the work spot by providing safety barricades, Signage boards and etc.

### **8.0 Indemnity Bond:**

The tenderers should submit Indemnity Bond at the time of the Agreement as specified below.

Name of work: ... \_\_\_\_\_

I \_\_\_\_\_ contractor S/o. \_\_\_\_\_ aged \_\_\_\_\_ Resident of \_\_\_\_\_ do hereby bind myself to pay all the claims may come (a) under Workmen's Compensation Act. 1933 with any statutory modification thereof and rules there under or otherwise for or in respect of any damage or compensation payable in connection with any accident or injury sustained (b) under Minimum wages Act 1948 (c) under payment of wages Act.1936 (d) under the Contractor labour (Regulation and Abolition) Act. 1970 by workmen engaged for the performance of the business relating to the above contract ie., failing such payment of claims of workmen engaged in the above work and any claim raised by statutory authorities for nonpayment of taxes and duties, I abide in accepting for the recovery of such claims, effected from any of my assets with the Corporation and with other Government Departments / Corporations.

### **9.0 Fire fighting measures:**

- a) The contractor shall provide and maintain adequate firefighting equipment and take adequate fire precaution measures for the safety of all personnel and temporary and permanent works and shall take action to prevent damage to destruction by fire of trees shrubs and grasses.
- b) Separate payment will not be made for the provision of fire prevention measures.

### **10.0 Resolution of Disputes & Arbitration**

- 10.1 All disputes, other than quality, quantity, workmanship, specification, design, drawing, extension of time and rates for extra items, arising out of or relating to this contract whether arising during the progress of the work or after cancellation, termination, completion or abandonment there of shall dealt with mentioned herein after. The decision of consultant on the after said excepted matters shall be final and building.
- 10.2 If the contractor considers any work demanded of him to be outside the requirements of the contract or disputes any drawings, record or decision given in writing in connection with or arising out of the contract or carrying out of the work, he shall promptly within 15 days request the Consultants in writing for written instruction or decision.
- 10.3 If the Contractor is dissatisfied with this decision, the Contractor shall within a period of 30 days from receipt of the decision, give written notice to Director the International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI) for appointment of Arbitrator failing which the said decision shall be final binding and conclusive and not referable to adjudication by the Arbitrator.

Except where the decision has become final, binding and conclusive in terms of Sub Para (i) above disputes or difference shall be referred for adjudication

through arbitration by a sole arbitrator appointed by The Director, International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI). If the arbitrator so appointed is unable or unwilling to act or resign his appointment or vacates his office due to any reason whatsoever another sole arbitrator shall be appointed in the manner aforesaid. Such person shall be entitled to proceed with the reference from the stage at which it was left by his predecessor.

- 10.4 It is a term of this contract that the party invoking arbitration shall give a list of disputes with amounts claimed in respect of each dispute along with the notice for appointment of arbitrator.
- 10.5 It is also a term of this contract that no person other than a person appointed by such International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI) as aforesaid should act as arbitrator and if for any reason that is not possible, the matter shall not be referred to arbitration at all.
- 10.6 It is also a term of this contract that if the contractor does not make any demand for appointment of arbitrator in respect of any claims in writing as aforesaid within 30 days of receiving the intimation from the Owner that the final bill is ready for payment, the claim of the contractor shall be deemed to have been waived and absolutely barred and ARCI shall be discharged and released of all liabilities under the contract in respect of these claims.
- 10.7 The arbitration shall be conducted in accordance with the provisions of the Arbitration and Conciliation Act, 1996 (26 of 1996) or any statutory modifications or reenactment thereof and the rules made there under and for the time being in force shall apply to the arbitration proceedings under this clause.
- 10.8 It is also a term of contract that a simple interest of not more than 6% shall be applicable on the award.
- 10.9 The cost of arbitration shall be shared equally by both the parties.

## **11.00 Clauses-Nil**

## **12.0 Protection of environment**

- 12.1 The Contractor shall take all reasonable steps to protect the environment on and off the Site and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution, noise or other causes arising as a consequence of his methods of operation.
- 12.2 During continuance of the contract, the Contractor and his sub-contractors shall at all times abide by all existing enactment on environmental protection and rules made thereunder, regulations, notifications and bye-law of the State or Central Government, or local authorities and any other law, by-law, regulations that may be passed or notification that may be issued in this respect in future by the State or Central Government or the local authority.
- 12.3 Salient features of some of the major laws that are applicable are given below:  
The Water (Prevention and Control of Pollution) Act, 1974 This provides for the prevention and control of water pollution and the maintaining and restoring of wholesomeness of water. 'Pollution' means such contamination of water or such alteration of the physical, chemical or biological properties of water or such discharge of any sewage or trade effluent or of any other liquid, gaseous or solid substance into water (whether directly or indirectly) as may,

or is likely to create a nuisance or render such water harmful or injurious to public health or safety, or to domestic, commercial, industrial agricultural or other legitimate uses, or to the life and health of animals or plants or of aquatic organisms.

The Air (Prevention and Control of Pollution) Act, 1981. This provides for prevention, control and abatement of air pollution, 'Air Pollution' means the presence in the atmosphere of any air pollutant', which means any solid, liquid or gaseous substance (including noise) present in the atmosphere in such concentration as may be or tend to be injurious to human beings or other living creatures or plants or property or environment.

The Environment (Prevention and Control of Pollution) Act, 1986 This provides for the protection and improvement of environment and for matters connected to herewith, and the prevention of hazards to human beings. Other living creatures, plants and property, 'Environment' includes water, air and land and the interrelationship which exists among and between water, air and land, and human beings, other living creatures, plants, micro-organism and property.

The Public Liability Insurance ACT 1991. This provides for public liability insurance for the purpose of providing immediate relief to the persons affected by accident occurring while handling hazardous substance means any substance or preparation which is defined as hazardous substance under the Environment (Protection) Act 1986, and exceeding such quantity as may be specified by notification by the Central Government.

**13 Deployment of Manpower:**

The contractor shall deploy the following minimum man power at site to take instructions from ARCI Staff & Report the site activities on day to day basis execution of quality work and maintain all statutory records as per Govt. norms/as directed by ARCI staff.

- 1) The Contractor shall maintain supervisor staff to Labour ratio as per standard government / CPWD norms.
- 2) The Contractor may employ more number of site Engineers other than above mentioned Engineers to get quality workmanship and maintain all statutory records as per ARCI staff.

**14** The quantity mentioned in the purchase order is only approximate in nature i.e., approximate quantified scope. Hence, the contractor should **not claim any compensation towards non-operation of the part or total quantities and non-operated items listed in the Purchase order.**

**15** Photographic monthly progress report in the prescribed proforma shall be submitted through the consultant before 2<sup>nd</sup> day of every month .The photograph should be taken before and after the work.

**16 Accident or Injury to Workman:**

- a) ARCI shall not be responsible for any injury or loss of life of any worker of the contractor that may take place while on work. Any compensation or expenditure towards treatment for such injury or loss of life shall be the sole responsibility of the contractor.
- b) The contractor is solely responsible for any damage injury or accident that may occur to any of his personnel working under this contract. He will not claim any compensation from ARCI.

- 17** Since the payments are based on actual site measurement, the contractors are advised to procure the materials based on actual site requirement. Payment will not be made for left out and unused materials.
- 18** **Income tax:**
- a) During the currency of the contract, deduction of TDS as applicable from the gross value of each bill of the contract.
- b) The contractor's staff, personnel and labour will be liable to pay personnel income taxes in respect of their salaries and wages as are chargeable under the laws and regulations for the time being in force, and the contractor shall perform such duties in regard to such deductions thereof as may be imposed on him by such laws and regulations.
- 19** Seignorage charges will be recovered as per Government Orders / Mines and Geology Dept. issued from time to time from the work bills of the contract and based on the theoretical requirement of materials.
- 19.1 The Contractor should ensure the mining items should be purchased from the Govt. authorized quarries and submit the required document to the ARCI along with the bills.
- 20** VAT/GST and Labour Cess, Seignorage as per rule will be born by the contractor. Taxes to be deducted at source and cheques for WCT/Cess/Seignerrage will be issued to the contractor. The contractor will be required to deliver the cheque to the tax authorities, the acknowledgement of which will be deposited by the contractor with ARCI along with subsequent RA bill.
- 21** The Contractor will be required to keep all the codes mentioned in the document at site. It will be the responsibility of the contractor to obtain separate code/identification number for contractor deposit of PF dues, if applicable with the concerned authorities directly.
- 22** It would be necessary for the contractor to get his materials gate entry at ARCI Main gate with the duty officer of ARCI before unloading at the site.

**APPENDIX- I**  
**SCHEDULE OF FISCAL ASPECTS**

<b>S. No</b>	<b>Aspect</b>	<b>:</b>	<b>Description of Aspect</b>
1	<b>Completion Period Building wise</b>	:	5Months From The date of Purchase Order
2	<b>Estimation Cost</b>	:	Rs 94.5 Lakhs
3	<b>EMD</b>	:	Amount of Rs. 2, 36,250/-.
4	<b>Date of Commencement</b>	:	10 days from the date of LOI / Purchase Order. The work shall commence
5	<b>Possession of Site</b>	:	Immediately on receipt of work order from Owner.
6	<b>Performance guarantee</b>	:	5% of the contract value in the form of bank guarantee valid for period till completion of work
7	<b>Security Deposit (SD)</b>	:	<p>a) 5% of the bill value shall be deducted from every bill. Half of SD will be released with the final bill on submission of bank guarantee for equivalent amount with validity period up to defect liability period plus two months.</p> <p>b) The balance half will be refunded /returned to the contractor after successful completion of the defect liability period.</p> <p>c) No Interest is payable on the security Deposit</p>
8	<b>Minimum amount of third party insurance</b>	:	Rs. 5.0 lac per occurrence with number of occurrences of four subject to latest statutory regulations issued by the Government.
9	<b>Minimum value of work for each RA Bill</b>	:	Rs. 10.00 Lakhs.
10	<b>Payment terms</b>	:	<p>a) Progressive R.A bill amount to 95% of value of work done as per site joint measurement certified by ARCI Staff.</p> <p>b) I) 2.5% of the security deposit will be released with final bill against equivalent bank guaranty, valid for defect liability period plus two months.</p> <p>II) Remaining 2.5% of the security deposit will be released after successful completion of defect liability period. Subject to defect free performance of the work executed by the contractor during the defect liability period. If any deficiency/substandard/inferior in the work (material &amp; labour) is observed during the defect liability period, cost thereof will be adjusted from the retention money.</p> <p>c) TDS under IT Act, as applicable shall be deducted from the payment.</p> <p>d) ARCI reserves the right to adjust any excess / short payment made in the earlier bills, at the time</p>

			of making payments. e) Computerized detailed measurements, Running Accounts Bills and Final Bill will be Prepared by contractor and submitted to ARCI for verification and approval.
11	<b>Liquidated damages for Delay (LD Clause)</b>	:	Time shall be considered the essence of this contract. The entire work must be completed within allotted time from the date of commencement of the work. If the completion of the work is delayed beyond time allotted, a penalty at the rate of 0.5 % per week over the contract value will be imposed subjected to a maximum of 5% of the contract value.
12	<b>Defects Liability Period</b>	:	12 calendar months from the date of Issue of Final completion certificate/Acceptance of work by ARCI
13	<b>Increase or decrease in cost</b>	:	Quoted prices are firm and no escalation charges on any account are allowed till the completion of the work .No claim will be entertained on this account in future
14	<b>Statutory Taxes</b>	:	Taxes such as Seignorage, labour cess, GST/VAT, WCT insurance of work and workmen including third party insurance are applicable and to be borne by the Contractor. Taxes to be deducted at source and cheques for WCT/ Cess/ Seignerrage will be issued to the contractor. The contractor will be required to deliver the cheque to the tax authorities, the acknowledgement of which will be deposited by the contractor with ARCI along with subsequent RA bill.

**PROFORMA OF BANK GUARANTEE FOR RETENTION MONEY  
ON NON-JUDICIAL STAMP PAPER OF RS. 100/-**

To,

\_\_\_\_\_

WHEREAS \_\_\_\_\_ (hereinafter called the "CONTRACTOR") has undertaken, in pursuance of \_\_\_\_\_ dated \_\_\_\_\_ to execute "Civil, Electrical, Lan. Telephone, Plumbing, & including renovation works for International Advanced Research Centre for Powder Metallurgy and New Materials, (ARCI) at Balapur P.O., Hyderabad - 500005 (hereinafter called the "CONTRACT")

AND WHEREAS it has been stipulated by you in the said contract that the Contractor shall furnish you with a Bank Guarantee by a nationalized bank for the sum specified therein as security for compliance with Contractor's Performance obligations in accordance with the contract.

AND WHEREAS we, (Name of Bank) having our office at \_\_\_\_\_ (hereinafter called the "BANK") have agreed to give the Contractor a Guarantee.

THEREFORE, we the Bank, hereby affirm that we are Guarantors and responsible to you, on behalf of the Contractor, up to a total of \_\_\_\_\_ (Rupees \_\_\_\_\_) and we undertake to pay you, without demur merely upon your first written demand declaring the Contractor to be in default under the Contract and without cavil or argument, any sum or sums within the limit of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only) as aforesaid, without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We the Bank lastly undertake not to revoke this guarantee except with the previous consent of the Owner in writing.

This guarantee is valid till \_\_\_\_\_.

NOTWITHSTANDING anything contained herein above.

Our liability under this Bank Guarantee shall not exceed Rs. \_\_\_\_\_/- (Rupees

\_\_\_\_\_ only)

This Bank Guarantee shall be valid upto \_\_\_\_\_.

We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written claim or demand on or before

\_\_\_\_\_.

Dated:

Place:

## FORM OF PERFORMANCE GUARANTEE / BANK GUARANTEE BOND

In consideration of the Director, ARCI (hereinafter called "Director") having offered to accept the terms and conditions of the proposed agreement between .....and .....(hereinafter called "the said contractor(s)" for the work .....(hereinafter called "the said agreement") having agreed to production of an irrevocable Bank guarantee for Rs.....(Rupees .....only) as a security / guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement.

1. We ..... (hereinafter referred to as the "Bank") hereby undertake to (Indicate the name of the Bank) pay to the Director an amount not exceeding Rs.....(Rupees.....only) on demand by the Director.
2. We.....do hereby under take to pay the amounts due and payable (Indicate the name of the Bank) under this guarantee without any demur, merely on a demand from the Director stating that the claimed is required to meet the recoveries due or likely to be due from the said contractor(s). 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 ..... (Rupees.....only).
3. We, the said Bank, further undertake too pay the Director any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any Court or Tribunal relating thereto, our liability under this present being absolute and unequivocal.  
The payment so made by us under this bond shall be valid discharge of our liability for payment thereunder, and contractor(s) shall have no claim against us for making such payment.
4. We.....further agree that the guarantee herein contained shall (indicate the name of the Bank) remain in full force and effect during the period that would be taken for the performance of the said agreement, and it shall continue to be enforceable till all the dues of the Director under or by virtue of the said agreement have been fully paid, and it's claims satisfied or discharged, or till the Engineer-in-charge, on behalf of the Director, certifies that the terms and conditions of the said agreement have been fully and properly carried out by the said contractor(s), and accordingly discharges this guarantee.
5. We.....further agree with the Director that the Director (Indicate the name of the Bank) shall have the fullest liberty without our consent, and without effecting in any manner our obligations hereunder, to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from the time to time any of the powers exercisable by the Director against the said contractor(s), and to forbear or enforce any of the terms and conditions related to the said agreement, and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said contractor(s) or for any forbearances, act of omission on the part of the Director or any indulgence by the Director to the said contractor(s) or by any such matter or things whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
6. This guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s).
7. We.....lastly undertake not to revoke this Guarantee except with

(Indicate the name of the Bank) the previous consent of the Director in writing.

8. This guarantee shall be valid up to .....unless extended on demand by the Director notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs.....(Rupees.....only), and unless a claim in writing is lodged with us within six months of the date of expiry of this guarantee all our liabilities under this guarantee shall stand discharged.

Dated the..... day of.....For.....

(Indicate the name of the Bank)

## **CIVIL, PLUMBING LIST OF APPROVED MATERIALS**

In case of unavailability of any material of specific make an equivalent make can be used only after a written approval of owner/Consultant. Also the performance of make/brand of the material listed above will be decided by owner/ Consultant. The make/brand of any other item will be as mentioned in the drawings issued by the Consultant.

The contractor shall provide sample of all materials mentioned in the list of makes. A written approval of these samples shall be sought prior to commencement of any work. The owner reserves the right to enquire about the genuineness of any material used at site directly from the manufacturer/Dealer.

### **CIVIL AND PLUMBING ITEMS**

<b>S.No.</b>	<b>Material</b>	<b>Make</b>
1	Cement	Ultratech/Ambuja/ACC/ Bharathi
2	TMT Reinforcement steel	Sail/Tata /VSP
3	Self tapping Screws	Hilti/Land Mark
4	Structural Steel	Sail/Tata Tisco/ VSP
5	Poly Carbonate Sheet	GE Plastic or equivalent
6	Fasteners	Hilti/Land Mark
7	Anti termite chemical	Bayer/Hindustan insecticides
8	Water proofing compound	Dr.fixit/ Fosroc
9	APP Membrane	STP/Dr.fixit/IWL
10	Plasticiser	Fosroc//Pidilite/BSA
11	Glass wool	Llyodinsulation/uptwiga
12	Floor Hardener	Fosroc or Equivalent
13	Wall Putty	Birla/JK
14	Aluminium Extruded section	Hindal co./Jindal
15	Aluminium Skylights	Alox
16	Clear & Reflective glass	Modi, Saintgobain
17	Silicon sealent	Dow corning/wacker
18	Power coating	Nerolac/Berger/ICI
19	Aluminium composite panels	Alucobond/Rweynobond/Alucomat
20	Friction stays	Giesse/Fapin
21	Flush doors with lamination	Green ply/kalpataru/Kutty ravella
22	Decorative Doors	Kalpataru doors/green ply/Kutty
23	Stainless steel door fittings	Godrej/Dorset
24	Door closer	Godrej/Dorset
25	Hard ware	Godrej/Dorset
26	Floor springs	Godrej/Dorset/ Everite
27	Patch fittings	Godrej/Dorset
28	Laminate	Formica, Sunmica, Green Lam
29	Pre laminated particle boards	Novapan/ Marino
30	Adhesive	Fevicol
31	Vitrified tiles	Nitco / Johnson
32	Ceramic tiles	Nitco / Johnson
33	Epoxy grout	Laticrete / Copa bond

<b>S.No.</b>	<b>Material</b>	<b>Make</b>
34	Anti Dust Paint	Procoat or Equivalent
35	Plastic Emulsion paint	Asian – Premium Emulsion
36	Texture Paint	Apex duracast by Asian
37	Epoxy/ polyurethane flooring	Cipy/ Sika
38	Interlocking concrete pavers	Phnoex/ Nimco/ Unistones/ Classic/ Indo/Super decorative/Aditya designers/Eurocon
39	Gypsum Board Partition	Saint gobain/ India Gypsum
40	Expansion joint board as per SS	Shalitek Expansion joint Board from STP limited.
41	Expansion joint coverings as per SS	CS GROUP Expansion joint covers or equivalent
42	600 x 600x16mm Ceiling Tiles	Armstrong Dune
43	300x1200x19mm	Armstrong ultima
44	Sanitary ware	Parryware/Hindware
45	Metal roof Sheet	CRIL ( <a href="http://www.colourroof.com">www.colourroof.com</a> ) or Equivalet
46	Stainless steel sinks	Kingston/ nirali
47	CP fittings and accessories	Jaquar
48	CP Waste, Spreaders/ Urinal Flush pipes	Jaquar
49	Soil, Waste & Rain water pipe & fittings Sandcast iron pipes (IS: 1729)	Necco
50	G.I water supply pipes “B class”	Tata, Jindal,
51	RCC Pipes	Hindustan Hume pipe.
52	PPR Pipes & Fittings	Prince/ Sudhakar
53	Ball Valves	Audco
54	Butterfly/ NRV valves	Audco
55	Water meters	ACTARIS Multymag Turbine type residential water meter
56	Ball cocks	Audco
57	C.I. Manholes Cover and frames	Necco
58	P.V.C. Tanks White	Sintex
59	Sand	River Sand
60	External Paint	Asian. Apex Ultima.
61	Bricks	Lightweight bricks with 50 kg/cm <sup>2</sup> Compressive strength
62	Ready Mix M25 Concrete	Ultra tech, ACC
63	Epoxy Paint	Asian
64	PVC Flooring	Wonder Floor, LG, Armstrong
65	Galvalume colour sheets	Tata, Jindal,Kirby

## LIST OF MANDATORY TESTS

A chart showing recommending time and quantity scheduled for conducting test on various building materials is given. Please ensure that tests are carried out recording to the above guidelines. Contractor's rate should include for necessary expenditure for testing of samples of following materials.

Materials	Test	Frequency
Sand	a. Silt content	50 cum or part thereof
	b. Bulking	-do-
	c. Particle size distribution	Every 50 cum or part thereof for R.C.C. work
Bricks	1. Dimensions	Every 50,000 or part thereof.
	2. Water absorption	Every 1,00,000 or part thereof.
	3. Efflorescence	One test for source of manufacturer.
	4. Compressive strength	20,000 or part thereof.
R.C.C	1. Slump	Once a day or as desired for major R.C.C. work.
	2. Cube strength	i. One set of six cubes for every 20.00 cum or part thereof in beam/slab foundation concrete etc.  ii. One set of six cubes for every 5.00 cum in column, lintels etc.
Timber	Moisture	Every 1 cum or part thereof
Vitrified Tile	i. Transverse strength	200 tiles or part
	ii. Water absorption	- do -
	iii. Abrasion test	- do -
HYDS Bars	i. Yield stress	Every 10.00 M.T. or part thereof for each diameter or
	ii. Proof stress	20.00 M.T. or part thereof
	iii. Percentage elongation.	on the whole whichever is more.
	iv. Tensile Strength	
Cement	As per BIS latest edition	100.00 M.T. or part there of for a lot or part there of.
Flush Door Shutter	As per BIS latest edition	Every 20 Nos or part thereof for a lot or part there of

**Testing:** The engineer order such tests and analysis of all materials brought on site as he considers necessary and the contractor shall bear the cost of all sampling and testing which is in accordance with the Indian standards.

# Bill of Quantities

## BILL OF QUANTITIES (BOQ) FOR RENOVATION OF CANTEEN BUILDINGS

### CIVIL WORKS:

S. NO	ARCI ITEM CODE	DESCRIPTION	GST-HSN/ SAC NO	QTY	BASIC RATE PER UNIT IN RS	GST		TOTAL AMOUNT Qty X Basic Rate +GST
						SGST	CGST	
1	312001771	<b>Dismantling / cutting of RCC items / RCM Drops/PCC</b> and cutting of different dia of reinforcement bars, disposal of dismantled materials up to 1KM lead including cost of hire charges of cutting equipment, labor charges etc complete finished item of work including stacking of the used material at designated place as advised by the engineer in charge.		45CUM				
2	312001772	<b>Dismantling / cutting of Brick wall / Lime sand brick walls</b> , and disposal of dismantled materials up to 1KM lead including cost of hire charges of cutting equipment, labor charges etc complete finished item of work		14CUM				
3	312001773	<b>Earthwork in excavation</b> of foundations for buildings, structures, drains, manholes, chambers, pavements, cable trenches, septic tanks, basements, etc., including all lifts in both wet and dry condition, bailing out		45CUM				

S. NO	ARCI ITEM CODE	DESCRIPTION	GST-HSN/ SAC NO	QTY	BASIC RATE PER UNIT IN RS	GST		TOTAL AMOUNT Qty X Basic Rate +GST
						SGST	CGST	
		water, shoring, strutting(if required), stacking/disposal of surplus and un serviceable soil within a lead of 1.0km & spreading in layers and as per specifications and direction of Engineer. In all soils including soft rock/disintegrated rock and hard rock. The excavated earth which is to be used for back filling shall also be disposed and stacked separately at locations indicated by the Engineer within a lead of 1KM: For depth up to 2.5m.						
4	312001774	PCC (1:4:8) proportion using 40mm nominal size well graded HBG metal for all leveling courses under foundations, and flooring, including necessary centering / shuttering cost and conveyance of all materials from approved source to site mixing concrete, laying, tamping and curing etc., complete for finished item of work..		24CUM				
5	312001775	V.R.C.C(1:1.5:3) prop. Nominal Mix using weigh batcher/mixer , 12 to 20mm size well graded HBG machine crushed chips at all depths, heights and levels in all types of lintels, cable trench side walls,		18CUM				

S. NO	ARCI ITEM CODE	DESCRIPTION	GST-HSN/ SAC NO	QTY	BASIC RATE PER UNIT IN RS	GST		TOTAL AMOUNT Qty X Basic Rate +GST
						SGST	CGST	
		bottom slab, sunshades, loft slabs, sill slabs, pre cast slabs and any other minor concrete works including centering / shuttering charges cost and conveyance of all materials to site, labor charges, vibrating charges, curing with wet hessian cloth and all other incidental and operational charges etc. complete for finished item of work but excluding cost of steel and its fabrication charges						
6	312001776	Supply ,Fabricating and fixing in position <b>HYSD / MS or Tor Steel</b> reinforcements of various diameters at all levels and positions including cost of straightening, cutting, laying, bending, cranking and tying with GI wire after placing in positions as directed by the Engineer-in- charge including cost and conveyance of steel and GI wires, lifting, labor charges and concrete cover blocks etc. The overlaps will not be measured seperately, Use steel-Tata Tisco/VSP/Sail Steel only		1500KG				
7	312001777	Supply fabrication and erection of ANY TYPE OF <b>structural steel</b>		4000KG				

S. NO	ARCI ITEM CODE	DESCRIPTION	GST-HSN/SAC NO	QTY	BASIC RATE PER UNIT IN RS	GST		TOTAL AMOUNT Qty X Basic Rate +GST
						SGST	CGST	
		elements such as Structural steel columns ,beams, stair cases ,angular ladders, fabrication of truss and other minor structural members using angles sections, I Beams, channel sections ,chequered plates, insert plates ,gusset plates, MS Sheets ,MS Pipes, box sections,MS Square bars,MS Flats, all as per specifications including drilling of holes cutting fixing of bolts, nuts, washers, proprietary anchor fasteners/bolts , welding loading transportation and unloading charges including one coat of primer coat and two coats of synthetic enamel paint Asian paint of approved quality etc.,including cost and conveyance of all materials, labour charges and all operational, incidental charges etc., complete for finished item of work Use steel-Tata tisco/VSP/Sail Steel only						
8	312001778	Brick Masonry for sub-structure/ super structures in all heights in cement mortar (1:6) Prop. Using best quality table molded light weight bricks having crushing strength of not less than 50 kg/cm2		75CUM				

S. NO	ARCI ITEM CODE	DESCRIPTION	GST-HSN/SAC NO	QTY	BASIC RATE PER UNIT IN RS	GST		TOTAL AMOUNT Qty X Basic Rate +GST
						SGST	CGST	
		from approved source including cost and conveyance of all materials, scaffolding, labor charges, racking out joints, curing, cement etc. complete for all heights for finished item of work.						
9	312001779	Providing <b>brick work of half-brick thickness</b> using first quality table molded light weight bricks having crushing strength of not less than 50 kg/cm <sup>2</sup> in <b>cement mortar 1:4</b> using 2 tor steel bars (8 mm ) embedded in CM at every 900mm height in partition walls, chambers, other works of all shapes, plinths and super structure at all depths and heights as per specifications including cost and conveyance of all materials, scaffolding, labour charges, racking out joints, curing, etc., complete for all heights for finished item of work		5CUM				
10	312001780	<b>PCC (1:2:4)</b> prop. using 12 to 20mm size well graded HBG machine crushed chips in foundations and other mass concrete works, manholes, channels, screeds, steps, etc. including cost and conveyance of all materials labor charges,		14CUM				

S. NO	ARCI ITEM CODE	DESCRIPTION	GST-HSN/ SAC NO	QTY	BASIC RATE PER UNIT IN RS	GST		TOTAL AMOUNT Qty X Basic Rate +GST
						SGST	CGST	
		centering/shuttering charges machine mixing charges curing and all other incidental and operational charges etc.						
11	312001781	Providing <b>coursed rubble stone masonry</b> in cement mortar of the following proportion in all types of works at all heights and depths with curing, etc., all complete as per specifications and directions of the Engineer. C.M(1:6)		25CUM				
12	312001782	<b>External &amp; internal plaster</b> Providing 20mm thick cement-sand plaster in two coats, backing coat 15mm thick in CM (1:6) and finishing coat 5mm thick, finished smooth at all depths and heights in CM 1:3 proportion ,providing chicken mesh at RCC & masonry joints, necessary dabbing, curing, 10x10mm Grooves as required including scaffolding complete as per specifications. (for all heights ). The plaster work shall be true to the plumb and square and contractor shall provide proper gauges prior to start of work for approval including cost and conveyance of all materials, scaffolding at all heights, labour charges and all operational,		860SQM				

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						SGST	CGST	
		incidental charges etc., complete for finished item of work.						
13	312001783	Providing the following thickness <b>lath plaster/RCM Drop</b> at all heights and locations for vertical fins, facias, bands, drop\s, etc., consisting of cement-sand plaster of proportion 1:3, including finishing the exposed faces smooth, provision of wire mesh to reinforcement bars, necessary shuttering, surface preparations, etc., all complete and as per directions of the Engineer. The steel reinforcements shall be paid under reinforcement item. A) 40mm thick		15SQM				
14	312001784	Providing and applying two coats of <b>synthetic enamel paint</b> (Asian make) of approved shade at all locations of approved quality over all surfaces , including ,scaffolding ,cost &conveyance of all materials labor charges.		600SQM				
15	312001785	<b>TW DOOR FRAME</b> Providing& fixing of wood work in frames of doors, wrought framed and fixed in position made out of Second class teak wood including hold fasts, transportation labor		0.50CUM				

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						SGST	CGST	
		charges, filling gaps, dents etc. with appropriate wooden putty with one coat of primer and two coats synthetic enamel paint of two coats, with bitumen paint on the surface contact with brick works/concrete. The Rate is including cost and conveyance of all materials, labour charges and all operational, incidental charges etc., complete for finished item of work.						
16	312001786	<p><b>Providing &amp; Fixing of Armstrong Mineral Fibre Acoustical Suspended Ceiling System with Dune (Bevelled Tegular) Edge Tiles With Armstrong 15mm Exposed GRID.</b></p> <p>The tiles should have Humidity Resistance (RH) of 99 percentage, NRC 0.5, Light Reflectance ≥85%, Thermal Conductivity k 0.052 to 0.057 w/m K Colour White, Fire Performance UK Class 0 / Class 1 (BS 476 pt - 6 &amp;7) in module size of 600 x 600 x 16mm suitable for Green Building application, with Recycled content of 32%.</p> <p>The tile shall be laid on Armstrong Silhouette profile grid system with 15mm white flanges incorporating</p>		130SQM				

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		<p>a 6mm central reveal in white/black colour and with a web height of 45mm and a load carrying capacity of minimum 15.68 Kgs/M2 &amp; minimum pull out strength of 100 Kgs.. Silhouette, Main Runners &amp; Cross Tees to have mitred ends &amp; “birdsmouth” notches to provide mitred cruciform junctions. The T Sections have a Galvanizing of 90 grams per M2 and need to be installed with Suspension system of Armstrong make. .</p> <p>INSTALLATION: To comprise main runner spaced at 1200mm centres securely fixed to the structural soffit using Armstrong suspension system (specifications below) at 1200mm maximum centre. The First/Last Armstrong suspension system at the end of each main runner should not be greater than 450mm from the adjacent wall.</p> <p>Flush fitting 1200mm long cross tees to be interlocked between main runners at 600mm centre to form 1200 x 600 mm module. Cut cross tees longer than 600mm require independent support. 600 x 600mm</p>						

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		<p>module to be formed by fitting 600mm long flush fitting cross tees centrally between the 1200 mm cross tees.</p> <p>Perimeter trim to be Armstrong wall angles of size 3000x19x19mm, secured to walls at 450 mm maximum centres.</p>						
17	312001787	<p>Supplying and laying RCC non - pressure pipes of 450mm diameters including Collars jointed with stiff mixture of cement mortar in 1;2 proportion and aligning , jointing etc, to correct slopes including all bye works complete as per specifications, and directions of the Engineer.The Rate is including cost and conveyance of all materials, sales and other taxes on all materials, labour charges and all operational,incidental charges etc., complete for finished item of work.</p> <p>a)300mm dia(NP-3 Class pipes)</p>		10RM				
18	312001788	<p><b><u>Granite flooring for Stair case and toe wall top</u></b></p> <p>Providing &amp; laying polished granite stone flooring using 18 mm thick machine cut &amp; mirror polished granite treads/risers/sills/ledges 300-450mm wide in one or two</p>		55SQM				

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		pieces (each piece not less than 6' length), square cut nosing slightly softened by rounded / chamfered as required in one piece or long length as directed, set in cement mortar (1:4) and in average thickness of 30mm fixed with cement float ,including grooves, etc. complete as directed .The Rate is including cost and conveyance of all materials, labour charges and all operational, incidental charges etc., complete for finished item of work. Base price of stone to be considered at Rs.2000/sq. mt						
19	312001789	<b><u>Granite flooring</u></b> Providing & laying of approved quality granite leather finish granite stone flooring/mirror polished granite flooring using 18 mm thick as directed by enginner in –incharge for selection of granite, in cement mortar (1:4) and in average thickness of 30mm fixed with cement float ,including grooves etc. complete as directed .The Rate is including cost and conveyance of all materials, labour charges and all operational, incidental charges etc., complete		645SQM				

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						SGST	CGST	
		for finished item of work. Base price of stone to be considered at Rs.2000/sq. mt. Granite stone size should be not less than 1500x750mm,						
20	312001790	Providing and laying of <b>Ceramic wall tiles</b> (Premium quality) For wall Dadoing ceramic tile of approved color ,size of tile and shade shall be used as directed by in charge. The tiles shall be laid on 12mm thick cement mortar bed for the dado, with joints properly aligned, filled with white cement slurry with matching pigment grouting , at all levels and locations to different patterns as per specifications, and direction of the Engineer all complete (glossy or mat finish and size of tiles as required). Tiles shall be beveled at the vertical corner joints and horizontal edge joints. Top of skirting/dado shall be finished smooth to line and level. Tiles size should be not less than - 600x300mm		600SQM				

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						SGST	CGST	
21	312001791	Providing and laying 300x300x8.5 to 9.0 mm thick matt finished/ antiskid Ceramic floor and dado tiles (premium quality) of approved color and shade in Toilet flooring. For wall Dadoing ceramic tile of approved color and shade shall be used. The tiles shall be laid on 12mm thick cement mortar bed for the dado and 25 mm thick for the floor with a C.M of mix 1:3, with joints properly aligned, filled with white cement slurry with matching pigment, at all levels and locations to different patterns as per specifications, and direction of the Engineer all complete (glossy or mat finish as required). Tiles shall be beveled / PVC corner beading at the vertical corner joints and horizontal edge joints. Top of skirting/dado shall be finished smooth to line and level. The rate is including cost and conveyance of all materials, labour charges and all operational, incidental charges etc., complete for finished item of work.		200SQM				
22	312001792	Providing and applying <b>3 coats of Premium emulsion paint of Asain</b> make (colour shades as per Owner)		1200 SQM				

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						SGST	CGST	
		over a coat of primer as per specifications of the manufacturer. The rate shall include the cost of the priming coat and putty of <b>Birla make, "Wallcare", White cement based putty or equivalent</b> & two coats of painting with necessary surface preparation. Including old surface scrapping, brushing, removing paint marks over windows, doors, flooring etc. complete.						
23	312001793	Painting with weather proof emulsion paint, water based, modified acrylic paint of <b>Apex Ultima</b> (Asian make ) to exterior faces of new walls with three coats of approved make shade and color including self-prime coat including cost and conveyance of materials like paint to site including cost of brushes, scaffolding charges, lift charges and labor charges such as preparing the wall, applying three coats of paint etc. complete for finished item of work in all floors, including old surface		2000 SQM				
24	312001794	Supply and fixing fully glazed aluminum with powder coated, floor spring type <b>Door(Single or</b>		16SQM				

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		<p><b>Double shutter</b>) as per approved drawings using standard aluminum outer door frame section of size 101.6 x 44.75 x 2.00mm thick and shutters styles section of size 85 x 44.5 x 2.0mm thick, bottom rail section of size 150 x 44.45 x 2.2mm thick and top, lock rails section of size 85 x 44.5 x 2.0mm thick using 5mm thick coloured glass/ partly glazed and shall be provided with floor spring (1No. per each shutter), including all fittings such as handles, push and pull plates, fitted with suitable aluminum glazing clips and EPDM gasket, including all hardware fittings ,like butt hinges, tower bolts, door stoppers etc., aluminum clips,6 lever GODREJ lock, bolts, EPDM gaskets etc., as per specifications, and directions of Engineer. The measurement for payments shall be for the full opening including frames. Use Aluminum section Jindal /Indal makes only. Contractor to verify the lock rail size with reference to the approved 6 lever godrej lock and submit the door shop drawings</p>						

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						SGST	CGST	
		for approval.						
25	312001795	Supply and fixing fully glazed aluminum powder coated hinged/fixed type <b>Ventilators</b> as per approved drawings using standard aluminum outer frame section of size 40 x 31.5 x 1.2mm thick (0.549 Kg per MT) and central mullion of size 40 x 31.5 x 1.2 mm and shutters styles made of anodized aluminum section 40 x 31.5 x 1.2mm thick and rails section of size 40 x 31.5 x 1.2mm thick using 5mm thick coloured glass fitted with suitable aluminum glazing clips and EPDM Gasket including supplying and fixing butt hinges (2 Nos. per shutter), handles(1 No per shutter) including cost and conveyance to site of Aluminum sections glass, rubber beading, fixtures etc., including labor charges for manufacturing window, fixing in position using wooden blocks and sheet metal screws etc, complete for finished item of work, (Aluminum sections used shall be		23SQM				

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						SGST	CGST	
		standard make confirming to IS 1948-1961 and as approved by Engineer and fixtures shall be of ISI marked )						
26	312001796	<p><b>Solid core flush door laminated on both sides</b></p> <p>Providing and fixing 35mm thk Solid core BWP (Boiling water proof) grade of <b>Greenply Optima Red or equivalent</b> approved make , made out of specifically selected &amp; well-seasoned hardwood timber. The solid Block Board core to be framed with seasoned hardwood battens and strengthened by a layer of cross-bands with face veneer on both side of the core. The flush doors shall conform to IS-2202 (part I). The flush door shall have 12mm TW lipping all around, polished finish at edge, color to match door laminate. Both faces of the door shall be finished with 1mm thk laminate (Factory pressed) of sun mica, formica, greenlam, color as approved by Consultant/owner, and provide 6mm thk glazing view panel of size 8"x2'0" above the handle. with all necessary hardware fittings</p> <p>1) Hinges (4 nos) of size</p>		16SQM				

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						SGST	CGST		
		<p>100x75x3 with SS304 satin finish (Model no- HG1153 SS-Dorset or equivalent Godrej make), mortice lock of Godrej make (Model No.8838) or equivalent dorset make, Euro profile indus handle set (2 nos) of SS304 satin finish (Model no- 9225 of Godrej ,make )or equivalent dorset , Heavy duty door closer of Godrej make Model No.7849 or equivalent dorset make, 230mm Tower bolts (1 nos) with SS304 satin finish (Model no-8577) , Door stoppers (1 nos) satin finish (Model no- 8830) etc. as required . complete</p> <p><b>Manufacturer of Solid flush door – Kalpataru Doors or equivalent equivalent above specification matching with the manufacture specification</b></p> <p><b>Note: before procuring above item contractor must take permission from consultant/Owner.</b></p>							
27	312001797	Decorative PVC doors Supplying and fixing of <b>35mm thick Solid routed decorative PVC laminated doors</b> as per ISI IS: 2202 (part 1) 1999 Flush doors		4.20 SQM					

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		<p>Solid core, Finger jointed style &amp; rail vacuumed pressed, chemically treated borer free (VPT), hot pressed BWP Grade bonded with Phenol Formaldehyde Resin. Solid Routed and laminated with 0.35mm thk, UV coated, Decorative PVC sheets (both side) as per IS 2202 with approved shades of PVC by Consultant/Owner. The hardware includes 1 Hinges (4 nos make dorset model NO.HG1153 SS or equivalent Godrej make of size 100x75x3 with SS304 satin finish ,Door handle (2nos) of 150mm with SS304 satin finish, Aldrop (1 nos) of size 200x16mm with SS304 satin finish (Model no 8539) and 150mm Tower bolts (1 nos) with SS304 satin finish (Model no 8577) Godrej/Dorset make complete. <b>Manufacturer of door Kalpataru Doors or equivalent above specification matching with the manufacture specification .</b></p> <p><b>Note: Note: before procuring above item contractor must take permission from consultant/Owner.</b></p>						

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28	312001798	DOMAL SLIDING WINDOWS ON THREE TRACK SECTIONS WITH S.S MESH: Providing and fixing 40microns pure polyester coated aluminum Domal aluminum sliding windows using three track section Agarvanshi Alluminium Ltd. or equivalent Sections No: 3127 of dimension 126 X 36.5 X 1.6 mm thick, shutter sections of Section No: 3122 of dimension 27 X 65 X 1.5 mm thick, inter lock strip of section No: 3119 and for fixed using Jindal section No: 2431, with two shutters of 5.5 mm thick toughened tinted glass one shutter with S.S Mesh from outside for the cover the whole window, EPDM gaskets, locking arrangements including all quality accessories and installation at site. The Rate is including cost and conveyance of all materials, labour charges and all operational, incidental charges etc., complete for finished item of work.		60SQM				
29	312001799	<b>Heavy Duty SS railing system-2MM 14GUAGE</b> Providing and fixing modular Heavy duty Stainless steel (grade SS 304) railing system of 42 inches		20RM				

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						SGST	CGST	
		high consisting of 1.5 inch diameter hand rail and assist rail. The maximum post spacing to be at every third step. The finish to be #6 (380 Grit) Brushed Satin. The entire system to be engineered and installed by the manufacturer. Basis of Design VIVA / V-RAIL specification Railings Model - CUBE Multiline						
30	312001800	<b>Heavy Duty SS railing system-2MM 14GUAGE</b> Providing and fixing modular Heavy duty Stainless steel (grade SS 304) railing system of 42 inches high consisting of 1.5 inch diameter hand rail and assist rail. The maximum post spacing to be at every third step. The finish to be #6 (380 Grit) Brushed Satin. The entire system to be engineered and installed by the manufacturer. Basis of Design – VIVA / V-RAIL specification Railings Model – Guard Rail		45RM				
31	312001801	<b>Wooden beading with design</b> Providing and fixing of 35mm x 12mm Teak wood design beading (contractor has to provide samples for approval by Consultant/Owner)		40RM				

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						SGST	CGST	
		to be fixed at door frame and masonry junction including painting to match door frame.						
32	312001802	Supply and Fixing of full form the following building name as 1. CANTEEN BUILDING The above building in English and hindi made out of first quality 304 stainless steel sheets(Laser Cut Letters) of size 300mmX300mm (the width of letter will be chosen based on simulation) as per given specifications and drawing details. The contractor to submit all details with 3D view and simulation system for approval by ARCI.		1LOT				
33	312001803	Providing and fixing pre-coated galvanised iron profile sheets at a height of 4.5mts including scaffolding, Ridges plain(500-600mm) (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should		30SQM				

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		have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. The Rate is including cost and conveyance of all materials, labour charges and all operational, incidental charges etc., complete for finished item of work.						
34	312001804	<b>Controlled filling / back filling(with available earth)</b> with mechanical compaction to achieve dry density in all positions under floors, foundations and other places as required by the engineer <b>with available earth</b> from spoil heaps at all heights / depths including transporting, depositing, compacting, dressing, trimming etc., complete as desired in layers		10CUM				

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						SGST	CGST	
		not exceeding 150mm including watering, consolidating by mechanical means as per specifications and instructions of the engineer. (The theoretical volume multiplied by 0.95 shall be considered for payment.). a) with available soil from the stock piles within a lead of 1 Km.						
35	312001805	<b>Controlled filling / back filling (brought from out side)</b> with mechanical compaction to achieve dry density in all positions under floors, foundations and other places as required by the engineer with approved earth or approved fill material brought from outside, approved by the engineer, at all heights / depths including transporting, depositing, compacting, dressing, trimming etc., complete as desired in layers not exceeding 150mm including watering, consolidating by mechanical means as per specifications and instructions of the engineer. (The theoretical volume multiplied by 0.95 shall be considered for payment.). a) with the soil of approved quality brought		20CUM				

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						SGST	CGST	
		from outside.						
36	312001806	Providing and fixing white glazed vitreous china “ <b>Floor mounted coupled type water closet (EWC-Parryware make, model-Niagara-C0262,C0708)</b> of superior quality, single trap symphonic pattern ,P' or 'S' trap, Dual Flush system, with cistern capacity as per manufacturer, lid, Anti-microbial seat cover, fittings, closet etc. ,CP brass bar hinges, screws, bolts, rubber, buffers 15mm dia CP inlet water pipe connection and concealed push type jaguar make CP brass stop cock; fixing EWC to floor with necessary TW block & brass screws, all complete as per directions of the Engineer.		1NO				
37	312001807	Supply & Fixing of <b>Bibcock cum Health Faucet</b> with 1m long tube and wall hook of Jaguar Continental series, Chrome Finish for complete finish item of work.		1NO				
38	312001808	Supply, fitting and fixing glazed vitreous china <b>OVAL Under Counter Wash Basin</b> of superior		4NOS				

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						SGST	CGST	
		quality of size 550 X 400 mm ( <b>Parryware make</b> , Model No.CQ 41K 46) having single or double holes with 32 mm CP brass waste fittings, 32 mm CP brass bottle trap, 15 mm PVC inlet water pipe connection, painted CI brackets with chain and rubber plug etc. CP jaguar make push type pillar tap (Cat No.031), CP stop cock , (Prismatic sink cock of jaguar make, AQT3057N) , including all necessary fittings etc complete						
39	312001809	Providing and fixing white glazed vitreous china <b>Urinal</b> , front lipped of superior quality <b>PARRYWARE make-Model-New Magnum 00575</b> , Z-bracket fixing, Built-in ceramic spreader & waste coupling, push type CP flush valve(Jaguar continental series PRS CHRO77, CP grating etc., cp push type jaguar make continental series stopcocks, Concealed outlet and installation, and Necessary Fittings etc all as per directions of the Engineer(partitions excluded):		2NOS				
40	312001810	Supplying and fixing of 18-20 mm <b>Granite partitions</b> of size 4' 0" x 2'		1NO				

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						SGST	CGST	
		0" for urinals including rounding edges, three sides, fixing ,polishing ,etc. complete for finished item of work						
41	312001811	Supply & Fixing of <b>CP brass Concealed stopcock (Jaguar continental series)</b> of standard design and of approved make confirming to ISI.		7NOS				
42	312001812	Supply & Fixing of <b>CP brass Angle stopcock (Jaguar continental series)</b> of standard design and of approved make confirming to ISI.		2NOS				
43	312001813	Providing & fixing in position approved make full turn type, 15mm <b>CP brass bib tap (Long body)</b> with heavy casted CP brass wall flange. (Jaguar continental series)		7NOS				
44	312001814	Supply & Fixing of <b>Toilet paper holder</b> with paper of standard make for complete finish item of work.		1NO				
45	312001815	Supplying, fitting and laying <b>G.I pipes</b> of Medium quality ('B class) of Indian Tube Company / Tata/ Jindal with all necessary fittings such as bends, tees, elbows, reducers, unions, nipples, plugs, clamps, fixtures, etc., including		20RM				

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						SGST	CGST	
		necessary earthwork, backfilling, painting, etc., complete as per specification (including concealing in walls by chasing walls and floors) A) 20mm nominal bore						
46	312001816	Supplying, fitting and laying <b>G.I pipes</b> of Medium quality ('B class) of Indian Tube Company / Tata/ Jindal with all necessary fittings such as bends, tees, elbows, reducers, unions, nipples, plugs, clamps, fixtures, etc., including necessary earthwork, backfilling, painting, etc., complete as per specification (including concealing in walls by chasing walls and floors) A) 25mm nominal bore		120RM				
47	312001817	Supplying, fitting and fixing superior quality <b>20mm dia Ball valve /butter fly valve (full way)</b> of "LEADER"/ hudco make or equivalent with ISI-mark		5NOS				
48	312001818	Supplying, fitting and fixing superior <b>quality 25mm dia Ball valve /butter fly valve (full way)</b> of "LEADER"/hudco make or		5NOS				

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						SGST	CGST	
		equivalent with ISI-mark						
49	312001819	Providing box type <b>half-round white glazed channels</b> 100mm size with dead and outlet ends of approved make, set in cement mortar 1:3 and joints finished with white cement.		1.5RM				
50	312001820	Providing and fixing 8mm thk <b>Mirror of Saint Gobain</b> make with beveling and edge slope cutting, polishing fixed to the wall using stainless steel studs of approved make. <b>Size: 0.90mx0.60m</b>		5NOS				
51	312001821	Providing and fixing 100 x 75mm <b>HSI floor/Nahani trap</b> with CP hinged heavy brass grating to be fixed in PCC M15C and made water tight.		25NOS				
52	312001822	Providing SW yard <b>gully trap</b> 150 x 100mm with CI grating 150 x 150mm and water-tight light weight CI covers conforming to IS: 1726 of size 300 x 300mm including half-brick masonry in CM (1:4) plastered neatly with CM (1:4) on both faces, 100mm thick PCC bed of mark M-10C, necessary excavation, complete as per		2NOS				

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						SGST	CGST	
		direction of the Engineer.						
53	312001823	Providing, fitting and laying <b>C.I soil and waste pipe</b> including vent pipe with all required C.I specials, plugs, clamps etc., of approved Neco make(red color) confirming to IS 3989 , including, excavation & back filling, jointing with drip seal all complete as per specifications and direction of Engineer. a) 75mm dia		20RM				
54	312001824	Providing, fitting and laying <b>C.I soil and waste pipe</b> including vent pipe with all required C.I specials, plugs, clamps etc., of approved Neco make(red color) confirming to IS 3989 , including, excavation & back filling, jointing with drip seal all complete as per specifications and direction of Engineer. a) 100mm dia		50RM				
55	312001825	Providing, laying and jointing <b>stone ware salt-glazed pipe</b> in CM 1:2 including bedding in PCC mark M-10c,necessary excavation, & backfilling complete as per specification and depth up to 1.5m		5RM				

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						SGST	CGST	
		a) 150mm dia						
56	312001826	Providing, laying and jointing <b>stone ware salt-glazed pipe</b> in CM 1:2 including bedding in PCC mark M-10c, necessary excavation, & backfilling complete as per specification and depth up to 1.5m a) 200mm dia		20RM				
57	312001827	Constructing 914.4 mm x 457.2 mm (3'0"x1'6") brick in CM 1:6 prop. Masonry. Inspection chamber upto 914.4 mm (3'0") and fitted with light weight 914.4 mm x 457.2 mm (3'0"x1'6") C.I frame and cover of 40 Kg including cost and conveyance of all materials like cement, sand, bricks, water etc., to site, cost of seigniorage charges on all materials and all incidental and operational, labour charges like mixing cement mortar, constructing masonry, lift charges, curing, overheads & contractors profit etc., complete for finished item of work as per Standard specification		8NOS				
58	312001828	Providing and fixing of polyethylene water storage <b>sintex tank of Three layer white colour</b> in required capacities cylindrical		1NO				

S. NO	ARCI ITEM CODE	DESCRIPTION	GST-HSN/SAC NO	QTY	BASIC RATE PER UNIT IN RS	GST		TOTAL AMOUNT Qty X Basic Rate +GST
						SGST	CGST	
		with top closed top SINTEX(each 1000 lts tanks with necessary scours and over flow Gi pipes ,GI INLET AND OUT LET CONNECTIONS , FLOAT VALVE , all of size 25mm hoisting , fixing , testing , including foundation and necessary material etc						
59	312001829	Construction of <b>soak-pit</b> of size 1500mm dia and 2500mm depth conforming to IS:2470 (Part-I) and as per directions of the Engineer, including all materials, labor, excavation, backfilling, brick bats, bamboo mat, and other bye-works, complete		1NO				
60	312001830	Supplying and fixing in position best quality precast RCC septic tank both side closing, internal partitions, opening with manhole with covers, of approved make (IHP or equivalent) with all necessary excavation, fittings and accessories, complete, of the following sizes: a) 800mm dia and 2500mm long.		1NO				

S. NO	ARCI ITEM CODE	DESCRIPTION	GST-HSN/SAC NO	QTY	BASIC RATE PER UNIT IN RS	GST		TOTAL AMOUNT Qty X Basic Rate +GST
						SGST	CGST	
61	312001831	Constructing a grease separator tank of overall inner dimensions of 1200x1200x900., including excavation, construction in brick masonry work, water proofing, providing inlet, outlet, aluminium grating, cast iron cover etc., Connecting the kitchen drain inlet and overflow outlet is inclusive in the scope.		1NO				
62	312001832	P/F of Jaquar brand pressmatic model water faucets to hand wash trough, and connecting to water inlet by flexible pipes.		16NOS				
66	312001833	Hand wash trough Overall dimensions of 3000x450x450. To be fabricated of 16 swg. At the top, the opening width to be 450 mm, with a sink top of 75mm provided for fixing the faucet. The drop to be sloping towards wall side at an angle of 60 degrees. Bottom of the trough to have a removable perforated scum gutter of 25 mm deep, and to have three numbers 38 dia ss threaded drain gratings to connect to floor drain. The rear of the trough to		2NOS				

S. NO	ARCI ITEM CODE	DESCRIPTION	GST-HSN/SAC NO	QTY	BASIC RATE PER UNIT IN RS	GST		TOTAL AMOUNT Qty X Basic Rate +GST
						SGST	CGST	
		have fixing provision, and the unit shall be fixed to wall at specified location. All welding to be so done to make the trough free of leaks. Sufficient number of holes to be drilled on the sink top to fix faucets as specified						
67	312001834	<p>Drain grating Single skin removable drain grating, made of 16 swg. Ss, with perforations of 15 mm wide, spaced 25 mm apart from each other, laser cut to a uniform finish. Width of grating shall be 150 mm, with a rest of 25 mm. Length to be 1200 mm</p> 		12NOS				
68	312001835	<p>Drain collection and diversion chamber Overall dimensions of outer frame to be 600x600x100 mm deep. Unit to be made as a two part system, with outer frame to be made of 16 swg ss. Sheet, machine cut and</p>		6NOS				

S. NO	ARCI ITEM CODE	DESCRIPTION	GST-HSN/SAC NO	QTY	BASIC RATE PER UNIT IN RS	GST		TOTAL AMOUNT Qty X Basic Rate +GST
						SGST	CGST	
		<p>machine bent for accuracy. The removable part to be made of 3 mm thick ss 304 grade sheet of 25 mm thickness, with sections spaced at 25 mm apart, and cross bracings at 150 mm, vertically oriented. The outer frame to be so designed to allow proper resting and easy removing of the inner grating.</p> 						
69	312001836	<p>Hose reel T&amp;S Brass brand, closed hose reel housing, epoxy coated steel, outlet device model No. MV-2522, 15.24 meter hose length, 3/8" diameter, epoxy coated reel model No. B-7242-C05, (3.7GPM/14LPM), with swing bracket model No. G016637-45 (epoxy coated steel), and a water appliance connector model No.</p>		1NO				

S. NO	ARCI ITEM CODE	DESCRIPTION	GST-HSN/SAC NO	QTY	BASIC RATE PER UNIT IN RS	GST		TOTAL AMOUNT Qty X Basic Rate +GST
						SGST	CGST	
		HW-2 series of 2 meter length. 						
70	312001837	<b>Demolish existing flooring</b> Remove existing ceramic tile / any other type of flooring and disposal of unserviceable material including sand bed within 1.0KM lead as per direction of engineer-in-charge. Prepare the surface to receive new floor finish direction of engineer-in-charge.		500SQM				
71	312001838	<b>Demolish existing dado</b> Remove existing ceramic tile / any other type of dado and disposal of unserviceable material including sand bed within 1.0KM lead as per direction of engineer-in-charge.		400SQM				

S. NO	ARCI ITEM CODE	DESCRIPTION	GST-HSN/SAC NO	QTY	BASIC RATE PER UNIT IN RS	GST		TOTAL AMOUNT Qty X Basic Rate +GST
						SGST	CGST	
		Prepare the surface to receive new floor finish direction of engineer-in-charge.						
72	312001839	Providing and laying M40 grade with heavy duty designer and reflective Interlocking /paver blocks /tiles 60 mm thick of approved color, shade and shape laid over sand bed of 50 mm thick. The Rate includes duly leveling the existing ground, cost and conveyance of all materials, labour charges and all operational, incidental charges etc., complete for finished item of work.(and locations to different patterns as per Specifications, and direction of the Engineer all complete )		100SQM				
73	312001840	Providing 50mm Dia P.V.C. pipe 2.5mm thick 4 Kg/cm <sup>2</sup> ISI marked, including cost of necessary P.V.C. Bends, shoes, iron clamps and all other accessories and fixing in position including cost and conveyance of all materials to site, sales and other taxes, operational, incidental etc., including lift charges and labor charges for fixing at site etc., complete for finished		10RM				

S. NO	ARCI ITEM CODE	DESCRIPTION	GST-HSN/SAC NO	QTY	BASIC RATE PER UNIT IN RS	GST		TOTAL AMOUNT Qty X Basic Rate +GST
						SGST	CGST	
		item of work in all floors (APSS No.1328) including clamps, including supply & fixing of jelly also etc complete. The Rate is including cost and conveyance of all materials, labour charges and all operational, incidental charges etc., complete for finished item of work.						
74	312001841	Providing 110mm Dia P.V.C. pipe 2.5mm thick 4 Kg/cm <sup>2</sup> ISI marked, including cost of necessary P.V.C. Bends, shoes, iron clamps and all other accessories and fixing in position including cost and conveyance of all materials to site, sales and other taxes, operational, incidental etc., including lift charges and labor charges for fixing at site etc., complete for finished item of work in all floors (APSS No.1328) including clamps, including supply & fixing of jelly also etc complete. The Rate is including cost and conveyance of all materials, labour charges and all operational, incidental charges etc., complete for finished item of work.		10RM				
75	312001842	Providing 150mm Dia P.V.C.		12RM				

S. NO	ARCI ITEM CODE	DESCRIPTION	GST-HSN/SAC NO	QTY	BASIC RATE PER UNIT IN RS	GST		TOTAL AMOUNT Qty X Basic Rate +GST
						SGST	CGST	
		pipe 2.5mm thick 4 Kg/cm <sup>2</sup> ISI marked, including cost of necessary P.V.C. Bends, shoes, iron clamps and all other accessories and fixing in position including cost and conveyance of all materials to site, sales and other taxes, operational, incidental etc., including lift charges and labor charges for fixing at site etc., complete for finished item of work in all floors (APSS No.1328) including clamps, including supply & fixing of jelly also etc complete. The Rate is including cost and conveyance of all materials, labour charges and all operational, incidental charges etc., complete for finished item of work.						
76	312001843	Providing 40mm thick D.P.C over plinth with concrete of grade M-20D and mixing approved water proofing admixture with cement as per manufacturer's specifications, including necessary formwork/shuttering, one coat of hot bitumen of grade 80/100 over the top surface of DPC and all necessary by works complete all as per specifications and directed by		6SQM				

S. NO	ARCI ITEM CODE	DESCRIPTION	GST-HSN/ SAC NO	QTY	BASIC RATE PER UNIT IN RS	GST		TOTAL AMOUNT Qty X Basic Rate +GST
						SGST	CGST	
		the Engineer.						
77	312001844	Supply, fabricating and fixing of <b>welded steel wire mesh</b> /weld mesh (25x25xmm at 13 gauges) including two coats of synthetic enamel paint over primary coat, welding charges, labor charges etc. The structural steel framing required for this item will be measured separately in the fabrication of structural steel item		18SQM				
78	312001845	<b>Demolish existing PVC flooring</b> Remove existing PVC flooring and disposing unserviceable material up to 2kms lead as per direction of engineer-in-charge.		93SQM				
79	312001846	P/F of weather proof exterior floor tiles on the terrace, including scraping and preparation of surface, laying an appropriate bed of cement mortar and water proofing. Base price of tile to be considered at Rs.90/sft.		100SQM				
80	312001847	Removing of doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 1km lead		52NOS				

S. NO	ARCI ITEM CODE	DESCRIPTION	GST-HSN/ SAC NO	QTY	BASIC RATE PER UNIT IN RS	GST		TOTAL AMOUNT Qty X Basic Rate +GST
						SGST	CGST	
81	312001848	Removing of ventilation system ducting including labour charges and stacking within 1km lead		1JOB				
82	312001849	Supplying, fitting and fixing white glazed vitreous china wash basin with pedestal of superior quality of size 550 x 400mm(Hindueare/parry ware/cera ) make with ISI mark) having single or double holes with 32mm CP brass waste fittings, 32mm Cpbass bottle trap, 15mm PVC inlet water pipe connection, painted C I brackets with chain and rubber plug etc., Push type Jaguar make piller tap, cp stop cock, including all necessary fittings etc complete.		1NO				
83	312001850	Demolishing/Removing of existing toilets/wash rooms totally including concealed water supply pipes, sewage pipes, fixtures and fittings etc., totally in all respects as per the guidance of engineer incarge for complete of work.		3NOS				
84	312001851	Providing &fixing 18 mm thick polished Granite slabs of approved shade at wash basin counter, including cutting, rounding of the edges, providing 75 mm high apron with half round moulding,		3SQM				

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						SGST	CGST	
		finishing, other necessary by-works all complete as per direction of the engineer .The granite slab shall be of single piece. The Rate is including cost and conveyance of all materials, labour charges and all operational, incidental charges etc., complete for finished item of work.(While selecting the granite 40% of the quoted price will be treated towards labour and material for laying)						
85	312001852	Compact Poly carbonate sheet, UV treated ,4mm thick ,conforming to following specification Light transmission of >85% under ASTM D1003 method. Water absorption for 24hours in 23degrees centigrade < 0.2% under ASTM D 570 method Tensile strength of 9500(670)psi/kgf/cm2 under ASTM D 638 method		50SQM				
		<b>Total Civil Works</b>						

**ELECTRICAL WORKS:**

S. NO	ARCI ITEM CODE	DESCRIPTION	GST-HSN/SAC NO	QTY	BASIC RATE PER UNIT IN RS	GST		TOTAL AMOUNT Qty X Basic Rate +GST
						SGST	CGST	
1	312002327	<p><b>Surface Conduit(25mm Dia):-</b>  Supply,Laying, Installation of 25mm dia 2.0mm thick rigid PVC conduit pipe with all required accessories such as long bends, junction boxes, GI base saddle, Fischer Make nylon grip gutti (imported make),SS screws length shall be 1" to 1.5" ,Thermacoal, insulation Tapes,3 no's of GI base saddles for every one meter length should be installed, to draw the circuit wiring.The scope includes minor civil works such as entry of 25mm pvc pipe surface through walls and finishing the wall to the original condition, after laying the pipe includes painting. Erection should be carried out as per general technical specifications and as directed by ARCI officials.  MAKE:PRECISION-LHSFT / AVONPLAST-BLACK COLOR  Note:Drill machine should be used to make through and through hole in the walls.</p>		100RM				
2	312002328	<p><b>Concealed Conduit(25mm Dia):-</b>  Supply,Laying, Installation of</p>		500RM				

S. NO	ARCI ITEM CODE	DESCRIPTION	GST-HSN/ SAC NO	QTY	BASIC RATE PER UNIT IN RS	GST		TOTAL AMOUNT Qty X Basic Rate +GST
						SGST	CGST	
		25mm dia 2.0mm thick rigid PVC conduit pipe with all required accessories such as long bends, junction boxes, Thermacoal, insulation Tapes etc., as per site requirement, to draw the circuit wiring. The complete scope includes minor civil works such as entry of 25mm pvc pipe, pipe shall be laid in wall (concealed type) after laying the pipe includes SS wire mesh and GI nails, civil plastering & lappam, painting and Make to good as original condition. Erection should be carried out as per general technical specifications and as directed by ARCI officials. MAKE:PRECISION -LHSFT/ AVONPLAST-BLACK COLOR Note: The cutting of walls should be done with grove cutting machine.						
3	3123120023	<b>Concealed/Surface Conduit(40mm Dia) :-</b> Supply,Laying, Installation of 40mm dia 2.0mm thick rigid PVC conduit pipe with all required accessories such as long bends, junction boxes, Thermacoal, insulation Tapes to draw the cables		<b>100RM</b>				

S. NO	ARCI ITEM CODE	DESCRIPTION	GST-HSN/ SAC NO	QTY	BASIC RATE PER UNIT IN RS	GST		TOTAL AMOUNT Qty X Basic Rate +GST
						SGST	CGST	
		required for external/internal lighting points in conduits.The complete scope includes minor civil works such as entry of 40mm pvc pipe concealed through walls and finishing the walls to the original condition after laying the pipe includes lappam & painting. Erection should be carried out as per technical specifications and as directed by ARC I officials. MAKE:PRECISION-LHSFT / AVONPLAST-BLACK COLOR						
4	312002331	<b>2.5Sqmm Point Wiring:-</b> Supply, Installation, Testing and Commissioning of circuit wiring to be drawn from power/Lighting distribution board to <ul style="list-style-type: none"> <li>• Switch Board (SB) of the circuit - 3runs of 2.5sqmm PVC insulated copper conductor flexible wires (FRLS) to be drawn separately from LDB.</li> <li>• For 6A power sockets 3runs of 2.5sqmm PVC insulated copper conductor flexible wires (FRLS) to be drawn separately from PLDB,</li> </ul>		<b>250RM</b>				

S. NO	ARCI ITEM CODE	DESCRIPTION	GST-HSN/SAC NO	QTY	BASIC RATE PER UNIT IN RS	GST		TOTAL AMOUNT Qty X Basic Rate +GST	
						SGST	CGST		
		<p>PI Note:</p> <p>1. Maximum 8no of 2.5Sq.mm size wires are allowed in a single 25mm dia pvc pipe, if more than 8nos of wires are required to run, one more 25mm dia pvc pipe should be laid.</p> <p>2. Measurements will be taken per meter as per site installation per run of three wires (Phase, Neutral &amp; Earth).</p> <p>3. Maximum loop of 4 no's of 6A power sockets for phase,neutral and earthing.</p> <p>4. Finolex/ Anchor/ L&amp;T- Makes, fire retardant low smoke type wires are accepted.</p> <p>5. Color code shall be as per IS code.</p> <p>6. Erection should be carried out as per general technical specifications and as directed by ARCI officials.</p> <p>7. Joints of wires are not allowed between Distribution boards to the Switch boards/6A power sockets.</p>							
5	312002332	<b>4.0Sqmm Point Wiring:-</b> Supply, Installation, Testing and Commissioning of circuit wiring to be drawn from power distribution board to power points-3runs of 4sqmm PVC insulated copper		<b>200RM</b>					

S. NO	ARCI ITEM CODE	DESCRIPTION	GST-HSN/SAC NO	QTY	BASIC RATE PER UNIT IN RS	GST		TOTAL AMOUNT Qty X Basic Rate +GST	
						SGST	CGST		
		<p>conductor flexible wires (FRLS) for AC points/16A sockets/20A sockets.</p> <p>PI Note:</p> <ol style="list-style-type: none"> <li>1. Maximum 6no of 4.0Sq.mm size wires are allowed in a single 25mm dia pvc pipe, if more than 6nos of wires are required to run, one more 25mm dia pvc pipe should be laid.</li> <li>2. Measurements will be taken per meter as per site installation per run of three wires (Phase, Neutral &amp; Earth).</li> <li>3. Finolex/ Anchor/ L&amp;T- Makes, fire retardant low smoke type wires are accepted.</li> <li>4. Color code shall be as per IS code.</li> <li>5. Erection should be carried out as per general technical specifications and as directed by ARCI officials.</li> <li>6. Joints of wires are not allowed between Distribution boards to the power sockets.</li> </ol>							
6	312002333	<p><b>Switches:-</b> Supply,Installation,Testing, Commissioning along with necessary accessories of switch - 6A-SP-1way 1module, 250V, 50 HZ, AC.</p>		146NOS					

S. NO	ARCI ITEM CODE	DESCRIPTION	GST-HSN/SAC NO	QTY	BASIC RATE PER UNIT IN RS	GST		TOTAL AMOUNT Qty X Basic Rate +GST
						SGST	CGST	
		Makes :Legrand(Model no: 5734 00)/schneider.						
7	312002334	<b>Switches(2Way):-</b> Supply,Installation,Testing, Commissioning along with necessary accessories of switch - 6A-SP-2way 1module, 250V, 50 HZ, AC.Makes :Legrand(Model no: 5734 02)/schneider.		2NOS				
8	312002335	<b>6A Socket:-</b> Supply,Installation,Testing ,Commissioning along with necessary accessories, socket shuttered - 6A-2/3 pin-universal india-2 module,250V, 50 HZ, AC. Makes : Legrand(model no: 5734 70)/schneider		35NOS				
9	312002336	<b>16A Switch and Socket :-</b> Supply,Installation,Testing, Commissioning along with necessary accessories for socket shuttered-6/16A-3 pin-indian-2 module and switch - 20A-SP-1 way-1 module, 230V 50 HZ, AC. Makes: Legrand(model no: 5734 71), (Code 5734 10 )/ (schneider)		10NOS				
10	312002340	<b>AC starter :-</b> Supply,Installation,Testing, Commissioning along with necessary		4NOS				

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						SGST	CGST	
		accessories 25A motor starter 2 module, 250V, 50 HZ, AC, modular box . Makes: Legrand(model no: 6730 31)/ schneider)						
11	312002341	<b>Ceiling rose :-</b> Supply,Fixing,Testing of 3-pin ceiling rose for tapping power to light, fan points and erection should be as directed by per ARCI officials. Makes : Anchor / GM		105NOS				
12	312002342	<b>2 Module metal flush box and cover plate with frame:</b> Supply, Installation & Commissioning of metal flush mounting box - 2 module, along with modular base & cover plate with frame for modular switches in recess to mount number of switches/ sockets as required at site/directed by ARCI officials. Provisions should be made to enter the 25mm dia PVC conduits as per the site requirement. Earthing point provision to be made inside the box.Location as shown in drawings/ as directed by ARCI officials and technical specifications. Make: Legrand - (6890 07, 5757 10)/ schneider.		20NOS				

S. NO	ARCI ITEM CODE	DESCRIPTION	GST-HSN/ SAC NO	QTY	BASIC RATE PER UNIT IN RS	GST		TOTAL AMOUNT Qty X Basic Rate +GST
						SGST	CGST	
13	312002343	<b>3 Module metal flush box and cover plate with frame:</b> Supply, Installation & Commissioning of metal flush mounting box - 3 module, along with modular base & cover plate with frame for modular switches in recess to mount number of switches/ sockets as required at site/directed by ARCI officials. Provisions should be made to enter the 25mm dia PVC conduits as per the site requirement. Earthing point provision to be made inside the box. Location as shown in drawings/ as directed by ARCI officials and technical specifications. Make: Legrand - (6890 08, 5757 20)/ schneider.		10NOS				
14	312002344	<b>4 Module metal flush box and cover plate with frame:</b> Supply, Installation & Commissioning of metal flush mounting box - 4 module, along with modular base & cover plate with frame for modular switches in recess to mount number of switches/ sockets as required at site/directed by ARCI officials. Provisions should be made to enter the 25mm dia PVC conduits as per		5NOS				

S. NO	ARCI ITEM CODE	DESCRIPTION	GST-HSN/SAC NO	QTY	BASIC RATE PER UNIT IN RS	GST		TOTAL AMOUNT Qty X Basic Rate +GST
						SGST	CGST	
		the site requirement. Earthing point provision to be made inside the box.Location as shown in drawings/ as directed by ARCI officials and technical specifications Make: Legrand - (6890 09, 5757 30)/ schneider.						
15	312002345	<b>6 Module metal flush box and cover plate with frame:</b> Supply, Installation & Commissioning of metal flush mounting box - 6 module, along with modular base & cover plate with frame for modular switches in recess to mount number of switches/ sockets as required at site/directed by ARCI officials. Provisions should be made to enter the 25mm dia PVC conduits as per the site requirement. Earthing point provision to be made inside the box.Location as shown in drawings/ as directed by ARCI officials and technical specifications Make: Legrand - (6890 10, 5757 40)/ schneider.		9NOS				
16	312002346	<b>8 Module metal flush box and cover plate with frame:</b> Supply, Installation & Commissioning of metal flush mounting box - 8 module, along with modular base &		2NOS				

S. NO	ARCI ITEM CODE	DESCRIPTION	GST-HSN/SAC NO	QTY	BASIC RATE PER UNIT IN RS	GST		TOTAL AMOUNT Qty X Basic Rate +GST
						SGST	CGST	
		cover plate with frame for modular switches in recess to mount number of switches/ sockets as required at site/directed by ARCI officials. Provisions should be made to enter the 25mm dia PVC conduits as per the site requirement. Earthing point provision to be made inside the box. Location as shown in drawings/ as directed by ARCI officials and technical specifications Make: Legrand - (6890 31, 5757 60)/ Schneider						
17	312002347	<b>12 Module metal flush box and cover plate with frame:</b> Supply, Installation & Commissioning of metal flush mounting box - 12 module, along with modular base & cover plate with frame for modular switches in recess to mount number of switches/ sockets as required at site/directed by ARCI officials. Provisions should be made to enter the 25mm dia PVC conduits as per the site requirement. Earthing point provision to be made inside the box. Location as shown in drawings/ as directed by ARCI officials and technical specifications Make: Legrand - (6890 11, 5757		10NOS				

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						SGST	CGST	
		70)/ Schneider						
18	312002362	<b>Fan Box :-</b> Supply, Fixing, and commissioning of Fan Box along with fan hook made up of 10mm rod with standard accessories complete with erection. Make: Sudhakar/precision/Anchor		6NOS				
19	312002363	<b>Fan Regulator:-</b> Supply, Fixing, Testing and commissioning of modular electronic step type Fan Regulator of 120W, 2 module 230V, 50 HZ, AC for ceiling fans of 1200mm sweep complete erection on existing board. Make : Legrand (5734 69)/schneider		26NOS				
20	312002364	<b>Exhaust Fans:-</b> Supply, Fixing, Testing and commissioning of fresh air Exhaust Fan of heavy duty 300mm size (12"), Metallic body metallic blades, wire mesh, fabricated GI base frame (minimum angle of frame should be 25x3 mm) cum clamps of required size, minimum 10 mm anchor bolts for grouting, required civil work, and welding works are included and the work to be carried out as directed by the		2NOS				

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						SGST	CGST	
		owner/engineer. 3 Core 1.5sqmm flexible copper cable for tap power from Power socket .etc. including outside GI louvers and all materials. Make: Crompton Greaves/Bajaj/Almonard.						
21	312002365	<b>Ceiling Fans:-</b> Supply,Fixing,Testing and commissioning of 5 star rated Ceiling fan of 1200mm size (48"), to existing fan hook box, with 3Core 1sqmm flexible copper cable from existing ceiling rose and all required materials. Make: HS Plus - 5 Star Crompton or Bajaj equivalent.		26NOS				
22	312002379	<b>Telephone Sockets:-</b> Supply, fixing, testing and commissioning of modular Telephone jack/sockets including modular front plate and all accessories complete. Make : Legrand/ L & T. Note: Before procuring, contractor must take permission from ARCI officials and erecting should be as directed by ARCI /technical specifications.		4NOS				
23	312002380	<b>2 Pair Telephone Cable:-</b> Supply and laying of 2 Pair telephone cable		70RM				

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						SGST	CGST	
		in the existing conduit pipe with connections etc.,complete for telephone sockets. Make : Finolex / L&T/Anchor. Note: Before procuring, contractor must take permission from ARCI officials.and erecting should be as directed by ARCI / technical specifications.						
24	312002381	<b>Lan Socket:-</b> Supply, fixing, testing and commissioning of modular type Cat-6 RJ-45 UTP information outlet/ socket for LAN connections including modular front plate and all accessories complete. Make: Beldan / D Link / Legrand. Note: Before procuring, contractor must take permission from ARCI officials .and erecting should be as directed by ARCI / technical specifications.		10NOS				
25	312002382	<b>Lan Cable(CAT-6):-</b> Supply, laying, termination, testing and commissioning of Cat-6 UTP cable in existing conduit for LAN points with giving all connections ,including cost and conveyance of all materials and labor. Make: D Link / Legrand.		600RM				

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						SGST	CGST	
		Note: Before procuring, contractor must take permission from ARCI officials and erecting should be as directed by ARCI / technical specifications.						
26	312002384	<b>100 mm Dia GI Pipes:-</b> Supply,installations of GI pipe of 100mm dia with all types of GI bends/T's/L's/ Coupling as per site conditions class B pipe for the run of power cable / Communication cables for Road corssings & building entrys. Make: Jindal/Tata Note: Before supply/ installations, contractor must take permission from ARCI officials.		<b>24RM</b>				
27	312002386	<b>300mm wide x 750mm Depth Cable Trench:-</b> Excavation of cable trench of size 300mm wide x 750mm depth in wet, dry, and rocky conditions of the soil for cable laying. The cables shall be laid on fine sand (Sand without sharp edges) bed of 150mm in the excavated trench, after cable laying again cover the cable by providing fine sand of 150mm as cushioning. cover the entire trench area with red bricks with single layer Back fill		<b>50RM</b>				

S. NO	ARCI ITEM CODE	DESCRIPTION	GST-HSN/SAC NO	QTY	BASIC RATE PER UNIT IN RS	GST		TOTAL AMOUNT Qty X Basic Rate +GST
						SGST	CGST	
		the excavated earth soil and complete the reinstatement. The excess earth/ soil shall be removed from the site and transported to the place as per direction of the ARCI officials.						
28	312002388	<b>300mm wide x 750mm depth Road Cutting:-</b> Cutting the tar road or cement road/ couple stone road along with culverts either side of the road to make cable trench of size of 300mm wide x 750mm depth, laying of 100mm dia, GI pipes and remaking to original shape both road with tar, PCC & culverts with bricks, plastering as directed by ARCI Officials for the run of Power/Telephone/LAN cable at the road crossings, building entry, Underground, Flooring and over the walls. GI Pipe not included. Note: Before excavation, contractor must take permission from ARCI officials		12RM				
29	312002389	<b>LT Cable Marker:-</b> Supply, installation, testing and commissioning of Cast Iron Cable markers duly showing the direction of cable route for LT cables from old building to new building. The		8NOS				

S. NO	ARCI ITEM CODE	DESCRIPTION	GST-HSN/ SAC NO	QTY	BASIC RATE PER UNIT IN RS	GST		TOTAL AMOUNT Qty X Basic Rate +GST
						SGST	CGST	
		markers are required to be fixed on GI angle of size 35 x 35 x 6mm of length 700mm and grouted in PCC of size 200 x 200 x 200mm to be placed at every interval of 20 metres length fixed in ground as directed by ARCI officials And technical specifications.						
30	312002393	<b>Supply of 3.5CX70sqmm Alluminium Armoured Cables:-</b> Supply of XLPE insulated Armoured, 1100V Grade Power cables with alluminium conductors as per IS:7098 part-1/1988. Make: Finolex/ Universal		100RM				
31	312002405	<b>Laying of 3.5CX70sqmm Alluminium Armoured Cables:-</b> Labour charges for laying of one No. of XLPE power cable of 1.1KV grade of size 3.5CX70 Sqmm in under ground trench up to building premisis, as directed by ARCI officials and also required materials such as cable drum handling euiPMENT / cable pulling equipment & related accesories etc.		100RM				
32	312002414	<b>4CX6 sqmm Cable Terminations:-</b> Supply, installation, testing & commissioning of unarmoured		6NOS				

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						SGST	CGST	
		cable termination (labour,material & equipments) of the cable and at one end using double compression gland, copper lugs, including aluminum cable tags, as per IS Code and making required opening in gland plate with hole cutter and crimping with crimping tool. Make: Dowells Lug, Grip Gland.						
33	312002415	<b>4CX10 sqmm Cable Terminations:-</b> Supply, installation, testing & commissioning of unarmoured cable termination (labour,material & equipments) of the cable and at one end using double compression gland, copper lugs, including aluminum cable tags, as per IS Code and making required opening in gland plate with hole cutter and crimping with crimping tool. Make: Dowells Lug, Grip Gland.		2NOS				
34	312002420	<b>3.5CX70 sqmm Cable Terminations:-</b> Supply, installation, testing & commissioning of armoured cable termination (labour,material & equipments) of the cable and at one end using double compression gland, alluminium lugs, including		2NOS				

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						SGST	CGST	
		aluminum cable tags, as per IS Code and making required opening in gland plate with hole cutter and crimping with crimping tool. Make: Dowells Lug, Grip Gland.						
35	312002425	<b>GI Pipe Earthing :-</b> Supply, installation, testing and commissioning of independent earthing with 50 mm. Dia "C" Class 3.0 meter long GI Pipe and covered with mesh of suitable size funnel enclosed with stone masonry chamber of size 600mm x 600mm x 450 mm, stone masonry base should be of PCC of 100mm thick. With suitable RCC precast cover with lifting arrangements. The GI pipe required to be provided with staggered holes of 16 Nos. of 12 mm. dia to the earth electrode, filling with 200mm layers height of salt and charcoal around dia 400mm(keeping GI pipe in center) and from the bottom of the pipe to the bottom of the CC chamber. The connection from the electrode will be through 50 x10 mm. GI strip provided at the top with 12mm holes(4nos) of the GI pipe along with GI(10mm) nut bolts and		4NOS				

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						SGST	CGST	
		washers complete as per the drawing /as directed by ARCI officials and technical specifications.						
36	312002427	<b>25X3 MM GI Strip :-</b> Supply, fixing, laying, commissioning and testing of 25X3 MM GI Strip as earthing conductor with all required materials such as GI nut bolts,Anchor fastners,bolts and terminations etc., and erection should be as directed by ARCI staff		<b>150RM</b>				
37	312002428	<b>50X6 MM GI Strip :-</b> Supply, fixing, laying, commissioning and testing of 50X6 MM GI Strip as earthing conductor with all required materials such as GI nut bolts,Anchor fastners, bolts and terminations etc., and erection should be as directed by ARCI staff		<b>150RM</b>				
38	312002430	<b>8SWG GI wire:-</b> Supply, fixing, laying, commissioning and testing of 8SWG GI wire as earthing conductor with all required materials such as GI nut bolts etc., and erection should be as directed by ARCI staff		<b>100RM</b>				
39	312002437	<b>Access Point :-</b> Supply, Instalation testing testing and Commissioning of Access Point along with LAN		<b>2NOS</b>				

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						SGST	CGST	
		Cable from Switch to Access point location with all required accessories. MAKE- D-LINK DWL-3200 AP Wireless Access point with Warranty of 3 Years						
40	312002553	<b>18 Module metal flush box and cover plate with frame:</b> Supply, Installation & Commissioning of metal flush mounting box - 18 module, along with modular base & cover plate with frame for modular switches in recess to mount number of switches/ sockets as required at site/directed by ARCI officials. Provisions should be made to enter the 25mm dia PVC conduits as per the site requirement. Earthing point provision to be made inside the box. Location as shown in drawings/ as directed by ARCI officials and technical specifications Make: Legrand - (6890 12, 5757 90)/ Schneider		2NOS				
41	312002554	<b>1.5sqmm Point Wiring:-</b> Supply, Installation, Testing and Commissioning of Point wiring to be drawn from SWITCH BOARD(SB) to ceiling rose - 3runs of 1.5sqmm PVC insulated copper		400RM				

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						SGST	CGST	
		<p>conductor flexible multistrand wires (FRLS) to be drawn seperately from SB to first ceiling rose . And from second ceiling rose neutral and earth wire to be looped drawn from first ceiling rose, but 1 run seperate phase wire should be drawn seperately from SB to second ceiling rose. Similarly all neutral and earth wires should be looped in ceiling roses for that SB. And all individual ceiling roses should get 1 run 1.5sqmm wire for phase directly from SB</p> <p>PI Note:</p> <ol style="list-style-type: none"> <li>1. Maximum 9nos of 1.5Sq.mm size wires are allowed in a single 25mm dia pvc pipe, if more than 9nos of wires are required to run one more 25mm dia pvc pipe should be laid.</li> <li>2. Measurements will be taken per meter as per site installation per run of three wires (Phase, Neutral &amp; Earth).</li> <li>3. Finolex/Anchor/ L&amp;T Makes, fire retardant low smoke type wires are accepted.</li> <li>4. Neutral and earth wire should be looped for maximum of six fittings</li> </ol>						

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						SGST	CGST	
		5. Color code shall be as per IS code 6. Erection should be carried out as per general technical specifications and as directed by ARCI officials. 7. Jointing of wires are not allowed between switch board to ceiling rose .						
42	312002555	<b>32A TPN industrial plug and socket DB with 4P MCB:-</b> Supply,Installation,Testing,Commissioning along with necessary accessories for 16A TPN industrial plug and socket DB with 4P MCB ,415V, 50 HZ, AC. industrial plug and socket in SS encloser flushed in Wall, with all internal connections and labor complete. Makes: Legrand(model no:6078 72, 608696 ) / Scheinder.		14NOS				
43	312002558	<b>1x 20W LED batten:-</b> Supply,Fixing,Testing and commissioning of LED type 1x 20W surface mounted batten (sutable for LED tube light) on wall / Ceiling with 4 feet LED Tube (operating voltage 230V AC supply, 50Hz) ,with 3Core 1sqmm flexible cable to tap power from ceiling rose .etc complete, along		64NOS				

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						SGST	CGST	
		with the required mounting accessories such as anchor fasteners, SS chain and erection should be as directed by ARCI staff Make:Philips LED tube (MAS LED tube 1200mm 18W865 t81, LED Batten - Philips (BN150W LED 20S-6500 PSE OD GRO) or Wipro make equivalent.						
44	312002559	<b>8WAY VTPN Distribution Boards (PDB):-</b> Supply,fixing,testing & commissioning of horizontal TPN Distribution Boards double door as per IP43 degree protection supplied with busbar, wire sets, blanking plates, cable ties, identification labels, earth bar & insulated neutral bar as standard with one no. 125A 4P MCCB as incomer with 3nos 40A -63A TP MCB & 3nos 32A TPMCB( C-Series) as outgoings and fixing with 25x3mm GI Angle frame and frame to be grouted in wall and DB to be fixed on grouted angle frame. VTPN Distribution board double door -8 way(PDB)as per drawing. Make : ABB/ INDOASIAN/ Siemens.		1NO				

S. NO	ARCI ITEM CODE	DESCRIPTION	GST-HSN/ SAC NO	QTY	BASIC RATE PER UNIT IN RS	GST		TOTAL AMOUNT Qty X Basic Rate +GST
						SGST	CGST	
		Note: Erection should be as directed by ARCI officials and technical specifications.						
45	312002560	<p><b>12 WAY VTPN Distribution Boards (LDB-2):-</b> Supply,fixing,testing &amp; commissioning of vertical TPN Distribution Boards double door as per IP43 degree protection supplied with busbar, wire sets, blanking plates, cable ties, identification labels, earth bar &amp; insulated neutral bar as standard with one no 63A 4P MCCB as incomer and 4nos 16A TP MCB &amp; 12nos 10A SPMCB(C-Series) as outgoing and fixing with 25x3mm GI Angle frame and frame to be grouted in wall and DB to be fixed on grouted angle frame. VTPN Distribution board double door - 12 way (PDB) Make :ABB/ INDOASIAN/ Siemens. Note: Erection should be as directed by ARC I officials.and technical specifications.</p>		1NO				
46	312002561	<p><b>8 WAY VTPN Distribution Boards (LDB2):-</b> Supply,fixing,testing &amp; commissioning of vertical TPN</p>		2NOS				

S. NO	ARCI ITEM CODE	DESCRIPTION	GST-HSN/ SAC NO	QTY	BASIC RATE PER UNIT IN RS	GST		TOTAL AMOUNT Qty X Basic Rate +GST
						SGST	CGST	
		Distribution Boards double door as per IP43 degree protection supplied with busbar, wire sets, blanking plates, cable ties, identification labels, earth bar & insulated neutral bar as standard with one no.63A 4P MCCB as incomer and 4nos 16A TP MCB & 12 nos 10A SPMCB(C-Series) as outgoing and fixing with 25x3mm GI Angle frame and frame to be grouted in wall and DB to be fixed on Angle. VTPN Distribution board double door - 8 way (PDB) Make : ABB/ INDOASIAN/ Siemens. Note: Erection should be as directed by ARCI officials and technical specifications.						
47	312002562	<b>4WAY VTPN Distribution Boards (LDB1):-</b> Supply,fixing,testing & commissioning of vertical TPN Distribution Boards double door as per IP43 degree protection supplied with busbar, wire sets, blanking plates, cable ties, identification labels, earth bar & insulated neutral bar as standard with one no.32A 4P RCCB as incomer and 1nos 16A TP MCB (C-Series) & 8 nos 10A		1NO				

S. NO	ARCI ITEM CODE	DESCRIPTION	GST-HSN/ SAC NO	QTY	BASIC RATE PER UNIT IN RS	GST		TOTAL AMOUNT Qty X Basic Rate +GST
						SGST	CGST	
		SP MCB, 1 no 16A SP MCB as outgoing and fixing with 25x3mm GI Angle frame and frame to be grouted in wall and DB to be fixed on grouted angle frame. VTPN Distribution board double door - 4 way (LDB1) Make : ABB/ INDOASIAN/ Siemens. Note: Erection should be as directed by ARC I officials and technical specifications.						
48	312002563	<b>Networking Switch:-</b> Supply, Installation, testing and commissioning of Networking switch completed with following items to accommodate at each location with required erection materials like bolt & nuts etc. and should be mounted on grouted GI angle frame of size 25x3mm and erected as directed / decided by ARCI officials as per IEEE norms in rooms / buildings. 1) 2nos of web smart 24-port Gigabit switch with 4 Combo SFP Slots with 4nos of 1000 base -SX SFP Module (fibre transceiver) upto 550mm - 2nos Makes: DLINK /CISCO		1NO				
49	312002564	<b>Supply of 4C x 6sqmm Copper</b>		130RM				

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						SGST	CGST	
		<b>armoured Cables:</b> Supply of XLPE insulated armoured, 1100V Grade Power cable with copper conductors as per IS:7098 part-1/1988. Make: Finolex / Universal.						
50	312002565	<b>Supply of 4C x 10sqmm Copper armoured Cables:</b> Supply of XLPE insulated armoured, 1100V Grade Power cable with copper conductors as per IS:7098 part-1/1988. Make: Finolex / Universal.		120RM				
51	312002566	<b>Laying of 4C x 10 sqmm Copper armoured Cables:-</b> Labour charges for laying of one No of XLPE power cable of 1.1KV grade of size 4Cx10sqmm on walls, OH and UG trays / concrete beams / RCC structures with required fixing material, including GI base saddels at every 500mm in building premisis as directed by ARCI officials and also required materials such as Ladders / Supports / Scaffolding / Cable drum handling cable pulley and related accesories etc.		130RM				
52	312002567	<b>Laying of 4C x 6 sqmm Copper armoured Cables:-</b> Labour charges for laying of one No of XLPE power cable of 1.1KV grade		120RM				

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						SGST	CGST	
		of size 4Cx6sqmm on walls, OH and UG trays / concrete beams / RCC structures with required fixing material, including GI base saddels at every 500mm in building premisis as directed by ARCI officials and also required materials such as Ladders / Supports / Scaffolding / Cable drum handling cable pulley and related accesories etc.						
53	312002568	<b>Removing of wires / PVC pipe:-</b> Removing of all types of wires / pvc pipes / fitting cable from walls/OH UG trays, and to orginal condition as directed by ARCI officials.		150RM				
54	312002569	<b>Booster Pump:</b> SITC a hydro pneumatic water pressure booster pump of Grundfos make or equivalent reputed make, to enhance the water line pressure from the present 1 kg/sq.cm to 3 kg/sq.cm. Job includes fixing the unit with appropriate foundation, providing power connections, making inlet and outlet connections. Compact, reliable, horizontal, multistage, end-		1NO				

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						SGST	CGST		
		<p>suction centrifugal pump with axial suction port and radial discharge port. The shaft, impellers and chambers are made of stainless steel. The inlet and discharge parts are made of cast iron.</p> <p>The pump is fitted with a 1-Phase, foot mounted, fan cooled asynchronous motor.</p> <p>Technical:            Speed for pump data : 2900 rpm            Actual calculated flow: 4.49 m<sup>3</sup>/h            Resulting head of the pump : 28m            Primary shaft seal: AVBE            Motor rated power ; 0.67 KW., 50 hz, 240v            Rated current : 4.4 to 4.0A            Rated Speed : 2720 - 2800 rpm.            Make : GRUNDFOS (Product Code : 96806833) CM5-4 A-R-A-E-AVBE or Equivalent.</p>							
55	312002570	<p><b>Water Geyser 40 Ltrs Capacity:</b>            SITC of 40 liters' capacity storage water geyser in the dish wash room. Geyser to conform to applicable BIS standards, have a double layer insulation protection, indicator, switch and a thermostat. Approved models are Venus, AO Smith and</p>		1NO					

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						SGST	CGST	
		Lexus, subject to prior approval of model. Job includes fixing at site, providing power connections, and making inlet and outlet connections.						
56	312002571	<b>Post top lantern LED:</b> Supply, fixing, testing and installation of post top decorative luminaries of LED lamp of IP 65 fitting for mounting on 2.5 meter long of 60mm dia GI pipe-B class with base plate and suitable pole cap, lamp including cost of all civil materials like 60mm dia GI pipe, base foundation for erecting the pole. Complete, and erection should be as directed by ARCI staff. Make: Philips BGP161 LED2500/NW PSU 220-240V 7043 IN or Wipro equivalent.		2NOS				
57	312002572	<b>Lightning Arrestor:</b> Supply, Installation, testing and commissioning and handing over to ARCI lighting arrestor of copperas per IS2309-1967, to be installed on the first floor of the building with concrete basement with complete machinery and manpower (FRANKIN ROD)		1NO				

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						SGST	CGST	
58	312002573	<p><b>6.0Sqmm Point Wiring:-</b> Supply, Installation, Testing and Commissioning of circuit wiring to be drawn from power distribution board to power points-4runs of 6sqmm PVC insulated copper conductor flexible wires (FRLS) for 32A power points.</p> <p>PI Note:</p> <ol style="list-style-type: none"> <li>1. Maximum 4no of 6.0Sq.mm size wires are allowed in a single 25mm dia pvc pipe, if more than 4 nos of wires are required to run, one more 25mm dia pvc pipe should be laid.</li> <li>2. Measurements will be taken per meter as per site installation per run of four wires (Phase R-Y-B, Neutral).</li> <li>3. Finolex/ Anchor/ L&amp;T- Makes, fire retardant low smoke type wires are accepted.</li> <li>4. Color code shall be as per IS code.</li> <li>5. Erection should be carried out as per general technical specifications and as directed by ARCI officials.</li> <li>6. Joints of wires are not allowed between Distribution boards to the power points.</li> </ol>		100NOS				
59	312002581	<b>1x 10W square type LED</b>		23NOS				

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						SGST	CGST	
		<p><b>Luminaires:-</b> Supply,Fixing,Testing and commissioning of 1x 10W Low-galare downlighter(115mmx115mm size) ,with 3Core 1.0sqmm flexible cable to tap power from ceiling rose .etc complete,along with the required mounting accessories such as anchor fasteners, SS chain and erection should be as directed by ARCI officials . Make:Philips DN 097B LED 10S – 6500 PSU WH or Wipro make equivalent.</p>						
60	312002582	<p><b>34W square type LED Luminaires:-</b> Supply,Fixing,Testing and commissioning of 1x 34W square type recess mounted LED luminaires withDD diffuser ( 600 mm x 600mm ),with 3Core 1sqmm flexible cable to tap power from ceiling rose .etc complete, along with the required mounting accessories such as anchor fasteners, SS chain and erection should be as directed by ARCI staff . Makes: Philips RC 380B LED 34S-6500L60W 60PSD OD SI or</p>		10NOS				

S. NO	ARCI ITEM CODE	DESCRIPTION	GST-HSN/ SAC NO	QTY	BASIC RATE PER UNIT IN RS	GST		TOTAL AMOUNT Qty X Basic Rate +GST
						SGST	CGST	
		Wipro make equivalent.						
61	312002583	<b>LED street light Luminaires:-</b> Supply,Fixing,Testing and installation of Integral street light luminaire of 20W lamp fitting comprises of pressure die cast Aluminum body with powder coated , on 25mm dia GI pipe bracket and anti-tilting 25x3mm GI flat to be grouted on wall with 4no's of S.S anchor bolts etc., complete,and erection should be as directed by ARCI staff . Make: Philips BRP 022 LED20 CW MR SI PSU GR / Wipro equivalent.		5NOS				
62	312002586	<b>Metering Panel:-</b> Design, fabrication, supply, installation, testing and commissioning of 3 phase 415V meter box of 14 gauge CRCA sheet steel powder coated and designed for giving extra space for incoming termination with all switch gears, with din-channel mounted Multifunction meter with functions like V, A, kVA, kVAH, kW, kWh ,selector switch, L.E.D indicating lights. 63A/5A- 3no's or 125/5A-3no's or 250/5A-3no's, C.T's should be fixed in a panel as		1NO				

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						SGST	CGST	
		per shown in drawing, all meters should have RS-485 communications port with Modbus / industrial Ethernet protocol. This module/panel must be assembled bottom of the TPN distribution board i.e. on GI angle frame of required size with 25x3mm GI angles. As shown in GA drawings or as instructed by ARCI officials. Make:- Schneider electric/ L&T/ Siemens.. Note: Erection should be as directed by ARCI officials. And technical specifications.						

1.Total Civil Works Amount: \_\_\_\_\_

2.Total Electrical Works Amount: \_\_\_\_\_