



ECGC LTD...

(A Government of India Enterprise)

TENDER DOCUMENT

(Terms, Conditions & Drawings)

PART-A

**Proposed Civil Interior Furnishing, Electrical &
A.C. Works**

FOR



ECGC LTD....

(A Government of India Enterprise)

RAIPUR BRANCH OFFICE (C.G.)

G.T.DESIGNSTUDIO

ARCHITECT'S+INTERIOR'S+ ENGINEER'S

P-27, Kavita Nagar, Avanti Vihar, Raipur (C.G.)

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Mail:- gtdsarchitect@gmail.com

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PREQUALIFICATION CRITERIA

The interested contractors should furnish the following documents for Pre-qualification along with the tender document.

1. Having done minimum one work of **Fifteen lacs**. Of similar nature of any public sector ECGC Ltd or institute.

Or

Having done minimum of **Two** works of **Twelve lacs** or more

2. Should have registration of GST, Income tax. (Enclose related photocopies of Firm registration, PAN, GST Number).
3. Enclosed copy of work order/completion certificates & credentials to prove for pre-qualification.
4. The tender paper can be collected from Architect's office & applied.
5. **Rs 20,000/-** as earnest money in favor of ECGC Ltd. RAIPUR, Tender paper without application & earnest money is liable to be rejected.
6. Last date of submission is **on 23rd July 2018 up to 5.00 PM & tentative date of opening is 27th July 2018.**
7. Works other than BOQ will not be entrained for payments with out written permission from branch manager, **ECGC Ltd., Raipur.**
8. Any of the item found sub standard of below specification will not be liable for payments, no deducted rates will be provided for that item.
9. For electrical works contractor should provide 'B' class contractor's undertaking certificate.
10. Contractors have to provide balance sheet of past three years of his account.
11. Time period is essence of project no excuses will be entertained in regards of working, contractor have to perform the work with in time schedule other wise the penalties will be imposed.

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SECTION -1

NOTICE OF INVITATION TO TENDER

Sealed tenders on item rate basis are invited from competent Furnishing Interior contractors having sound technical and financial capacity for Interior works of ECGC Ltd. Branch, Raipur Region. Tender documents may be directly downloaded from the ECGC Ltd... site.

1.0 Submission of Tender

1.1 The tenders are to be submitted in two separate envelopes each sealed and clearly identified as to envelope number and contents as indicated below. All the Two envelopes shall be contained in a large envelope superscribed "Tenders for Interior Works at ECGC Ltd., at Raipur Each tenderer will be issued one set of tender documents with drawings.

1.1.1 Envelope No.1 (Technical Bid Earnest Money)

The Envelope No.1 shall contain Technical bid earnest money deposit in the form of Crossed Demand Draft of **Rs 20,000.00 (Rupees Twenty Thousand Only)** in favor of ECGC Ltd. RAIPUR, for Interior Civil Airconditioning Electrical Works of its **Raipur Branch** This envelope shall be superscribed " Envelope No.1 (Technical Bid Earnest Money)

1.1.2 Envelope No.2 (Tender Document & Financial Bid)

Envelope No.2 shall contain Tender Document & Financial Bid each page and correction duly signed by Tenderers including tender form dully filled in, complete details and description including all data are to be supplied by tenderers specified in the information and instructions to Tenderers. This envelope shall be superscribed " Envelope No.2 (Tender Document & Financial Bid) for Interior Works for **ECGC Ltd**

1.2 Sealed tenders as above will be received by the Office of , ECGC Ltd., Branch Office Raipur, **Up to 5.00 PM. on 23rd July 2018.**

1.3 Tenders received late on account of any reason whatsoever and telegraphic tenders will not be entertained.

1.4 The earnest money deposited by demand draft must accompany each tender and the tenders not accompanied by the earnest money deposited by demand draft are liable to be rejected as NON-RESPONSIVE.

1.5 The tender shall be valid for a period of 90 days after the dates of opening of envelop No.2.

1.6 For any further information on the tender the Office of , ECGC Ltd Branch Office Raipur may be contacted.

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1.7 The ECGC Ltd. will not be bound to accept the lowest tender and reserves the right to accept or reject any or all the tenders without assigning any reasons whatsoever.

, , Branch Office Raipur, ECGC LTD.... ,
RAIPUR

SECTION -II

INSTRUCTIONS FOR TENDERER

2.0 The details of work to be carried out and its scope are given in the specifications and bill of Quantities of these documents which also indicate a brief description of the Project where work is to be executed.

The Tenderers are advised to study the same carefully before tendering and they shall be deemed to have fully acquainted themselves with the same.

2.1 The Tenderers, in their own interest, are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders, in respect of the site conditions including but not restricting to the following which may influence or effect the work or cost thereof under the contract.

a) Site conditions including access to the site, existing and required roads and other means of transport/communication for use by him in connection with the work.

b) Requirement and availability of land and other facilities for his enabling works, stores and workshops etc.

c) Ground condition including those bearing upon transportation, disposal, handling and storage or materials required for the work or obtained there from.

d) Source and extent of availability of suitable materials including water etc. and labours (skilled and unskilled) required for work and laws and Regulations governing their use and employment;

e) The type of equipment and facilities needed preliminary for and in the performance of the work and for successful completion of work.

f) All other information pertaining to and needed for the work including information as to the risks, contingencies and other circumstances which may influence or affect the work or the cost thereof under this contract.

2.2 The tenderers should note that the information, if any, in regard to the site and local conditions, as contained in these tender documents has been given merely to assist the tenderers and is not warranted to be complete.

2.3 The tenderers should note and bear in mind that the ECGC Ltd shall bear no

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responsibility for the lack of acquaintance of the site and other conditions or any information relating thereto, on their part. The consequences of the lack of any knowledge as aforesaid on the part of the tenderers shall be at their risk and cost and no charges or claims whatsoever consequent upon the lack of any information, knowledge or understanding shall be entertained or payable by the ECGC Ltd .

2.4 Immediately on receipt of the Tender Documents from the ECGC Ltd but at least seven days prior to the date fixed for opening of Envelope No. 1 & 2 of Tender, the Tenderer may submit in writing any tender enquiry on matters where clarifications or additional information is desired.

If considered appropriate, the ECGC Ltd reserves the right to issue addendum(s) or amendment(s) to any condition/specifications/schedules to all Tenderers before the date of submission. Tenders submitted by the tenderers shall be deemed to cover the effect of such addendum(s)/amendment(s) issued and such addendum(s)/amendment(s) duly signed by the tenderers shall be submitted along with the tenders.

2.5 The tender should be submitted in the prescribed form and the same should be signed as laid down here under;

a) If the tender is submitted by an individual it shall be signed by the proprietor above his full name and full name of his firm with his current business address.

b) If the tender is submitted by a proprietary firm, it shall be signed by the proprietor above his full name and full name of his firm with its name and current business address.

c) If the tender is submitted by a firm in partnership, it shall be signed for and on behalf of the firm by all the partners of the firm above, their full names and current business address, or by a partner holding the power of attorney for the firm by signing the tender in which case a certified copy of the Power of Attorney shall accompany the tender. A certified copy of the partnership deed and current business address of all the partners of the firm shall also accompany the tender.

d) If the tender is submitted by a Limited company, or a Limited corporation, it shall be signed by a duly authorized person holding the power of attorney for signing the tender in which case a certified copy of the Power of Attorney shall accompany the tender. Such Limited company or Corporation may be required to furnish satisfactory evidence of its existence before the contract is awarded.

e) If the tender is submitted by a group of firms, the sponsoring firms shall submit complete information pertaining to each firm in the group and state along with the bid as to which of the firm shall have the responsibility for tendering and for completion of the contract document and furnish evidence admissible in law in respect of the authority assigned to such firm on behalf of the group of the firms for tendering and for completion of the contract of the contract document. The full information and satisfactory evidence pertaining to the participation of each members of the group of firm in the tender shall be furnished along with the tender.

f) All witnesses and sureties (if any) shall be persons of status and their full names,

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occupations and address shall be stated below their signatures. All signatures affixed on each page in the tender will be dated.

2.6 The tenderer shall furnish with his tender:

a) Construction schedule showing all activities of work in details and in the form of Bar Chart proposed to be completed within the stipulated period duly signed as token of acceptance.

b) Details of plant, equipment and Machinery immediately available with the tenderer for deployment on the work.

c) Detail of Technical and supervisory personnel already employed by tenderer which he proposes to utilize for this work and such other personnel which he proposes to employ further for this work.

d) Relevant information on the capacity, financial resources and experience about himself.

2.7 The earnest money deposit without any interest will be returned to the unsuccessful tenderers only after validity period/award of work.

2.8 The ECGC Ltd or its duly authorised representative will open the tenders in the presence of tenderers who may be present at the time. If any of the tenderer or his agent is not present at the time of opening of tender, the ECGC Ltd or its duly authorised representative will, on opening of tenders of the absentee tenderer, prepare a statement of the attested and unattested corrections in the tender under his signatures. Such a statement shall then be binding on the absentee tenderer.

2.9 Tenders, which should always be placed in sealed covers, with the name of the project written on the envelopes will be received by ECGC LTD., RAIPUR up to 3.00 p.m on 23rd July 2018 And it will be opened in his office on 27th July at 3.30 hours onwards.

2.10 The time allowed for the carrying out of the work will be 30 Days from the date of written orders to commence the work.

2.11 The tenderers should quote for all the items of work as given in the bill of quantities. The rates shall be written in both the words and in figures. Tenderer shall also show cost of each item, total of each subhead and, the Grand total of the whole contract. Corrections, if any, shall be made by crossing out, initialing dating and rewriting.

2.12 While a contractor signs a tender in an Indian language the total amount tendered should also be written in the same language. In the case of illiterate contractors the rates and the amount tendered should be attested by a witness.

2.13 tender form will be stopped on on 23rd July 2018

2.14 Earnest money amounting to Rs. 20,000.00 (Rupees Twenty Thousand Only) in the form of Bank Draft drawn in favour of " Branch Office Raipur, ECGC Ltd, RAIPUR" must accompany each tender and each tender is to be in a sealed cover superscribed "Tender for Interior Works for Raipur Branch at ECGC Ltd" and addressed to the office of Branch Office Raipur, ECGC Ltd.

2.15 The contractor whose tender is accepted will be required to furnish by way of security deposit 2% of the accepted tender amount including earnest money for the due

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fulfilment of his contract. The Security Deposit shall be collected as detailed in General conditions of contract clause no. 5.12.

2.16 The acceptance of a tender will rest with the ECGC Ltd , which does not bind itself to accept the lowest tender, and reserves to itself the authority to reject any or all of the tenders received without the assignment of any reasons. All tenders in which any of the prescribed conditions are not fulfilled or are incomplete in any respect are liable to be rejected.

2.17 Canvassing in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.

2.18 All item rates shall be quoted on the proper form of the tender alone.

2.19 An item rate tender containing percentage below/above will be summarily rejected. However, where a tenderer voluntarily offers a rebate for payment within a stipulated period. This may be considered.

2.20 On acceptance of tender, the name of the accredited representative(s) of the contractor who would be responsible for taking instructions from the Employer/Architect shall be communicated to the Employer/Architect.

2.21 Special care should be taken to write in figures as well as in words and the amounts in figure only, in such a way that interpretation is not possible. The total amount should be written both in figures and words. In case of figures, the word 'Rs' should be written before, the figure of Rupees and words 'p' after the decimal figures, e.g. Rs 2.15 p and in case words, the word 'Rupees' should precede and the word paise should be written at the end, unless the rate is in whole rupees and followed by the words 'only', it should invariably be upto two decimal places. While quoting the rates in the bill of quantities, the word 'only' should be written closely following the amount and it should not be written in the next line.

2.22 (a) The ECGC Ltd does not bind itself to accept the lowest tender but it may accept any tender and reserves to itself the right of accepting the whole or any part of a tender and the tenderer shall be bound to perform the same at the rate quoted.

(b) The ECGC Ltd reserves the right to accept the tender in full or in parts and that the tenderer shall have no claim for revision of rates or other conditions if the tender is accepted in parts.

2.23 The contractor shall give a list of his relatives working with the ECGC Ltd along with their designations and addresses.

2.24 No employee of the ECGC Ltd is allowed to work under or as a contractor for a period of two years after his retirement from ECGC Ltd services, without the previous permission of the ECGC Ltd . This contract is liable to be cancelled if either the contractor or any of his employees is found at any time to be a such a person who had not obtained the permission of the ECGC Ltd as aforesaid before submission of the tender or engagement in the contractor's service.

2.25 The tender for works shall remain open for acceptance for a period of 90 days from

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the date of opening of Envelope No. 3 of the tenders. If any tenderer withdraws his tender before the said period, then the ECGC Ltd shall be at liberty to forfeit Earnest Money paid along with the tender.

The Earnest Money Deposit of the tenderer whose tender is accepted shall be forfeited in full in case he does not remit the initial security deposits within the stipulated period or start the work by the stipulated date mentioned in the award letter.

2.26 The tender for the work shall not be witnessed by a contractor or contractors who himself/themselves has/have tendered or who may and has/have tendered for the said work. Failure to observe this condition would render tenders of the contractors tendering as well as witnessing the tender liable to summary rejection.

2.27 It will be obligatory on the part of the Tenderer to tender and sign the tender documents for all the component parts and that, after the work is awarded, he will have to enter in to an agreement, for each component with the competent authority in the ECGC Ltd .

2.28 Sealed tenders are to be delivered in person to the officer nominated for the purpose or put in a sealed tender box kept in the office before the stipulated time.

2.29 The 'Notice Inviting Tender' and this 'Instructions for Tenderers' shall form part of the Tender Documents.

COMPETENT AUTHORITY
ECGC LTD....

SECTION - III
FORM OF TENDER

To,
The BM,
ECGC LTD.....,
Branch Office Raipur,ECGC LTD.....,
RAIPUR.

NAME OF WORK: Interior Civil,AC,& Electrical Works for ECGC Ltd Raipur Branch

Sir,

3.1 Having visited the site and examined the drawings, conditions of contract, special conditions of contract, General specifications and detailed specifications, schedules and bill of quantities for the

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construction of the above named works, we offer to construct, complete and maintain the whole of the said works in conformity with the said drawings, conditions of contract, specifications, schedules and bill of quantities for the sum stated in bill of quantities of this Tender Document or such other sum as may be ascertained in accordance with the said conditions of contract.

3.2 We undertake to complete and deliver the whole of the works comprised in the contract within the time stated in the appendix hereto.

3.3 We have independently considered the amount of liquidated damages shown in the Appendix hereto and agree that it represents a fair estimate of the loss likely to be suffered, by you in the event of the works not being completed in time.

3.4 We agree to abide by this tender for the period of 90 days from opening of envelope 2 or extension there of as required by the employer from the date fixed for receiving the same and it shall remain binding upon us and may be accepted at any time before the expiry of that period.

3.5 We confirm that the period and rates as referred in the agreement or general conditions of contract are given or summarized in the appendix hereto, to which we give our consent and agree to abide by the same.

3.6 If this tender is accepted, we undertake to enter into and execute at our cost, when called upon by the employer to do so, a contract agreement in the prescribed form. Unless and until a formal agreement is prepared and executed this tender together with your written acceptance there of, shall constitute a binding contract between us.

3.7 We understand that if our tender is accepted, we are to be jointly and severally responsible for the due performance of the contract.

3.8 We understand that you are not bound to accept the Lowest or any tender you may receive and may reject all or any tender, accept or entrust the entire work to the contractor or divide the work to more than one contractor without assigning any reason or giving any explanation whatsoever.

Dated this _____ day of _____ 2018 Signature
_____ in the capacity of _____ duly
authorised to sign tenders for and on behalf of

(IN BLOCK CAPITALS)

Witness: Signature/ Address:

APPENDIX TO FORM OF TENDER

GENERAL CONDITIONS OF CONTRACT CLAUSE NO.

Defects Liability period	12 Months (Clause No. 5.37)
Date of commencement	7 days from the date of acceptance letter is issued to contractor or day on which the contractor is instructed to take possession of the site whichever is later. (Clause No. 5.14)

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Time of completion	30 Days from the date of commencement. (Clause No. 5.14)
Period of Final Measurement	One months from the date of virtual completion (Clause No. 5.31)
Liquidated damages	0.5% of the tendered amount shown in the tender per week subject to the ceiling of 5% of the accepted contracted sum. (Clause No. 5.15)
Minimum value of work for interim certificate	4.0 Lakhs (This value shall be the difference of work done of two consecutive bills). (Clause No. 5.29)
Initial security deposit	2% of the accepted tender value including earnest money (Clause No. 5.12)
Retention percentage	10% of the accepted tender amount subject to maximum as per clause (Clause No. 5.12)
Refund of total security comprising of EMD, ISD and Retention	The initial security deposit comprising of EMD, shall be refunded to the ISD and retention contractor within 14 days of the issue of certificate of Virtual completion. The retention amount will be refunded to the contractor 14 days after the end of the defect liability period. (Clause No. 5.12)
Period of honoring Certificate	15 days from date of receipt of certificate from the Architect. (Clause No. 5.29)

SECTION -IV

ARTICLES OF AGREEMENT

This agreement is made on _____ day of _____ 2018 between (ECGC LTD...., Branch Office Raipur, ECGC LTD.... , RAIPUR, _____)

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(hereinafter called "The Employer") of the one part and _____ (hereinafter called "the Contractor") of the other part.

WHEREAS the Employer is desirous of certain works should be executed viz. Interior Works for ECGC LTD.... Branch at Raipur and has by letter of acceptance dated _____ accepted a tender by the contractor for the execution, completion, and maintenance of such works, now THIS AGREEMENT WITNESSES as follows :

4.1 In this agreement words and expressions shall have the same meaning as are respectively assigned to them in the said conditions of contract hereinafter referred to :

4.2 The following documents shall be deemed to form and to read construed as part of this agreement, viz. i) Original tender document. ii) Relevant correspondence all letters/correspondence forming part of contract and referred to in acceptance letter.

iii) Acceptance letter. iv) Bill of quantities. v) The drawings. vi) Time and progress chart. vii) Other additional documents as required, a) b) viii) Article of Agreement.

4.3 The aforesaid documents shall be taken as complementary and mutually explanatory of one another, but in the case of ambiguities of discrepancies the latest documents issued by the ECGC Ltd shall prevail over on earlier documents.

* Give the Name, Destination and Address of the Contractor.

4.4 In consideration of the payment to be made by the employer to the contractor as hereinafter mentioned, the contractor hereby covenants with the employer to perform execute, complete and maintain the work in conformity in all respects with the provision of the contract.

4.5 The employer hereby covenants to pay the contractor in consideration of the execution, completion and maintenance of the works such sums as shall become payable hereunder at the time(s) and in the manner prescribed in the said conditions and price schedule of quantities/bill of quantities prescribed in the contract.

IN WITNESS whereof the parties hereto have caused their respective common seals to be hereunto affixed (or have hereunto set their respective hands and seals) the day, month and year first above written. SIGNED AND SEALED AND DELIVERED BY THE Said _____ said _____ (Name _____)

(Name _____) On behalf of the contractor on behalf of the employer In the presence of in the presence of Name:

_____ Name: _____ Address: _____
Address: _____

*This form is included in the tender documents only for the information of the tenderers. Only the successful tenderer will be, in due course, required to complete the form

SECTION V

GENERAL CONDITIONS OF CONTRACT

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Except where provided for in the description of the individual items in the Schedule of Quantities and in the specifications and conditions laid down hereinafter and in the drawings, the work shall be carried as per standard specifications and under the directions of the Employer/Architects.

5.1 INTERPRETATION

In construing these conditions, the specifications, the schedule of quantities, tender and agreement, the following words shall have the meaning herein assigned to them except where the subject of context otherwise requires :

i) **Employer** : The term employer shall denote ECGC Ltd with their, Branch Office Raipur, and any of its employees or representative authorized to act on their behalf.

ii) **The ECGC Ltd** : The term ECGC Ltd shall mean ECGC Ltd., the Employer.

iii) **Architects** : The term Architects shall mean **M/s G.T.DESIGN STUDIO, P-27, KAVITA NAGAR, AVANTI VIHAR, RAIPUR.** or in the event of his/their ceasing to be the Architects for the purpose of this contract such other persons as the Employer shall nominate for the purpose.

iv) **The Engineer in charge** : The term means Engineer to ECGC Ltd. deployed to look after the work.

v) **Site Engineer** : The term shall mean person posted at site who shall work under the orders of Architects/Employer/Engineer-in-charge to inspect the works.

vi) **Contractor** : The term Contractor shall mean _____ (name and address of the contractor) and his/their heirs, legal representatives assigns and successors.

vii) **Site** : The site shall mean the site where the works are to be executed as shown within boundary on the Site Plan including any building and erections thereon allotted by the Employer for the Contractor's use.

viii) **Drawings** : The work is to be carried out in accordance with drawings, specifications, the schedule of quantities and any further drawings which may be supplied or any other instruction, which may be given by the employer during the execution of the work.

All the drawings relating to work given to the contractor together with a copy of schedule of quantities are to be kept at site and the Employer/Architects shall given access to such drawings or schedule of quantities whenever necessary.

In case any detailed drawings are necessary, contractor shall prepare such detailed drawings and/or dimensional sketches therefore and have it confirmed by the employer prior to taking up such work.

The contractor shall ask in writing for all clarifications on matters occurring anywhere in drawings, specifications and schedule of quantities or to additional instructions at least 10 days ahead from the time when it is required for implementations so that the Employer may be able to give decision thereon.

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- ix) "The works" shall mean the work or works to be executed or done under this contract.
- x) "Act of Insolvency" shall mean any act as such as defined by the Presidency Towns Insolvency Act or in Provincial Insolvency Act or any Amending Statutes.
- xi) "The Schedule of Quantities" shall mean the schedule of quantities as specified and forming part of this contract.
- xii) "Priced Schedule of Quantities" shall mean the schedule of quantities duly priced with the accepted quoted percentage of the contractor.
- xiii) Order of precedence for any ambiguity in the schedule of quantities, general conditions, special conditions, specifications and drawings for the contractor shall be as per the decision of the Employer and the same will be binding on the Contractor, and shall be read as under in the decreasing order of importance.
- a) Schedule of Quantities.
 - b) Drawings.
 - c) Special Conditions.
 - d) General Conditions.
 - e) Technical Specifications of Contract.
 - f) C.P.W.D. specifications.
 - g) Bureau of Indian Standards specifications.
 - h) State P.W.D./General Engineering Practice.

Any ambiguity observed shall be brought to the notice of Employer and be executed after obtaining approval from the Employer.

5.2 SCOPE

The work consists of Interior Works ECGC Ltd. **Raipur Branch**, in accordance with the "Drawings" and "Schedule of Quantities". The Interior works, related civil and electrical works etc. complete are within the scope of this tender. It includes furnishing all materials, labour, tools and equipment and management necessary for, and incidental to, the construction and completion of the work. All work, during its progress and upon completion shall conform to the lines, elevations and grades as shown on the drawings furnished by the employer. Should any detail essential for efficient completion of the work be omitted from the drawings and specifications it shall be the responsibility of the contractor to inform the employer and to furnish and install such detail with employer's concurrence, so that upon completion of the proposed work the same will be acceptable and ready for use.

Employer may in their absolute discretion issue further drawings and/or written instructions, details, directions and explanations, which are, hereafter collectively, referred to as "the employer's instructions" in regard to :

- a) The variation or modification of the design quality or quantity of works or the addition

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or omission or substitution of any work.

b) Any discrepancy in the drawing or between the schedule of quantities and/or drawings and/or specifications.

c) The removal from the site of any defective materials brought thereon by the contractor and the substitution of any other material thereof..

d) The demolition/removal and/or re-execution of any work executed by the contractors

e) The dismissal from the work of any persons employed thereupon.

f) The opening up for inspection of any work covered up.

The rectification and making good of any defects under clauses hereinafter mentioned and those

g) arising during

the maintenance period (retention period).

The contractor shall forthwith comply with and duly execute any work comprised in such employer's instructions, provided always that verbal instructions, directions and explanations given to the contractor's or his representative upon the works by the employer shall if involving a variation be confirmed in writing to the contractor/s within seven days. No works for which rates are not specifically mentioned in the priced schedule of quantities, shall be taken up without written permission of the employer. Rates of items not mentioned in the priced schedule of quantities shall be fixed by the employer in consultation with the Architects as provided in clause "variations".

5.3 TENDERER SHALL VISIT THE SITE

Intending Tenderer shall visit the site and make himself thoroughly acquainted with the local site conditions, nature and requirements of the works, facilities of transport conditions, effective labour and materials, accesses and storage for materials. The Tenderer shall provide in their tender for cost of carriage, freight and other charges as also for any special difficulties and including police restriction for transport etc. for proper execution of work as indicated in drawings. The successful Tenderer will not be entitled to any claim of compensation for difficulties faced or losses incurred on account of any site conditions which existed before the commencement of the work or which in the opinion of the Employer might be deemed to have reasonably been inferred to be so existing before commencement of work.

5.4 TENDERS

The entire set of tender paper issued to the tenderer should be submitted duly priced and also signed on the last page together with initials on every page. Initials/Signature will indicate the acceptance of the tender papers by the tenderers.

The schedule of quantities shall be filled in as follows :

i) The rates column to be legibly filled in ink in both English figures and English words.

ii) Amount column to be filled in figures for each item and the amount for each subhead as detailed in the "Schedule of Quantities".

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iii) All corrections are to be initialed.

iv) The "Rate Column" (for alternative items shall be filled up).

v) The "Amount" for alternate items of which the quantities are not mentioned shall not be filled up.

vi) In case of any errors/omissions in the quoted rates, the rates given in the tender marked "original" shall be taken as correct rates.

No modifications, overwriting or corrections can be made in the tender papers by the tenderer, but he may at his option offer his comments or modifications in a separate sheet of paper attached to the original tender papers.

The employer reserves the right to reject the lowest or any tender and also to discharge any or all of the tenders for each section or to split up and distribute any item of work to any specialist firm or firms, without assigning any reason.

The ECGC Ltd reserves the right to accept the tender in full or in part and the tenderer shall have no claim for revision of rate or other conditions if his tender is accepted in parts.

The tenderers should note that the tender is strictly on the item rate basis and their attention is drawn to the fact that the rates for each and every item should be correct workable and self-supporting. If called upon by the employer detailed analysis of any or all the rates shall be submitted by the contractor. The employer shall not be bound to recognize the contractor's analysis.

The works will be paid for as "measured work" on the basis of actual work done and not as "lump sum" contract.

All items of work described in the schedule of quantities are to be deemed and paid as complete works in all respects and details including preparatory and finishing works involved directly related to and reasonably detectable from the drawings, specifications and schedule of quantities and no further extra charges will be allowed in this connection. In the case of lump sum charges in the tender in respect of any item of works, the payment of such items of work will be made for the actual work done on the basis of lump sum charges as will be assessed to be payable by the employer.

The employer has power to add to, omit from any works as shown in drawings or described in specifications or included in schedule of quantities and intimate the same in writing but no addition, omission or variation shall be made by the contractor without authorization from the Employer. No variation shall vitiate the contract.

The tenderer shall note that his tender shall remain open for consideration for a period of 90 days from the date of opening of the tender (Envelope No. 2).

5.5 AGREEMENT

The successful contractor may be required to sign agreement as may be drawn up to suit local conditions and shall pay for all stamps and legal expenses, incidental thereto.

5.6 PHOTOGRAPHS

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The contractor shall supply the Architect & Employer weekly with well executed uncounted photographs 4 (four) No. of size 200 x 250mm in duplicate showing the progress of the works and also such particular section of the works, site plan, machinery or materials as the Engineer may direct within his quoted prices.

5.7 GOVERNMENT AND LOCAL RULES

The contractor shall conform to the provisions of all local By-laws and acts relating to the work and to the regulations etc. of the Government and local authorities and of any company with whose system the structure is proposed to be connected. The contractor shall give all notices required by said act, rules, regulations and Byelaws etc. and pay all fees payable to such authorities for execution of the work involved. The cost, if any, shall be deemed to have been included in his quoted rates, taking into account all liabilities for licenses, fees for footpath encroachment and restorations etc. He shall indemnify the employer against such liabilities and shall defend all actions arising from such claims or liabilities.

5.8 TAXES AND DUTIES

The tenderers must include in their tender prices quoted for all duties, royalties, cusses and sales tax, or any other taxes or local charges, if applicable. However, work contract tax shall be deducted at source at the specific rate in state legislative, if applicable. The certificate in respect of T.D.S. shall be issued by the ECGC Ltd as per rate. No claim whatsoever on this account shall be entertained.

5.9 PROVISIONAL SUM (P.S.)

All provisional sums described in the schedule of quantities as P.S. shall be exclusively allotted to the purchase of materials and not for any handling and fixing to be done by the contractor. Such costs of handling and fixing with profit (including transport charges if required) shall be separately included in the contract price as described in the schedule of quantities. The disposal of the amounts covered under this head will be absolutely at the discretion of the employer. Contractor is to make payments for these materials to the suppliers on certificate or order issued by the employer and realize them through his bills from the employer.

5.10 QUANTITY OF WORK TO BE EXECUTED

The quantities shown in the schedule of quantities are intended to cover the entire new structure indicated in the drawings but the Employer reserves the right to execute only a part or the whole or any excess thereof without assigning any reason therefore.

5.11 OTHER PERSONS ENGAGED BY THE EMPLOYER

The employer reserves the right to execute any part of the work included in this contract or any work which is not included in this contract by other agency or persons and contractor shall allow all reasonable facilities and use of his scaffolding for the execution of

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such work. However the contractor shall employ "A" grade Licence holder Electrical contractor to complete the electrical work in the scope of the tender

5.12 EARNEST MONEY AND SECURITY DEPOSIT

The tenderer will have to deposit an amount of RS 20000.00 (Rupees Twenty Thousand Only) in the form of Bank draft drawn in favour of ECGC Ltd., Branch Office Raipur, at the time of submission of tender as an Earnest Money. The employer is not liable to pay any interest on the Earnest Money. The Earnest Money of the unsuccessful tenderers will be refunded without any interest soon after the decision to award the work is taken or after the expiry of the validity period of the tender.

The successful tenderer to whom the contract is awarded will have to deposit an initial security deposit, a further sum to make up 2% of the value of the accepted tender including the Earnest Money. The initial Security Deposit will have to be made by the contractor to the ECGC Ltd within 14 days of acceptance of award letter, failing which the employer at his discretion may revoke the letter of acceptance and forfeit the earnest money deposit furnished along with the tender. The initial security deposit shall be accepted in the form of Demand draft and not by ECGC Ltd Guarantee. The initial security will be refunded to the contractor within fourteen days after the issue of certificate of virtual completion.

Apart from the initial security deposit made as above, retention money shall be deducted from the progressive running bills at 10% of the gross value of each running bill. However the retention money on secured advance payable will not be deducted.

The retention amount will be refunded to the contractor fourteen days after the defect liability period. Provided the contractor has satisfactorily carried out all the works and to all the defects in accordance with the conditions of contract. No interest is allowed on Retention Money.

5.13 CONTRACTOR TO PROVIDE EVERYTHING NECESSARY

The contractor shall provide everything necessary for the proper execution of the work according to the intent and meaning of the drawings, 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 and if the contractor finds any discrepancies therein, he shall immediately and in writing refer the same to the employer whose decision shall be final and binding.

The rates quoted against individual items will be inclusive of everything necessary to complete the said items of work within the contemplation of the contract and beyond the unit price. No extra payments will be allowed for incidental or contingent work, labour and/or materials inclusive of all taxes and duties whatsoever except for specific taxes, if any, stipulated in the tender documents.

The contractor shall supply, fix and maintain at his own cost for the execution of any work, all tools tackles, machinery and equipment's and all the necessary scaffolding, ,

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watching and lighting by night as well as by day required not only for the proper execution and protection of the said work but also for the protection of the public and safety of any adjacent roads, streets, walls, houses, buildings, all other erections, matters and things and the contractor shall take down and remove any or all such scaffolding, etc. as occasion shall be required or when ordered to do so and shall fully reinstate and make good all matters and things distributed during the execution of works to the satisfaction of the Employer/Architect.

The Contractor shall at all times give access to workers employer by the Architect / Employer or any men employed on the buildings and to provide such parties with proper sufficient and if required special scaffolding, hoists and ladders and provide them with water and lighting and leave or make any holes, grooves etc. in any work where directed by the employer as may be required to enable such workmen to lay or fix pipes, electrical wiring, special fittings etc. The quoted rates of the tenders shall accordingly include all these above mentioned contingent works.

5.14 TIME OF COMPLETION, EXTENSION OF TIME & PROGRESS CHART

5.14.1 Time of completion

The entire work is to be completed in all respects within the stipulated period. The date of commencement will be SEVEN days from the date of acceptance letter issued to the contractor or the day on which contractor is instructed to take possession of site, whichever is latter. Time is the essence of the contract and shall be strictly observed by the contractor.

The work shall not be considered as completed until the Employer have certified in writing that work has been completed and the defects liability period shall commence from the date of such certificate.

5.14.2 Extension of Time

If, in the opinion of the Employer/Architect the works be delayed

- a) by reason of any exceptionally inclement weather, or
- (b) by reason of instruction from the employer in consequence of proceedings taken
- of threatened by or disputes, with adjoining or neighbouring owners or
- (c) by the works, or delay, of other contractors or tradesmen engaged or nominated by
- the Employer and not referred to in the specification or
- (d) by reason of authorised extra and additions or
- (e) by reason of any combination of workmen or strikes or lockout effecting any of the building trades or
- (f) from other causes which the employer may consider are beyond the control of the
- contractor, the Employer at the completion of the time allowed for the contract, shall

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make fair and reasonable extension of the time for completion in respect therefore.

In

the event of the Employer failing to give possession of the site upon the day specified

above the time of completion shall be extended suitably.

In case of such strikes or lockouts, as are referred to above, the contractor, shall immediately give the employer, written notice thereof. Nevertheless, the contractor shall use his best endeavors all that to prevent delay, and shall do all that may be reasonably required, to the satisfaction of the employer to proceed with the works and on his doing so that it will be ground of consideration by the employer for an extension of time as above provided. The decision of the Employer as to the period to the allowed for an extension of time for completion hereunder (which decision shall be final and binding on the contractor) shall be promulgated at the conclusion of such strike or lockout and the employer shall then, in the event of an extension being granted, determine and declare the final completion date. The provision in clause 5.15 with respect to payment of liquidated damages shall, in such case, be read and construed as if the extended date fixed by the employer were substituted for and the damage shall be deducted accordingly.

5.14.3 Progress of work

During the period of construction the contractor shall maintain proportionate progress on the basis of a programme chart submitted by the contractor immediately before commencement of work and agreed to by the employer/Architect. Contractor should also include planning for procurement for scarce material well in advance and reflect the same in the programme chart so that there is no delay in completion of the project.

5.15 LIQUIDATED DAMAGES

Should the work be not completed to the satisfaction of the Employer/Architect within the stipulated period, the contractor shall be bound to pay to the employer a sum calculated as given below by way of liquidated damages and not as penalty during which the work remains un-commenced or unfinished after the expiry of the completion date.

0.5% of the tendered amount shown in the tender per week subject to ceiling of 5% of the accepted contracted sum.

5.16 TOOLS, STORAGE OF MATERIALS, PROTECTIVE WORKS AND SITE OFFICE REQUIREMENTS

5.16.1 The contractor shall provide, fix up and maintain in an approved position proper office accommodation for the contractor's representative and staff, which offices shall be open at all reasonable hours to receive instruction, notices or communication and clear away on completion of the work and make good all work disturbed.

All drawings maintained on the site are to be carefully mounted on boards of appropriate size and covered with a coat of approved varnish. They are to be protected from ravages of termites, ants and other insects.

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The contractor shall provide at site at his own cost all artificial light required for the work and to enable other contractors and subcontractors to complete the work within the specified time.

The Contractor shall provide a suitable temporary hut for the watchmen and clear away the same when no longer required and to provide all necessary attendants, lights etc. required.

The contractor shall arrange for temporary latrines for the use of workers and field staff and keep the same in a clean sanitary condition to the satisfaction of the Public Health Authorities and shall cause such latrines and soil to be cleared away whenever necessary and shall make good all the works disturbed by these conveniences.

Every precaution shall be taken by the contractor to prevent the breeding of mosquitoes on the works during the construction and all receptacles, cisterns, water tanks etc. used for the storage of water must be suitably protected against breeding of mosquitoes. The contractor shall indemnify the employer against any breach of rules in respect of anti-malarial measures.

The contractor shall not fix or place any placards or advertisement of any description or permit the same to be fixed or placed in or upon any boarding, gantry, building structure other than those approved by the Employer.

5.16.2 Protective Measures

The contractor from the time of being placed in possession of the site must make suitable arrangements for watching, lighting and, protecting the work, the site and surrounding property by day, by night, on all days including Sundays and other holidays.

Contractor shall indemnify the employer against any possible damage to the building, roads, or member of the public in course of execution of the work.

The contractor shall provide necessary temporary enclosures, gates, entrance etc. for the protection of the work and materials and for altering and adopting the same as may be required and removing on completion of the works and making good all works disturbed.

5.16.3 Storage of materials

The contractor shall provide and maintain proper sheds for the proper storage and adequate protection of the materials etc., and other work that may be executed on the site including the tools and materials of subcontractors and remove same on completion.

5.16.4 Tools

All instruments like steel tape etc. which is found necessary for the works shall be provided by the contractor for due performance of the contract.

All measuring tapes shall be of steel and suitable scaffolding and ladders that may be require for safety taking measurements and shall be supplied by the contractor.

The Mistry's and the supervisors on the works shall carry with them always a one metre or two metre steel tapes, a measuring tape of 30 metres, a spirit level, a plumb bob and a

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square and shall check the work to see that work is being done according to the drawings and specifications. The site engineer will use any or all measuring instruments or tools belonging to the contractor as he chooses for checking the works executed or being executed on the contract.

The contractor should cover in his rates for making provisions for all reasonable facilities for the use of his scaffolding, tools and plants etc. by subcontractors for their work.

5.17 NOTICE AND PATENTS OF APPROPRIATE AUTHORITY AND OWNERS

The Contractor shall confirm to the provisions or any acts of the legislature relating to the work, and to the regulations and By-Laws of any authorities, and / or any water, lighting and other companies, and / or authorities with whose system the structures were proposed to have constructed and shall before making any variation from the drawings or specifications that may be associated to so confirm, give the Employer/Architects written notice, specify the variations proposed to be made and the reasons for making them and apply for instructions thereon. the Employer on receipt of such intimation shall give a decision with a reasonable time.

The Contractors shall arrange to give all notices required for by the said acts, regulations or By-laws to be given to any authority, and to pay to such authority or to any public officer all fees that may be properly chargeable in respect of the work and lodge the receipts with the Employer

The contractor shall indemnify the employer against all claims in respect of patent rights, royalties, damages to buildings, roads or member of public in course of execution of work and shall defend all actions arising from such claims and shall keep the employer saved harmless and indemnified in all respects from such actions, costs and expenses.

5.18 CLEARING SITE AND SETTING OUT WORKS

The contractor shall set out the works and shall be responsible for the true and perfect setting out of the work 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 parts of the works the contractor shall at his own expenses rectify such error, if called upon to the satisfaction of the employer. The contractor shall further set out the work to the alternative positions at the site until one is finally approved and the rates quoted in his tender should include for this and no extra on this account will be entertained.

5.19 ACCESS

Any authorized representative of the employer/architect shall at all reasonable 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 work and also to any place where the materials are lying or from where they are being obtained, and the contractor shall give every facility to the ECGC Ltd or their representatives necessary for inspection and examination and test of the materials and workmanship. Except the representatives of the employer, no person shall be allowed at any time without the written permission of the

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employer.

5.20 MATERIALS, WORKMANSHIP, SAMPLES, TESTING OF MATERIALS

All the works specified and provided for in the specifications or which may be required to be done in order to perform and complete any part thereof shall be executed in the best and most workman like manner with materials of the best and approved quality of the respective kinds in accordance with the particulars contained in and implied by the specifications and as represented by the drawings or according to such other additional particulars and instructions as may from time to time be given by the Employer/Architect during the execution of the work, and to his entire satisfaction.

If required by the Employer/Architect the contractor shall have to carry out tests on materials and workmanship in approved materials testing laboratories or as prescribed by the employer at his own cost to prove that the materials etc. under test confirming to the relevant IS standards or as specified in the specifications. The necessary charges for preparation of mould (in case of concrete cube), transporting, testing etc. shall have to be borne by the contractor. No extra payment on this account would in any case be entertained.

All the materials (except where otherwise described) stores and equipment required for the full performance of the work under the contract must be provided through normal channels and must include charge for import duties, sales taxes, octroi and other charges and must be the best of their kind available and contractor/s must be entirely responsible for the proper and efficient carrying out of the work. The work must be done in the best workman like manner. Samples of all materials to be used must be submitted to the Employer/Architect when so directed by the Engineer/Architects and written approval from Employer/Architect must be obtained prior to placement of order. The approved samples shall be kept with the Employer till the completion of work.

Should the work be suspended by reason of rain, strike, lockouts or any other cause, the contractor shall take all precautions necessary for the protection of work and at his own expenses shall make good any damage arising from any of these causes.

The contractor shall cover up and protect from damage, from any cause, all new work and supply all temporary doors, protection to windows, and any other requisite protection for the execution of the work whether by himself or special tradesmen or subcontractor and any damage caused must be made good by the contractor at his own expenses.

5.21 REMOVAL OF IMPROPER WORK

The employer shall during the progress of the work have power to order in writing from time to time the removal from the work within such reasonable time or times as may be specified in the order of any materials which in the opinion of the Employer/Architect are not in accordance with specification or instructions, the substitution or proper re-execution of any work executed with materials or workmanship not in accordance with the drawings and specifications or instructions. In case the contractor refuses to comply with the order the employer shall have the power to employ and pay other agencies to

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carry out the work and all expenses consequent thereon or incidental there to as certified by the employer shall be borne by the contractor or may be deducted from any money due to or that may become due to the contractor. No certificate which may be given by the Architects shall relieve the contractor from his liability in respect of unsound work or bad materials.

5.22 SITE ENGINEER

The term "Site Engineer" shall mean the person posted at site by Architect/Employer to superintend the work. The contractor shall afford the Site Engineer every facility and assistance for examining the works and materials for checking and measuring work and materials. The Site Engineer shall have no power to revoke, alter, enlarge or relax any requirements of the contractor or to sanction any day work, additions, alterations, deviations, or omissions or any extra work whatever, except in so far as such authority may be specially conferred by a written order of the Employer.

The Site Engineer shall have power to give notice to the contractor or to his foreman 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 employer is obtained. The work will from time to time be examined by the Architects, Engineer from the premises department of the Employer and the Site Engineer. But such examination shall not in any way exonerate the contractor from the obligation to remedy and defects which may be found to exist at any stage of the work or after the same is complete. Subject to the limitations of this clause the contractor shall take instructions only from the Employer.

5.23 CONTRACTOR'S EMPLOYEES

The Contractor shall employ technically qualified and competent supervisors for the work who shall be available (by turn) through out the working hours to receive and comply with instructions of the Employer/Architects. The contractor shall engage at least one experienced Engineer as site-in-charge for execution of the work. The contractor shall employ in connections with the work persons having the appropriate skill or ability to perform their job efficiently.

The contractor shall employ local laborers on the work as far as possible.

No laborers below the age of sixteen years and who is not an Indian National shall be employed on the work.

Any laborer supplied by the contractor to be engaged on the work on day work basis either wholly or partly under the direct order or control of the Employer or his representative shall be deemed to be a person employed by the contractor.

The contractor shall comply with the provisions of all labor legislation's including the requirements of :

- a) The payment of Wages Act.
- b) Employer's Liability Act.
- c) Workmen's Compensation Act.

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d) Contractor Labor (Regulation & Abolition) Act, 1970 and Central Rules 1974.

e) Apprentices Act 1961.

f) Any other Act or enactment relating thereto and rules framed there under from time to time.

The contractor shall keep the Employer saved, harmless and indemnified against claims if any of the workmen or any other person and all costs and expenses as any be incurred by the Employer in connection with any claim that may be made by any workman or any other person.

The contractor shall comply at his own cost with the order of requirement of any Health Officer of the state or any local authority or of the Employer regarding the maintenance of proper environmental sanitation of the area where the contractor's laborers are housed or accommodated, for the prevention of small pox, cholera, plague, typhoid, malaria and other contagious diseases. The contractor shall provide maintain and keep in good sanitary condition adequate sanitary accommodation and provide facilities for pure drinking water at all times for the use of men engaged on the works and shall remove and clear away the same on completion of the works. Adequate precautions shall be taken by the contractor to prevent nuisance of any kind on the works or the lands adjoining the same.

The contractor shall arrange to provide first aid treatment to the laborers engaged on the works. He shall within 24 hours of the occurrence of any accident at or about the site or in connection with execution of the works, report such accident to the employer and also to the competent authority where such report is required by law.

5.24 DISMISSAL OF WORKMEN

The contractor shall on the request of the employer immediately dismiss from works any person employed thereon by him who may in the opinion of the employer be unsuitable or incompetent or who may misconduct himself. Such discharges shall not be the basis of claim for compensation or damages against the employer or any of their officers or employee.

5.25 ASSIGNMENT

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 nor, shall take a new partner without written consent of the employer and no subletting shall relieve the contractor from the full and entire responsibility of the contract or from active superintendence of the work during their progress.

5.26 DAMAGE TO PERSONS AND PROPERTY INSURANCE ETC.

The contractor shall be responsible for all injury to the worker or workmen or persons, or things and for all damages to the project works, materials, equipments, structural and/or decorative part of property which may arise from the or neglect of himself or of any subcontractor or any of his or a subcontractor's employees whether such injury or damage

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arise from carelessness, accident or any other cause whatsoever in any way connected with the carrying out of this contract. The clause shall be held to include interlaid any damage to buildings whether immediately adjacent or otherwise and any damage to roads, streets, foot paths or ways as well as damages caused to the buildings and the works forming the subject of this contract by rain, wind or other inclemency of the weather. The contractor shall indemnify the employer and hold harmless in respect of all and any expenses arising from any such injury or damages to persons or property as aforesaid and also in respect of any claim made in respect of injury or damage under any acts of compensation or damage consequent upon such claim.

The contractor shall reinstate, rectify and remedy all damages of every sort mentioned in this clause so as to deliver the whole of the contract works complete and perfect in every respect and so as to make good or otherwise satisfy all claims for damages to the property or third parties.

The contractor shall effect the insurance necessary and indemnify the employer entirely from all responsibility in this respect. The insurance must be placed with company approved by the employer and must be effected jointly in the name of the contractor and the employer and the policy lodged with the latter. The scope of insurance is to include damage or loss to the contract itself till this is made over in a complete state. Insurance is compulsory and must be effected for the very initial stage. The contractor shall also be responsible for anything which may be excluded from the damage to any property arising out of incidents, negligence or defective carrying out of this contract.

The employer shall be at liberty and hereby empowered to deduct the amount of any damages, compensations, costs, charges and expenses arising or accruing from or in respect of any such claim or damages from any sums including the total security deposit due or to become due to the contractor.

5.27 INSURANCE

Unless otherwise instructed the contractor shall insure the works for all risk (include fire, flood, earthquake & third party) of the contractor for total tender value and keep them insured until the virtual completion of the contract against any loss or damage of the material and of the project. The insurance must be placed with a company approved by the Employer in the joint names of the Employer and the contractor for such amount and for any further sum if called to do so by the Employer. The premium of such further sum being allowed to the contractor as an authorized extra. The contractor shall deposit the policy and receipt premium paid with the Employer within FIFTEEN one days from the date of issue of work order unless otherwise instructed. In default of the contractor insuring as provided above the Employer on his behalf may so insure and may deduct the premiums paid from any money due, or which may become due to the contractor. The contractor shall as soon as the claim under the policy is settled or the work reinstated by Insurance Company should they elect to do so, proceed with due diligence with the completion of the works in the same manner as though the fire has not occurred and in all respects under the conditions of the contract. The Contractor in case of rebuilding or reinstatement after fire shall be entitled to extension of time for completion as the

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Employer may deem fit.

5.28 ACCOUNTS RECEIPT & VOUCHERS

The contractor shall, upon the request of the employer furnish them with all the invoices, accounts, receipts and other vouchers that they may require in connection with the works under this contract. If the contractor shall use materials less than what he is required under the contract, the value of the difference in the quantity of the materials he was required to use and that he actually used shall be deducted from his dues. The decision of the employer shall be final and binding on the contractor as to the amount of materials. The contractor is required to use for any work under this contract.

Before taking any measurement of any work the site Engineer or a subordinate deputed by him shall give reasonable notice to the contractor. If the contractor fails to attend at the measurements after such notice or fails to countersign or to record the difference within a week from the date of measurement in the manner required by the Site Engineer then in any such event the measurements taken by the Site Engineer or by the subordinate deputed by him as the case may be is final and binding on the contractor and the contractor shall have no right to dispute the same.

5.29 PAYMENTS

All bills shall be submitted by the contractor in the form prescribed by the employer. Normally one interim bill shall be prepared each month subject to minimum value for interim certificate as stated in these documents. The bills in proper forms must be duly accompanied by detailed measurements in support of the quantities of work done and must show deductions for all previous payments, retention money etc. The bill shall be checked at site by site Engineer and thereafter the Architect shall issue a certificate after due scrutiny of the contractor's bill which may be further verified by the Employer and the contractor shall be entitled to payment there of, within the period of honoring certificates named in these documents, as per final verified amount by the Employer.

The amount as stated in an interim certificate shall be the total value of work properly executed and secured advance on the materials as described under the heading of secured advance less the amount to be retained by the employer as retention money vide clause 5.12 of these conditions and less installments previously paid under these conditions, provided the such certificate shall only include the value of said material and goods as and from such time as they are reasonably, properly and not prematurely brought to or placed adjacent to the work and then only if adequately protected against weather or other casualties.

The employer will deduct retention money as described in clause 5.12 of these conditions. The refund of retention money will be made as specified in the said clause.

If the employer has supplied any materials or goods to the contractor, the cost of any such materials or goods will be progressively deducted from the amount due to the contractor in accordance with the quantities consumed in the work.

All the interim payments shall be regarded as payment by way of advance against the final

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payments only and not as payments for work actually done and completed and shall not preclude the requiring of bad unsound and imperfect or unskilled work to be removed and taken away and reconstructed or re-erected or to be considered as an admission of the due performance of the contract or any part thereof in any respect or the accruing of any claim, nor shall, it conclude determine or affect in any way the powers of the employer under these conditions or any of them as to the final settlement and adjustment of the accounts or otherwise or in any other way vary or affect the contract. The final bill shall be submitted by the contractor within one month of the date fixed for completion of the work or of the date of certificate of virtual completion furnished by employer and payment shall be made within six weeks after issue of certificate of the Architect.

5.31 FINAL PAYMENTS

The period of Final Measurements will be One Month from date of Completion, The final bill shall be accompanied by a certificate of completion from the Employer, payments of final bill shall be made after deduction of Retention Money as specified in clause 5.12 of these conditions, which sum shall be refunded after the completion of the Defects Liability Period after receiving the Employer and Architect's certificate that the contractor has rectified all defects to the satisfaction of the Employer and Architects. The acceptance of payments of the final bill by the contractor would indicate that he will have no further claim in respect of the work executed.

5.32 VARIATION/DEVIATIONS

The contractor may when authorized and shall, when directed in writing by the employer add or omit, or vary the works shown in the drawings or described in the specifications or included in the priced schedule of the quantities. The contractor on his own accord shall make no addition, omission or variation without such authorization of direction. A verbal authorization of direction by the employer shall when confirmed correctly by the contractor in writing within 3 days shall be deemed to have been given in writing.

The contractor shall send to the Architect/Employer once in every Month a statement giving particulars, as full and detailed as possible, of all claims for any additional payment to which the contractor may consider himself entitled and of all extra or additional work ordered by the employer which he has executed during the preceding month.

No final interim claim for payment for any such work or expense, will be considered which has not been included in such a statement provided always that the Architect shall be entitled after taking employer's sanction to authorize payment to be made for any such work or expense, not withstanding the contractor's failure to comply with this condition, if the contractor has, at the earliest practicable opportunity, notified the Architect in writing that he intends to make a claim for such work.

The rates for additional, altered, substituted work shall be arrived at in accordance with the following rules : i) The net rates or prices in the contract schedule shall determine the valuation of (the rates for) the extra work (items) where such extra work is of similar character and is executed under similar conditions as the work priced therein.

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ii) If the rates for the extra, altered or substituted or (deviated) work are not provided for (available) in the schedule of quantities, they shall to the extent possible be derived out of rate given in that schedule for similar or near similar items. For the purpose of such deviation, where necessary and when so directed, the contractor shall furnish detailed analysis for the said similar or near similar items in the contract schedule. For such portions of the analysis, for the extra, altered or substituted (deviated) work for which prices cannot be abstracted from the corresponding analysis of rates for the said similar or near similar items in the contract schedule, market rates substantiated by purchase bills/vouchers dependable printed price schedule of building materials of different type shall be adopted, using factors and constants for quantum of materials, labour, T & P and sundries, form standard analysis of rates adopted by the National Building Organisation, Ministry of Works and Housing, Government of India in preparation of All India Standard Schedule of Rates, 1977/DAR and adding 15% over towards profit and overheads. When called upon to do so, the contractor shall submit the required purchase bills/vouchers.

iii) In respect of a contract which incorporates more than one schedule, the rate applicable in case (i) above if not provided for in the schedule pertaining to the work in which the addition, alteration or substitution (deviation) occurs, shall be taken as the lowest applicable rate in other schedules. Similarly in case (ii) above if similar in near similar items cannot be found in the schedule pertaining to the work in which the addition, alteration or substitution (deviation) occurs, similar or near similar items from the other schedule shall be adopted.

iv) In the case of additional, altered substituted (deviated) for which rates cannot be reasonably be derived as at

(ii) and (iii) above, the rates shall be worked out adopting market prices, substantiated by purchase bills/vouchers using factors and constants for quantum of materials, labour, T & P and sundries from standard analysis of rates adopted by the National Building Organisation, Ministry of Works and Housing, Government of India in preparation of All India Standard Schedule of Rates, 1977/DAR and adding 15% over towards profit and overheads. When called upon to do so the contractor shall submit his purchase bills/vouchers to the Architect's and Employer.

v) The question as to what particular items, being similar or near similar to the additional, altered or substituted (deviated) work in the contract schedule are to be adopted for deviation of rates for the additional, altered for substituted deviated work and whether the said rates cannot be derived from similar or near similar items in the contract schedule will decided by the employer.

vi) In case (ii) to (iv) the contractor is required to submit his analysis of rates adopting the principles enunciated and the Architect, after scrutinising the analysis any other papers furnished will allow such rates as he considers reasonable after obtaining Employer's sanctions.

vii) Where extra work is of such a nature that it cannot be properly measured or valued,

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the contractor shall be allowed day work priced at the net rates stated in the tender or the priced schedule of quantities or if not so stated then in accordance with the minimum local day work rates and wage for the district notified by the concerned authority provided that in either case if required by the Architects, vouchers, muster rolls and other documents, required for proper verification of the labour employed and the materials deployed on the said work and the costs thereof be delivered to the Site Engineer, Architect or his representative on or before the end of the week following that in which the work has been executed.

The question as to whether extra work is of such nature that it cannot be properly measured or valued will be decided by the Architects and Employer. The margin to be allowed on actual costs to the contractor towards profit and overhead shall be 15%.

5.33 DEVIATION LIMIT FOR TENDER QUANTITIES BEYOND 25%

The tender rates shall hold good for any increase in the tendered quantities upto variation of 25%. In case tender quantities of an individual item exceeds the deviation limit of 25% the rates for the excess quantities over and above the deviation limit shall be payable as per market rate analysis, sustained by purchase vouchers/bill using constant only of materials, labour, T & P etc. from all Indian Standard analysis of rates published by NBO/DAR with 15% contractor's profit and overheads. For non schedule items, constant of material, labour, T & P etc. shall be decided by the Engineer in-charge of Employer, and Architect based on the actual observation at site.

5.34 SUBSTITUTION

Should the contractor desire to substitute any materials and workmanship, he/they must obtain the approval of the Architect/Employer in writing for any such substitution well in advance. Materials designated in this specification indefinitely by such terms as "Equal" or "other approved" etc., specific approval of the Employer/Architect has to be obtained in writing.

5.36 CLEARING SITE ON COMPLETION

On completion of the works, the contractor shall clear away and remove from the site all constructional plant, surplus materials, rubbish and temporary works of every kind and leave the whole of the site and the works clean and in a workmanlike condition to the satisfaction of the Employer and Architects.

5.37 DEFECTS AFTER COMPLETION

The defects liability period (D.L.P.) shall commence from the certified date of virtual completion issued jointly by the ECGC Ltd /Architects. The contractor shall make good at his own cost and to the satisfaction of the employer all defects, shrinkages or other faults which may appear within 12 months after completion of the work. In default, the employer may employ and pay other persons to amend and make good such damages, losses and expenses consequent thereon or incidental thereto shall be made good and borne by the contractor and such damages, losses and expenses shall be recoverable from him by the employer or may be deducted by the employer, in lieu of such amending and making good by the contractor, deduct from any money due to the contractor a sum equivalent to

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the cost of amending such work and in the event of the amount retained being insufficient, recover that balance from the contractor from the amount retained under clause No. 5.12 together with any expenses the Employer may have incurred in connection therewith.

5.38 CONCEALED WORK

The contractor shall give due notice to the Employer and Architects whenever any work is to be buried in the earth, concrete or in the bodies of walls or otherwise becoming inaccessible later on, in order that the work may be inspected and correct dimensions taken before such burial, in default whereof the same shall, at the option of the Employer/Architect be either opened up for measurement at the contractor's expense or no payment may be made for such materials. Should any dispute or differences arise after the execution of any work as to measurements etc., or other matters which cannot be conveniently tested or checked, the notes of the Employer shall be accepted as correct and binding on the contractor.

5.39 IDLE LABOUR

Whatever the reasons may be, no claim for idle labour, additional establishment cost of hire and labour charges of tools and plants would be entertained under any circumstances.

5.40 SUSPENSIONS

If the contractor, except on account of any legal restraint upon the Employer preventing the continuance of the work, abandons, suspends work or in the opinion of the Employer, the contractor neglects or fails to proceed with due diligence in the performance of his part of the contract, the Employer shall have the power to give notice in writing to the contractor requiring the work be proceeded within a reasonable manner and with reasonable dispatch, such notices purport to be a notice under this clause.

After such notice shall have been given the contractor shall not be at liberty to remove from the site of the works or from any ground contiguous thereto any plant or materials to subsist from the date of such notice being given until the notice shall have been complied with. If the contractor shall fail for 7 (seven) days after such notice has been given to proceed with the works as therein prescribed, the Employer may proceed as provided in clauses 5.41 (Termination of contract by Employer).

5.41 TERMINATION OF CONTRACT BY EMPLOYER

The contractor being a company go into liquidation whether voluntary or compulsory or being a firm shall be dissolved or being an individual shall be adjudicated insolvent or shall make an assignment or a composition for the benefit of the greater part, in numbers or amount of his creditors or shall enters into a Deed or arrangement with his creditors or if the official assignee in insolvency of the receiver of the contractor in insolvency, shall repudiate the contract, or if a receiver of the contractor's appointed by court shall be unable, within fourteen days after notice to him requiring him to do so, to show to the reasonable satisfaction of the Employer that he is able to carry out and fulfill the contract, and if so required by the employer to give reasonable security therefor, or if the contractor shall suffer execution to be issued, or shall suffer any payment under this contract to be

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attached by or on behalf of and the creditors of the contractor, or shall assign charge or encumber this contract or any payments due or which may become due to the contractor thereunder, or shall neglect or fail to observe and perform all or any of the acts matters of things by this contract to be observed and performed by the contractor within three clear days after the notice shall have been given to the contractor in manner hereinafter mentioned requiring the contractor to observe or perform the same or shall use improper materials or workmanship in carrying on the works, or shall in the opinion of the employer not exercised such due diligence and make such due progress as would enable the work to be completed within due time agreed upon, and shall fail to proceed to the satisfaction of the employer after three clear days notice requiring the contractor so to do shall have been given to the contractor as hereinafter mentioned, or shall abandon the contract, then and in any of the said cases, the ECGC Ltd may notwithstanding previous waiver determine the contract by a notice in writing to the effect as hereinafter mentioned, but without thereby effecting the powers of the employer of the obligations and liabilities of the contractor the whole of which shall continue in force as fully as if the contract, had not been so determined and as if the works subsequently executed had been executed by or on behalf of the contractor (without thereby creating any trust in favour of the contractor). Further the employer or his agent, or servants, may enter upon and take possession of the work and all plants, tools, scaffolding, sheds, machinery, steam and other power utensils and materials lying upon premises or the adjoining lands or roads and sell the same as his own property or may employ the same by means of his own servants and workmen in carrying on and completing the works or by employing any other contractors or other persons or person to complete the works and the contractor shall not in any way interrupt or do any act, matter of thing to prevent or hinder such other contractors or other persons or person employed from completing and finishing or using the materials and plants for the works when the works shall be completed, or as soon thereafter as conveniently may be, the employer shall give notice in writing to the contractor to remove his surplus materials and plants and should the contractor fail to do so within a period of fourteen days after receipt by him. The employer may sell the same by Public Auction and shall give credit to the contractor for the amount so released. Any expenses or losses incurred by the employer in getting the works carried out by other contractors shall be adjusted against the amount payable to the contractor by way of selling his tools and plants or due on account of work carried out by the contractor prior to engaging other contractors or against the Security Deposit.

5.41 ARBITRATION

All disputes or differences of any kind whatsoever which shall at any time arise between the parties hereto touching or concerning the works or the execution or maintenance thereof of this contract or the rights touching or concerning the works or the execution of maintenance thereof of this contract or the construction remaining operation or effect thereof or to the rights or liabilities of the parties or arising out of or in relation thereto whether during or after determination for closure or Breach of the contract (other than those in respect of which the decision of any person is by the contract expressed to the

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final and binding) shall after written notice by either party to the contract to the other of them and to the Employer hereinafter mentioned be referred for adjudication to a sole arbitrator to be appointed as hereinafter provided.

For the purpose of appointing the sole Arbitrator referred to above, the employer will send within thirty days of receipt of the notice, to the contractor a panel of three names of persons who shall be presently unconnected with the Organisation for which the work is executed.

The contractor shall on receipt of the names as aforesaid, select any one of the persons named to be appointed as a sole Arbitrator and communicate his name to the employer within thirty days of receipt of the names. The employer shall thereupon without any delay appoint the said person as the Sole Arbitrator. If the contractor fails to communicate such selection as provided above within the period specified, the component authority shall make the selection and appoint the selected person as the Sole Arbitrator.

If the employer fails to send to the contractor the panel of three names as aforesaid within the period specified, the contractor shall send to the employer a panel of three names of persons who shall all be unconnected with either party. The employer shall on receipt of the names as aforesaid select any one of the persons named and get appointed him as a Sole Arbitrator. If the employer fails to select the person and appoint him as the Sole Arbitrator within 30 Days of receipt of the panel and inform the contractor accordingly, the contractor shall be entitled to appoint one of the person from the panel as the Sole Arbitrator and communicate his name to the employer.

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 as aforesaid.

The work under the contract shall however continue during the Arbitration proceedings and no payments due or payable to the contractor shall be withheld on account of such proceedings.

The Arbitrator shall be deemed to have entered on the reference on the date he issues notice to both the parties fixing the date of the first hearing.

The Arbitrator may from time to time with the consent of the parties enlarge the time for making and publishing the award.

The Arbitrator shall give a separate award in respect of each dispute or difference referred to him. The Arbitrator shall decide each dispute in accordance with the terms of the contract and give a reasoned award. The venue of Arbitration shall be such place as may be fixed by the Arbitrator on his sole discretion.

The fees, if any, of the Arbitrator shall, if required to be paid before the award is made and published, be paid half and half by each of the parties. The costs of the reference and of the

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award including the fees, if any, of the Arbitrator who may direct to and by whom in what manner such costs or any part thereof shall be paid and may fix or settle the amount of costs to be so paid.

The award to the Arbitrator shall be final and binding on both the parties.

Subject to aforesaid the provisions of the Arbitration Act 1996 or any statutory modification or reenactment thereof and the rules made thereunder and for the time being enforce, shall apply to the Arbitration proceeding under this clause.

The Employer and contractor hereby also agree that arbitration under clause shall be a condition precedent to any right to action under the contract with regard to the matters hereby expressly agreed to be so referred to arbitration.

5.44 EXCEPTED MATTERS FROM ARBITRATION

If the dispute of difference pertains to the under-noted matters (called excepted matters) the decision and inwriting of the Employer shall be final, conclusive and binding on the parties.a) Instructions.b) Transactions with local authorities.c) Proof of quality of materials.d) Assigning or underletting of the contract.e) Certificate as to the causes of delay on the part of the contractor and justifying extension of time.f) Rectifying of defects pointed out during the defects liability period.g) Notice to the contractor to the effect that he is not proceeding with due diligence.h) Certificate that the contractor has abandoned the contract.i) Notice of the determination of the contract by the employer.

5.44 SPECIALISTS WORKS

The Contractor must associate himself with the specialist firm to be approved by the ECGC Ltd ,/ Architect in writing for wooden flooring for Electrical works are to be executed by specialist firms.

5.45 CONTRACT DRAWINGS GENERAL

Two copies of each of the drawings and one copy of each of the condition of contract specification tender preamble and bill of quantities will be provided for the use of the contractor who must satisfy himself as to the accuracy of the said copies in every detail, and make all other copies necessary for the conduct of the work. Any comments on drawings to be given by the contractor within 7 days from receiving of drawings.

One copy of each drawing or sketch furnished to the contractor shall be kept in an office at the works and the Engineer or any person authorised by the Employer shall have free access to the drawings and sketches whenever they desire.

5.46 RIGHTS OF TECHNICAL SCRUTINY BY CHIEF TECHNICAL EXAMINER

The work is liable to be technically audited by the Chief Technical Examiner of the Central Vigilance Commission Government of India from time to time. Any defects, improvements or testing etc. pointed out by the Chief Technical Examiner should be

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carried out by the contractor at his own cost and any deduction suggested by the CTE will be effected.

The Employer shall have a right to cause a technical examination and audit of works and the final bills of the contractor including all supporting vouchers, abstract, etc. to be made at the time of payment of the final bill. If as a result of this examination or otherwise any sum is found to have been over paid in respect of any work done by the contractor under the contract the contractor shall be liable to return the amount of over payment and it shall be lawful for the employer to recover the same from him from any sum or sums due to him and in any other manner legally permissible and if it is found that the contractor was paid less than what was due to him under the contract in respect of any work executed by him under it, the amount of such under payment shall be duly paid by the employer.

Any sum of money due and payable to the contractor (including Security Deposit returnable to him) under this contract may be appropriated by the Employer and set off against any claim of the employer of the payment of a sum of money arising out of or under any other contract made by the contractor with employer.

5.47 WATCHING AND LIGHTING

The contractor shall provide and maintain at his own expense all lights, guards, fencing and watching when and where necessary or required by the Architects and Employer for the protection of the works or for the safety and convenience of those employed on the works or the public.

5.48 CONTROL RECORDS

The under-noted records books at the site of work shall be maintained in addition to normal routine requirements by the contractor. a) Daily progress record. b) Work site order book. c) Instruction by ECGC Ltd 's Officers. d) Test registers of other materials/ fittings fixtures equipments as stipulated in the tender. e) Register of drawings and working details. f) Log book of defects. g) Hindrance register giving details of commencement and removal of each hindrance.

h) Dismantled materials account register. i) Supply and consumption register of scarce / costly materials like laminates special paints white cement, or any material as directed by Architect / Employer.

j) Specifications C.P.W.D. & I.S.I. as applicable to the contract. k) IS : 1200 relating to measurements. l) Conversion Table IS 786. These registers are to be got signed by the Site Engineer on daily basis.

5.49 SECURITY ARRANGEMENT

- (a) Proper arrangements shall be made to keep all records under lock and key.
- (b) It shall be ensured that the contractor provides for adequate fences, watch and ward and security of basic materials such as cement and steel etc.
- (c) Movement of material, stores and plant, especially of those in which the ECGC

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Ltd has got a financial interest or those which influence progress of work, shall be strictly controlled. Checks shall be exercised at gate (entrance and exit shall be preferably through one gate only).

□ (d) When the work is completed and handed over to the user, the responsibility of proper security arrangement shall rest with the users.

5.50 WORKING HOURS

Site officers working hours shall normally be fixed as may be prevailing in the locality.

Normally no construction work of important structural nature shall be carried out on Sundays, Holidays and during nights. In exceptional circumstances, however, the work may be carried out with proper approval of the Site Engineer who shall depute supervision staff to be present on the occasion.

5.51 LABOUR RECORD

The contractor shall maintain relevant records and fulfill all conditions and requirements in accordance with the following Act and Rules made hereunder.

- (a) The Payment of Wages Act.
- (b) Employer's Liability Act.
- (c) Workmen's Compensation Act.
- (d) Contract Labour (Regulation & Abolition) Act, 1970 and Central Rules 1971.
- (e) Apprentices Act 1961.
- (f) Minimum wages Act 1948.
- (g) disputed Act 1947.
- (h) Maternity benefit Act 1961.
- (i) ESI Act.
- (j) Payment of Bonus Act.
- (k) Payment of Gratuity Act.
- (l) Any other Act are enactment relating there to and rules framed there under

from

time to time.

5.53 HANDING OVER BUILDING/PROJECT WORK TO THE ECGC Ltd

Handing and taking over report and inventories/statement (in quadruplicate) at the time of handing over shall be prepared. The reports and inventories shall be signed by :

- (a) The contractor (Only the relevant papers).
- (b) The Site Engineer, and
- (c) Competent authority in the ECGC Ltd .The following inventories/statements

shall be

prepared :

- i. Inventory of furniture (Table, Chairs, Almirah etc.).
- ii.. Inventories of builders hardwares etc.) locks (Riim mortice and cylindrical) and night latches all with duplicate keys.
- iii. Inventory of fixtures & fittings of installations (electrical light fittings, fans,

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bells,
air-conditioning, lifts pumps and the like).

5.54 DELINQUENCIES OF CONTRACTORS

5.54. Procedures for dealing with Delinquencies/ Defaults/ Misconduct/ Misdemeanors of tenderers/ Contractors.

i) The undernoted delinquencies/defaults/misconduct/misdemeanors on the part of tenderer or enlisted contract will attract disciplinary action. a) Incorrect information about credentials, about his performance, equipment, resources, technical staff etc. b) Non-submission of the fresh/latest Income tax clearance certificate. c) Irregular tendering practice. d) Submission of tender containing for too many arithmetical errors and freak rates. e) Revoking a tender without any valid reasons. f) Tardiness in commencing work. g) Poor Organisation at site & lack of his personal supervision. h) Ignoring ECGC Ltd 's notices for replacement/rectification of rejected materials, workmanship etc. i) Violating any of the important conditions of contract, i.e. site facilities, insurance, labour laws, ban on subletting etc. j) Lack of promptitude and cooperation in measurement of work and settlement of final account. k) Non-submission of vouchers and proofs of purchase etc. l) Tendency towards putting up false and untenable claims. m) Tendency towards suspension of work for frivolous reasons. n) Bad treatment of labour. o) Bad treatment of subcontractors (piece workers) and un-business like dealings with suppliers of materials. p) Lack of cooperation with nominated contractors or ECGC Ltd 's labour. q) Contractor becoming ECGC Ltd rupt or insolvent. r) Contractor's conviction by a court of law. s) Failure to satisfactorily rectify defects during Defects Liability Period (DLP) and discovery of latent defects in contractor's work after the expiry of DLP of his contract.

5.55. Disciplinary action against
Delinquencies of) contractor. ii)

Action

The award of the undernoted disciplinary action shall be considered.

a) Placing embargo on issue of tenders of temporary suspension from the ECGC Ltd 's approved list.

b) Permanent ban on issue of tenders & removal from the ECGC Ltd 's approved list.

c) Circulation of the contractor's name to other or Government Department for non Public Under taking entertainment of this publication for contract work.

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SECTION - X

**PREAMBLE TO BILL OF QUANTITIES RATES TO
INCLUDE :**

Rates quoted shall be for the items completed in all respect at all floors/heights/levels including all taxes, octroi and the cost of all materials, fittings, fixtures, all labour and for all the as detailed in the specifications and contract conditions. Apart from other factors mentioned in the specifications and contract conditions, rates quoted for the items in this schedule shall also include the following :

10.1. GENERAL:

10.1.1 Whether mentioned or not in the Bill of Quantities, all works are to be carried out as per the drawings, designs, catalogues and or instructions of the Architects/ ECGC Ltd . Nothing extra shall be paid over the quoted rates for not understanding the designs etc. before hand.

10.1.2 Sample of all works/items shall be got approved from the Architects/ ECGC Ltd before taking the mass production in hand and nothing shall be paid for the cost of samples.

10.1.3 Any incidental work required to complete the item and not specifically covered in the item as mentioned in Bill of Quantities shall be completed at no extra cost.

10.1.4 Unless otherwise specified all exposed surfaces of wood/wooden mouldings and plywood of loose furniture/items tops shall be finished in at least two coats of melamine polish, including staining to match the shades of laminates etc.

10.1.5 Rates for carpeting shall include for fixing of Aluminium grippers over the junction of carpet and/or marble stone flooring.

10.1.6 All laminates for furniture items shall be 1.0 mm thick in Satin finish, colour texture and shade as per the schemes given by the Architects.

10.1.7 Unless otherwise specified, all inner surfaces, sides and under sides of furniture items, drawers/cabinets shall be polished/ Painted flat oil painted as directed by Architects.

10.1.8 All exposed edges of plywood/block boards shall be finished with teak wood lippings 5 mm thick of profile as per detail and Melamine polished unless otherwise specified and no extra cost shall be paid.

10.1.9 All furniture items shall be delivered at site packed in polythene sheets.

10.2. WOOD WORKS:

10.2.1 Wherever ply is mentioned it will mean ply wood.

10.2.2 All Board/Ply will be of BWP Type.

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10.2.3 All teak wood will mean Burma teak.

10.2.4 All prelaminated Boards shall be Novapan, Kitlam, Archidlam.

10.3. HARDWARE:

10.3.1 Necessary handles, tower bolts, ball catchers, stoppers, hinges, brass/GI screws, nails, locks, sliding rails, nut and bolts etc. shall be provided by the Contractor which shall be out of the approved make of these materials annexed in the technical specifications/approved by Architects / ECGC Ltd .

10.4. PAINTING AND POLISHING:

10.4.1 All finishes, shade of colours, texture of fabrics including all surfaces of finishes like POP, painting, lamination, paneling, stitching joints in upholstery, all polishing shall be as per the satisfaction of the Architects/ECGC Ltd .

10.4.2 Thoroughly brushing the surface to be finished, free from mortar dropping and other foreign matter including preparing the surface and sand papering to give an even surface.

10.4.3 For painting and polishing items – on all kinds of wood and wood based surfaces.

10.4.4 All painting work to be completed with at least one coat of the primer along with two coats of the paint as per the Technical Specification, Manufacturer's specification and to the satisfaction of the Architects/ ECGC Ltd .

10.4.5 All the polishing works to be completed with at least two coats of the polish of the approved make as pr the list of approved manufacturers and to the full satisfaction of the Architects/ ECGC Ltd .

10.5. GLASS WORKS:

10.5.1 The edges of glass tops for tables wherever shown shall be beveled as per approval of the Architects.

10.6.1 Rates shall include Aluminium grippers as directed. Rates shall include laying of carpet to required shape with piles in one direction including all wastage, Rate quoted shall be applicable to skirting and steps and net area of laid carpet only shall be measured and paid.

10.7 FALSE CEILING:

10.7.1 Rates should include labour/materials required to suspend the false ceiling with dash fasteners from the reinforcement of the slab and repairing the portion without affecting the structural strength of the slab, also with provision of strip hangers/MS flats and hinged through nuts and bolts of adequate size (Rawl plug shall not be applied). The channels and hangers shall be as per the instructions of the Architects/ECGC Ltd .

10.7.2 Cutouts and openings as required by Architects for provision of lights, switches,

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AC grills and diffusers, sprinklers and providing of trap doors etc. and other fittings in false ceilings and holes and cutouts as required for running conduits in frame work of paneling including cutouts for switches and fittings in the paneling will be made by the Contractor. He will also provide necessary frame work support for fixing of lights AC diffusers grills and fixtures etc. All these above will be made/provided by him at no extra cost and will be deemed to be included in the rates of the items quoted by him.

10.8 PARTITIONS AND PANELLING

- 10.8.1 Quoted rate shall include labour/materials required to fix the sub-frame to the wall with MS flats ('L'/'U') shape clamp with adequate screws and repairing the portion damaged while putting the gutties. etc. and making good the same.
- 10.8.2 Quoted rate shall be inclusive of making provisions for electrical conduits and switch boxes and time required while coordinating with other Contractors for the final finishing of the work.
- 10.8.3 The partition frame work shall be provided upto the RCC slabs at top but measurement for payment shall be of partition upto false ceiling and frame /support of partition above false ceiling shall be carried out within the quoted rate for which no extra shall be paid.
- 10.8.4 All electrical works shall be got carried out through licensed "A" class Electrical Contractor having experience of similar work and duly approved by Architects/ ECGC Ltd . The work shall be executed as per specifications and strictly in keeping with relevant IS code and rules and regulations of authorities.
- 10.8.5 All work/materials will be as per good engineering practice.
- 1 Wherever glass is mentioned it will be clear float glass.

WOOD WORK AND JOINERY:

11.2.1 PLY WOOD:

Ply wood shall be BWP quality phenol bonded as per relevant Indian Standard Specifications with commercial or decorative facing as required. These shall be obtained from approved sources and thickness shall be as shown in drawings.

11.2.2 BLOCK BOARDS:

Block board shall be Grade-I exterior grade bonded with BWP type synthetic phenol bonded adhesives. These shall be of the required thickness and type and obtained from approved sources.

11.2.3 LAMINATE:

Laminates where specified shall be of approved brand type, texture and thickness and manufacturer as per IS:2046-1969.

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Fixing of laminates shall be done as per best trade practices and strictly as per printed instructions of the manufacturers using phenol Formaldehyde Synthetic Resin adhesive of approved make. Unless otherwise indicated laminated shall be 1.5 mm thick of approved make.

11.2.4 JOINERY:

All details shall conform to the drawings, but all measurements shall be checked at site. The scantlings shall be accurately planned and finished smooth to hold full dimensions shown in the drawings after finishing and rebates, roundings and mouldings made before they are framed. No patching or plugging of any kind shall be prepared and got approved by the Engineer before proceeding with bulk manufacture.

11.3 IRONMONGERY:

11.3.1 This section shall cover all finish hardware, latches, locks and other fittings and fixtures etc., used in wood doors. All finish hardware shall be well made, reasonably smooth, and free sharp edges and corners flaws and other defects and shall be as per relevant Indian Standard Code. Unless otherwise required all finish hardware shall be polished brass.

11.3.2 All hardware shall be of approved make and shall be specifically got approved by the Engineer before ordering. No fittings and fixtures shall be fixed before all major work is over. While fixing correct handling of fixtures shall be ensured.

11.3.3 All finish hardware shall be fixed by skilled carpenters experienced in this work. Work shall be done as per manufacturer's printed instructions and to the satisfaction of the Engineer.

11.3.4 All hardware fixed to respective locations shall be adequately protected from damage and splashes of mortars and paints by covering suitably with Jute clothes/Black PVC sheet till handing over of the work to the Engineer/Owner to his satisfaction. The finished hardware shall be absolutely clean without any foreign materials and fully showing original finish in its best condition.

11.4 VERTICAL BLINDS:

11.4.1 Vertical blinds shall be 100mm wide scotch guard cloth of approved shade & colour Pull cords shall be 1.7 mm dia braided nylon with a core of rayon threads.

11.4.2 The Blinds shall be operable in any direction with a tilt upto 180 degrees and can slide to one side for opening purposes. All metal parts shall be corrosion-resistant and rotating parts shall be self-lubricating. The fixing of the top rail shall be with special GI brackets at approx. 1 mt. Centre to centre.

11.4.3 The installation shall be done by expert workmen approved by the suppliers, strictly as per manufacturer's printed instructions. The installed blinds shall stay flat and in plum in one line and shall operate smoothly to the approval of the Consultant/ ECGC Ltd .

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SECTION XII
TECHNICAL SPECIFICATION FOR ELECTRICAL INSTALLATION
WORKS

GENERAL: All provisions of the "General Conditions" and "Supplementary General Conditions" shall form a part of this section.

WORKS INCLUDED IN THIS SECTION

- a) 230V single phase, 2 wire lighting & power distribution system complete.
- b) An adequate equipment grounding system.
- c) Conduit, pull wire and outlet boxes for Telephone system.

CODE REQUIREMENTS: All work shall be done in accordance with the Institute of Electrical Engineers/I.S.S. code amended up to date/ Indian Electricity Rules.

MATERIALS: All materials to be used in this work be new and bear the Architects/ ECGC Ltd .

RECEPTACLES: All 250V receptacles shall be 2 wire three pin 5 amp flush mounted modular series of flush type of approved make. For power loads, the flush type 6 pin socket shall of 15 amp. Rating and be also of approved make.

SWITCHES: All flush type switches shall be totally enclosed type of 5 amp modular series rating for up to four light outlets and 15amp. Rating for more than four light outlets. Being controlled by one switch. These shall be of approved make for light loads. For power loads, the flush type modular switches shall be of 15 amp rating and be of approved make.

COVER PLATE: These shall be as per the standard modular series and shall be a integral part of the switch or socket and of colour approved by the Architects as required.

LOCATION: The drawings indicate diagrammatically various outlets and equipments. In the event of things in the indicated locations of equipment or fixture being necessary due to developed conditions in the building construction or rearrangement of furnishing, such changes shall be made without any extra cost by the contractor. The route of various conduits shall take into consideration the provisions of other services and shall be decided accordingly at site by the Architects/ ECGC Ltd .

POSITION OF LIGHTINGS & DISTRIBUTION BOARDS & SWITCH GEARS: The recommended position of the lighting points, control switches, distribution boards and switch gears, as shown on the layout drawings, will be adhered to as far as practicable.

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Should there be any discrepancy or incomplete description, ambiguity or omission in the drawings and other documents, whether original or supplementary, forming the contract, the contractor shall immediately on discovering the same, draw attention of

the Architects. Prior to the installation of lighting, and plug points, switches etc. final position shall be ascertained by the contractors with the Architects representative.

PAINTING AND MARKING: All exposed steel work not actually embedded in building construction (viz. Conduits, junction boxes, switch boards etc.) will be painted to match the existing shades of walls as instructed. This work will be done by the contractor without any extra charge. The contractor shall satisfy the Architects/ ECGC Ltd that he has trained labour for making joints of Copper cable/wire etc. Wherever recessed fittings/ fixtures are required to be installed the Contractor shall be responsible for making the recesses in the false ceiling. Only such electrical material of makes and type as approved by Architects/ Project Manager, shall be used.

CONDUITS: These shall be of 16 SWG upto 32mm dia and 14 SWG thick for 38mm and above dia steel, stoveenameled having perfectly circular tubing and capable of being cleaned and tight fitting joints. For flexible conduits 14 SWG thick galvanised MS Flexible conduits will be used.

USE OF BENDS : These shall be of 14 SWG. As far as possible, the conduit system shall be so laid out that it will obviate the use of tees, elbows and sharp bends. No length of conduit shall have more than the equivalent of two quarter bends from inlet to outlet

.CROSS SECTION : The conduits shall be of ample sectional area to facilitate the drawings of cables. In no case shall the total cross

section of cables measured overall be more than half the area of the conduit

.DRAW BOXES : M.S. draw boxes of ample dimensions shall be provided at convenient points on walls to facilitate pulling of long runs of cables. They will be completely concealed with hylam covers flushed with finish surface. These boxes will be as few as possible and located where found suitably by the Architects/ ECGC Ltd . All the G.I boxes used for housing switches, plugs, drawing of wires etc. shall be five sided and of minimum 20 SWG.

SWITCH BOXES :

G.I boxes of required sizes shall be provided to house switches and plug sockets. These shall be attached to conduits by means of check nuts on either side of their walls. These shall be completely concealed leaving edges flush with wall surfaces.

CLEANING OF CONDUIT RUNS ;

The entire conduit system including outlets and boxes shall be thoroughly cleaned after completion of erection and before drawing in cables.

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PROTECTION :To safeguard against filling up with the plaster etc. all the outlet boxes and switch boxes will have to be provided

with temporary covers and plug within the tendered cost which shall be replaced by sheet covers as required.

PAINTING BEFORE ERECTION:The conduit shall be painted at such places where the pipe had been damaged due to vice or wrench grip.

WALL SOCKETS & PLUGS Wall sockets will be of the following type :

a) For light plug point 5 amps. capacity 3 pin type.

b) For power plug point 15 amps. capacity 6 pin type. The quoted rate shall also include earthing the third pin with 16 S.W.G. G.I wire.

WIRES AND CABLES :

a) All wire/cables shall have been manufactured in accordance with the latest I.S. specifications amended upto date. The wiring shall be carried out in the mentioned manner each of which will conform to the given specifications. In concealed/surface conduit system including providing supply and fixing of conduit, bends junction boxes, Brass bushes, check nuts etc.

Looping system will be followed throughout including supply and drawing of required sizes of wire without damaging the same. All flush type accessories will be used. The installation will generally be carried out in conformity with the I.S.I. Code, Indian Electricity rules. For the purpose of determining the load per circuit, the following rating of points shall be assumed : i) Light point 60 watts. ii) Single Fluorescent Lamp 50 watts. iii) Double Fluorescent Lamp 100 watts. iv) Convenience Plug point 60 watts.

v) Power plug points 500 watts .The Light plug points shall be complete with 3 pin 5 amps Plug & socket enclosed in G.I. box with the controlling switch as required and the third pin shall be earthed with 16 SWG Bare copper wire.

Wiring for power plugs shall be as mentioned in the schedule of quantities. Each circuit shall have not more than one power plugs and the plugs shall be earthed with 14 SWG Bare wire.. The point shall be complete with a 3 pin 15 amps. plug socket 15amps switch combined mounted on G.I. Box.

POINT RATE The rate per point shall include all materials, & labour required for completing the point as mentioned in BOQ.

27.4 DRAWINGS

The contractor shall submit one set of Originals & further six copies of layout to Architects/ ECGC Ltd after completion of work. These drawings must give the following information.

1 Runs of conduit, diameter of conduit, Number of wires contained and size of wires

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for point wiring, mains, submains and cables etc.

2 Location of all main switches, junction, outlet Boxes, and point switches.

No completion certificate will be issued until the drawings are submitted. The drawings will be prepared & submitted by the contractor without any extra Charges. Completion Tests The installation with fitting complete shall satisfactorily pass the following test. Before current is switched on.

1 All lamps & appliances having been connected and with All switches "ON" A pressure not less than twice the working pressure (subject to a limit of 500 Volts) shall be applied and the insulation resistance must not be less than 50 Mega OHMS divided by the number of points.

2 With all lamps & appliances removed from the circuit and all the switches "ON" a similar test between the poles shall satisfy the above requirement.

3 To ensure that all single pole switches are on the live side of the apparatus they control.

The Contractor shall notify in writing to the Architects/ ECGC Ltd about the completion of the work, within 45 Days from completion as accepted by Architect/ ECGC Ltd . They sent their representative to remain present at the time of carrying out the tests by the contractor. The

contractor will fix up this date in consultation with the Architect's for each test.

Should the above test not comply with the limits as laid down in I.E. rules, the contractor shall rectify the faults at his own cost until the required results are obtained. The contractor shall be responsible for providing the necessary instruments and subsidiary earths for carrying out the tests. The above tests shall be carried out by the contractor without any extra Charges.

SECTION XIII

LIST OF APPROVED MAKE OF MATERIAL

LIST OF MATERIALS ACCEPTABLE

- 1 **BWP Boards & ply** : Green Ply , Kit , Duro, Archid, Century, Corbett
- 2 **Synthetic Enamel paint/** : Asian, Shalimar, Nerolac, ICCI Oil Bond distemper/primers
- 3 **Prelaminated Boards** : Novapan, Kitlam, Archidlam,

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- 4 **Locks** : Godrej, Harrison, ECIE
- 5 **Brass/powder coated fittings** : Pallidium, Balbehari Hardwares
- 6 **Glass (Plain)** : Modi float, Trivani Float , Saint Gobian
- 7 **Hardware fittings** : Locks, Everite, Bhandari, ABCO
- 8 **Glue** : Fevicol, Vemicol , Kitcol
- 9 **M.S. Screws** : Nettle Fold
- 10 **Prelaminated particle board** : Novapan., Archid, bhutan
- 11 **Laminates** : Royal Touche,sunmica, formica, Greenlam, Archidlam,
kitlam,Signature,
hommica, AIROLAM, OLIVE
- 12 **Rubber** : MM Foam, Modi Foam
- 13 **Polyurethane foam** : ISI Marked
- 14 **Carpet** : Transasia, Marwar. Maharaja
- 15 **Vertical Blinds** : Vista, Trac, MAC.

SECTION XIV

LIST OF APPROVED MAKE OF MATERIAL FOR ELECTRICAL WORKS

1.MCB and MCB DB's

1. MDS, L&T , Havells,
STANDARD with hinged door

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	recess type
	1.Indo copp
	2.Siemens
2. Copper conductor PVC insulated wires	1.Finolex
	2. Havells
	3.RR Cables
3. M.S. conduit (ISI marked)	1.B.E.C.
	2. Steel Kraft
	3.AKG
4. Telephone wires (0.5mm)	1.Delton
	2.National
5. 5/15 amps. switch, socket ISI modular	1. Anchor Crabtree, ROMA, MDS legrand, MK, series. Toyoma
	2. ROMA., Toyoma
6. Telephone Socket (3 pin)	1.ROMA, CRABTREE , MDS legrand, MK, toyoma
7. LAN WIRES/ ACESSORIES	D-LINK MAKE

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