

KRISHAK BHARATI COOPERATIVE LIMITED**HEAD OFFICE, NOIDA****Tender Details**

Enquiry No.	1659/2024-2025/MKTG/MAINT
Name of work	Repair & Maintenance Work at KRIBHCO SPU, 7TH , Milestone, Opposite-Kay Bee Safal India Ltd., Hisar-125001
Stages of Tender	Single Stage – 3 Envelope
Issue date	23/09/2025
Last date & time for submission of ITT	14/10/2025 & 12:00 Hrs
Last date & time for Submission of queries by Bidder	30/09/2025 & 12:00 Hrs
Site Visit date and time	03/10/2025 & 11:30 Hrs
Technical bid opening date and time	14/10/2025 & 11:30 Hrs
Price bid opening date and time	To Be informed
Earnest money deposit (EMD)	Rs. 90,000/- (Ninety Thousand Rupees only)
Period of completion	3 Months
Tender Issuing Authority	Sh. C. S. Azad ED (Technical) A-10, Sector-1, Kribhco Bhawan, Noida-201301
Tender Submission Address	State Marketing Manager, SCO-52-52, 2nd Floor, Sector-34-A, Chandigarh PIN-160002

Invitation to Tender

Date : -23/09/2025

Ref :- 1659/2024-2025/MKTG/MAINT

Subject: Invitation To Tender (ITT) for Repair & Maintenance Work at Kribhco SPU Hisar premises

Dear Sir/ Madam,

With reference to above subject, KRIBHCO invites tender as per terms and conditions mentioned herein. Please submit your competitive bid on or before due date and time mentioned in the tender document. Following attachments/annexures are integral parts of ITT.

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“हम हिन्दी में लिखे पत्रों का स्वागत करते हैं”

ए-10, सेक्टर-1, नोएडा-201301
जिला : गीतम बुद्ध नगर (उ० प्र०)



A-10, Sector-1, NOIDA-201301
Distt. Gautam Budh Nagar (U.P.)

फैक्स / Fax : 0120-2537113, 2534861, दूरलेख/Grams : KRIBHCO-NOIDA

दूरभाष / Phone : 0120-2534613 / 14 / 22 / 29 / 31 / 32, वायस मेल/Voice Mail : 0120-2549112 / 13 / 14

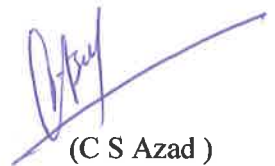
(पंजीकृत कार्यालय : ए-60, कैलाश कॉलोनी, नई दिल्ली-110 048)

Registered Office : A-60, Kailash Colony, New Delhi-110 048

This ITT is being forwarded to you through email. You are requested to return one hard copy of duly filled, stamped and signed on all pages. All tender drawings are also to be signed, stamped and to be submitted with technical bids. Tenderers are requested to go through the documents thoroughly and ensure submission of tenders in time. It may be noted that tender documents are non transferable. Please read Attachment-III "Instruction to Bidders" for detailed guidelines.

Thanking you,

for & on behalf of
Krishak Bharati Cooperative Limited

A handwritten signature in blue ink, appearing to be 'C S Azad', with a long horizontal stroke extending to the right.

(C S Azad)
ED (Technical)

PART-A: INSTRUCTIONS AND CONDITIONS

ATTACHMENT - I

TENDER FORM

Dated:

From :

To :

Krishak Bharti Cooperative Ltd., Noida

Sub : Submission of tender for Repair & Maintenance Work at Kribhco SPU Hisar premises.

Dear sir,

We hereby tender for the execution of the works as indicated in the tender document for _____, We submit the tender duly signed.

We accept in full the terms and conditions laid down in the Tender Documents broadly enumerated but not limited to following :

- Submission of Earnest Money of Rs. _____ in the form of Demand Draft or Bank Guarantee as per Annexure from a Scheduled Bank.
- Providing the Owner with a financial guarantee for due and faithful performance of the contract for a sum equal to **10% (ten percent)** of the contract value. Such guarantee shall be in the form of Bank Guarantee from a Scheduled Bank, on the format provided by KRIBHCO. The Bank Guarantee shall be furnished within 21 days of the effective date of contract and shall be valid until expiry of the contractual and extended period, if any.
- Should this tender be accepted, we hereby agree to abide by & fulfill all terms and conditions referred to above and in default thereof, to forfeit and pay to the owner or its successors or its authorised nominees such sums of money as are stipulated in conditions contained in Notice Inviting Tender and other tender documents.
- If, I/We fail to commence the work specified in Tender Document and/or if I/we fail to deposit the financial guarantee as specified above, I/We agree that the said Owner or its successors without prejudice to any other right or remedies, shall have the right to forfeit the said Earnest Money in full.
- The Owner shall also be at liberty to cancel the notice of acceptance of tender if I/We fail to deposit the financial guarantee aforesaid or to execute an agreement or to start work as stipulated in the Tender Documents.

I/We have annexed to this tender the following documents :

- Authorization letter of _____ as proof of authority of the person who has signed the Tender or copy of Power of Attorney of _____ duly attested by a Gazetted Officer in proof of authority of the person who has signed the tender.
- Information regarding experience of work of comparable nature.
- Set of Tender Documents as issued duly signed.
- Earnest Money Deposit in Form of Demand Draft for Rs. _____ drawn on bank payable at _____ or in the form of Bank Guarantee valid for six months with claim period of six months over and above validity of Bank Guarantee.
- Signed and stamped copy of drawings as in the invitation to bid.
- Any other document as required in the invitation to bid.

I/ We have carefully studied the Drawings and BOQ attached with the NIT/ shared in online drive for the purpose of preparing our bid.

I/We undertake that the statement made herein and the information given in the Annexure referred to above are true in all respects and that in the event of any such statement or information being found to be incorrect in any particular, the same may be construed to be a misrepresentation and in such eventuality Krishak Bharti Cooperative Limited will have the right to cancel the contract.

I/We further undertake as and when called upon by Krishak Bharati Cooperative Limited to produce for its inspection, original (s) of the document(s) of which copies have been annexed hereto.

Date the _____ day of _____ 20__.

Signature(s) of Tenderer/s with the seal of the firm.

Witness

Name in Block Letters :

Address :

Designation :

ATTACHMENT – II

MINIMUM ELIGIBILITY CRITERIA

The bidders shall submit the documents as prescribed hereunder and ensure that they meet the prequalification criteria before submission of bids.

Sl. No.	Criteria	Requirement & Documents to be Submitted
1	EMD	Rs. 90,000/- (in form of DD from Scheduled Banks/ EFT)
2	PAN & GST	Must have valid PAN and GST registration; <i>Copies of PAN and GST Certificates to be submitted</i>
3	Legal Entity Status	Based on type of entity: <ul style="list-style-type: none"> • Company – Certificate of Incorporation • Partnership – Partnership Deed • Proprietorship – General Power of Attorney (GPA); <i>Copy of relevant document to be submitted</i>
4	MSME Status	Yes/ No. <i>If yes, Please submit MSME certificate</i>
5	Solvency Certificate	Minimum Rs. 10 Lakhs; <i>Solvency certificate issued from a scheduled bank to be submitted</i>
6	Tender Document	Must be signed and stamped; <i>Signed and stamped tender copy to be submitted</i>
7	Work Experience	Executed similar works in last 5 years, Atleast: <ul style="list-style-type: none"> • One order \geq Rs. 70 Lakh OR • Two orders each \geq Rs. 55 Lakh OR • Three orders each \geq Rs. 35 Lakh OR Definition of Similar Work: Construction and Repair Maintenance work of Godowns/ Large Buildings/ Plants. <i>Work Orders with Completion Certificates to be submitted (Scope of work clearly highlighted to examine the eligibility criteria)</i>
8	Average Annual Turnover	Average Rs. 50 lakh during the last 3 years; <i>Audited Financial Statements or Turnover Certificate issued by CA (Last 3 Years) to be submitted</i>
9	Profit Status	Should be profit-making in the last 3 years; <i>Financial Statements & ITR (Last 3 Years) to be submitted</i>
10	EPF/ESI Registration	Must be registered with EPF and ESI; <i>Copy of Registration Certificates to be submitted</i>

Tenders without meeting one or more criteria as listed above are liable to be rejected.

Notes:

KRIBHCO reserves the right to verify the authenticity of submitted documents, reject any or all applications, and cancel the tender process without assigning any reason.

INSTRUCTION TO BIDDERS

1. Procedure for submission of Tender:

Single stage – 3 Envelope procedure shall be adopted for submission of proposal by the Bidders. The sealed envelopes shall be submitted as follows: -

Envelope-I:

To be super scribed “**Earnest Money Deposit**” and to contain Earnest Money of Rs. 90,000/- (Rupees Ninety Thousand Rupees only) which shall be interest free deposit in the form of Crossed Bank Draft drawn on any Indian Scheduled bank in favor of KRIBHCO or EFT, payable at DELHI/NOIDA. EMD in any other form will not be accepted. KRIBHCO bank details for NEFT/RTGS are as below:

Name of Bank - Indian Overseas Bank

Type of Account – Current Account

Account Number – 172502000000001

IFSC Code - IOBA0001725

Envelope-II:

To be super scribed “**Technical and Unpriced Commercial Tender**” and to contain KRIBHCO’s ITT duly signed and deviation if any, which may be at variance with the conditions given in KRIBHCO’s Invitation to Tender. The Bidder shall enclose one set of KRIBHCO’s complete tender documents and tender drawings, duly signed and stamped on each page, in this envelope. Bidder shall also submit the copies of all the qualifying credentials in this envelope.

Envelope-III:

To be super scribed “**Priced Commercial Tender**” and to contain schedule of rates/BOQs with quoted rates neatly written and amounts (both in figures & in words) duly filled in, signed and stamped.

Opening procedure for tender:

1. Envelope no -I will be opened first and another envelop-II and III will be opened only if bidder has submitted valid EMD.
2. Envelope no-II will be opened after submission of valid EMD by the bidder. The envelope-III of bidders whose tenders are found to be responsive will be opened at a later date which will be intimated to the Bidders. Envelope III should not contain any conditions whatsoever except prices.

All envelopes, in addition to above superscription, should also be super scribed as follows:

“

TENDER NOT TO BE OPENED BEFORE DUE DATE AND TIME

TENDER NO:

Dated:

Due Date:

Time:

“

All envelopes shall be addressed as below:

To,
Sh. C S Azad
Executive Director (Technical)
A-10, Sector-1, Kribhco Bhawan,
Noida-201301

2. Acceptance/Rejection of Tender:

KRIBHCO/Consultant reserves the right to accept or reject any tender in whole or part and/or accept other than the lowest quotation without assigning any reason. The whole work may be split up between two or more contractors if considered expedient by the Owner/Consultant on their sole and absolute discretion. The tenderer shall have no claim in this regard whatsoever.

3. Transmission of Correspondence other than tender:

All correspondence in connection with the ITT shall be submitted to the Sh. C S Azad, ED (Technical) at the addressed mentioned herein in hard copy with an e-mail to slmeena@kribhco.net

4. Evaluation of Bids:

The Bidder will be awarded the contract on a technically and commercially accepted bid on the overall lowest evaluated price. Each item listed in the BOQ shall be multiplied by the rate offered by the Bidder against each individual item, and the sum of all items shall be considered for the evaluation of the bid. **The overall bidder has to be lowest bidder for civil and structural work also.**

The payment terms should be as per the ITT. If any bidder quotes different payment terms than those in the ITT, then their bid may not be accepted or will be loaded at a rate of 12% per annum for deviation in payment terms. However, no benefit whatsoever will be given to bidders who quote better payment terms.

The contract period is 18 months for execution from the effective date of the contract. If bidders quote a longer contract period, then their quoted rates will be loaded at 1% of the quoted value per week or part thereof for the extra time required by them, for evaluation purposes.

Bids with a quoted contract period of more than 21 months shall be rejected. However, no weightage whatsoever will be given to bidders who quote a lesser period.

KRIBHCO/Consultant may ask, if required, the bidder for a breakup, justification, and analysis of the rate of any item quoted by them.

5. Bidder to quote for all items:

The Bidder shall quote its rates for all items listed in the BOQ/SOR. Bids with an incomplete BOQ/SOR may be rejected without assigning any reason. In case a bidder does not quote for some items but agrees to execute the work, including the non-quoted items, such bids shall be evaluated using the highest rates offered by other bidders for those items. However, such a selected bidder must confirm to execute all the work in totality, and the lowest rate quoted by other bidders for those items will be considered for the award of work.

6. Bidder to sign all pages:

All pages of the tender documents including corrections if any, shall be signed and stamped by the Bidder.

7. Erasures and Alterations:

Bids containing erasures or alterations in the tender documents may be rejected. All rates shall be indicated in both words and figures. In case of any difference between the rates quoted in words and figures, the rate given in words shall prevail.

8. Incomplete and late tender:

Unsolicited, incomplete, or late tenders, or tenders received without the required Earnest Money, are liable for rejection without any further reference.

9. Execution of Contract:

The successful Bidder shall be required to execute the contract agreement with the Owner within 21 days from the date of issue of the Letter of Intent to the selected bidder.

10. Firm Price:

It is deemed that the rates quoted shall be firm and shall include all costs, allowances, taxes, levies, transportation, wastage, WCT, etc. However, GST (Goods & Services Tax) shall be paid as per prevailing government policies and guidelines.

11. Validity of Quotation:

The rates quoted by the Bidder shall be valid for a period of 120 days from the date of the price bid opening for the purpose of the placement of the LOI/Work Order.

12. Return of Earnest Money:

KRIBHCO shall return the Earnest Money, where applicable, to all unsuccessful bidders after the award of the job. However, the Earnest Money of the successful bidder shall be returned only after the submission of a Financial Guarantee for performance.

13. No cost payable for preparing tender:

The Bidder shall not be entitled to claim any costs, charges, or expenses incurred in connection with the preparation, submission, or subsequent clarification of the tender, even if KRIBHCO decides to withdraw the invitation to tender or rejects the tender on any account.

14. Jurisdiction:

Notwithstanding any other court or courts having jurisdiction to decide the questions forming subject matter of a suit, any and all actions and proceedings arising out of or relating to this contract (including any arbitration in terms thereof) shall be only in the court of competent civil jurisdiction in this behalf at DELHI.

15. Assignment/Sub-letting:

The contractor shall not assign or sub-let any part of the contract without the written consent of the Owner.

16. Taxes:

- a) Prices quoted shall be inclusive of all taxes including Turnover Tax except GST. GST shall be extra at the applicable rates as per the Tax laws in force and Contractor shall be responsible for deposit of the same with tax/statutory authority.
- b) Income Tax: - Income Tax shall be deducted at source at applicable rates from all the payments released to the Contractor.

- c) Turnover Tax/ GST/Other Taxes: The quoted price shall be inclusive of Turnover Tax/ Service Tax Other Taxes (except GST) as per the tax laws in force on the date of submission of quotation and contractor shall be responsible for compliance of all the Tax, Laws and deposit of such taxes with statutory tax authorities. Further, KRIBHCO shall not bear any increase in the Tax rates after the date of Price Bid opening and the rate quoted by the Contractor in the Price Bid. Further, if it is found at a later date that any of the above taxes are not livable, then the same shall be deducted from the payments to be made to the Contractors. Contractor shall also indicate in the Price Bid the nature, amount and rate of tax considered in the price quoted by them. It is again made clear that the quoted prices shall be inclusive of all taxes, duties, cess etc.
- d) Bidder is required to provide applicable GST rates separately in the space provided for the same.
- e) The Bidder accepts full and exclusive liability for the payment of any and all applicable taxes (CGST, SGST, IGST, UTGST) levies and statutory payments payable under all or any of the pre-vailing Central/ State statutes.
- f) The Bidder shall comply with all the provisions of GST Act/ Rules / requirements like providing of tax invoices, payment of taxes to the authorities within the due dates, filing of returns within the due dates etc. to enable KRIBHCO to take Tax Credit.
- g) In case, KRIBHCO is not able to take Input Tax Credit due to any non-compliance/ default/ negligence of the Bidder, the same shall be recovered from the pending tax invoices/ dues (including security deposits, Bank Guarantees etc.) Bidder shall indemnify KRIBHCO for any loss actual or implied, accrued to KRIBHCO on account of Bidder failing to discharge their statutory liabilities like paying taxes on time, filing appropriate returns within the prescribed time etc.
- h) Every tax invoice of the Bidder shall contain invoice number, invoice date, GSTIN number & HSN/ SAC code for the contract being carried out along with tax rate.
- i) The Bidder shall mention their registration status on the bill/ invoice. In case there is change in the registration status of the Bidder during the execution of contract the same should be advised immediately. Due to change in the registration status, KRIBHCO will not be liable for any additional tax payments.
- j) GST (CGST, SGST, IGST, UTGST) as applicable shall be reimbursed.
- k) KRIBHCO will be liable to pay only GST as indicated by the Bidder at the time of submission of Price Bid as agreed subsequently (prior to opening of price bids).
- l) Any tax, levies or any other form of statutory levies or cost as on closing date of the tender will be treated as included in price Bid. Taxes, duties and levies not indicated by the Bidder in the unpriced bid, but payable shall, be to Bidder's account.
- m) New taxes/ change in tax rates/ levies imposed by the Indian/ State Governments through Gazette notification after the date of submission of last Price Bid but prior to contractual completion date, KRIBHCO shall reimburse/ adjust the increase/ decrease in taxes on satisfactory supporting documents being provided by the Bidder. In case the contract is not completed within the scheduled period then the increase in the statutory levies, if any, shall be on Bidder's account.

17.Services of notices of contract

All notices, communications, and references shall be deemed to have been given to the contractor if delivered to the contractor, left at, or posted to the address given in Clause No. 9 of Attachment VII (Special Conditions) by the contractor or their authorized representative. In the case of postal delivery, the notice shall be considered received on the day it would normally reach the given address in the regular course of post, or on the day it was delivered or left at the address. Singular and plural terms are interchangeable in the text of any clause.

18. Inconvenience to others:

The contractor shall plan their work in such a way as not to cause any inconvenience to the public, the owner and/or other contractors at the site. Contractor shall be responsible for the manner and method of execution of work. The work shall be subject to the approval of the Owner/Consultant from time to time to determine whether the work is being executed in accordance with the provision of the contract.

19. Dewatering:

Contractor shall make their own arrangement, at their cost, for dewatering of pits and trenches to keep them free of rain and/or seepage water wherever required.

20. Working Hours

The standard working hours will be from 8 AM to 8 PM every day. However, in the interest of the work, KRIBHCO may permit the contractor to extend working hours until 10 PM subject to local labour laws applicable at site.

21. General

- a) In case any clarification is required, the Bidder shall approach the Owner /Consultant in writing. The Owner/Consultant shall provide such clarifications in writing only. All clarifications provided shall be binding on the Bidder.
- b) No Bidder can withdraw their tender or revoke the same within the validity period. If a Bidder withdraws or revokes their tender or revises the tender rates for any item within the validity period, their earnest money deposit will be forfeited without prejudice to any other right/claim that owner/consultant may have against the Bidder. The EMD will be forfeited if the bidder having been notified of the acceptance of bid by the owner during the period of bid validity and bidder fail or refuse to execute the contract or fail/refuses to furnish PBG.
- c) In case of any amendment to this ITT, in order to afford prospective bidder reasonable time to take the amendment into account in preparing their bids, the owner/consultant may, at their discretion, extend the deadline for the submission of bids.
- d) The amendment will be notified in writing or by fax or E-mail to all prospective Bidder who have received the tender documents and will be binding on them.
- e) Advance payments, if agreed, shall be made in the form of online transfer against a bank guarantee in a proforma enclosed with the tender documents.
- f) Effective date of the contract shall be the date of letter of intent of award of work / handing over of site whichever is later.
- g) Please note the proposed site is an existing working office, hence Bidders are advised to visit the site before quoting the rate to ascertain the working condition & site constraints etc.
- h) Wherever it is mentioned “shall be done by contractor or supplied by the contractor” it shall be deemed to mean shall be done or supplied by contractor at their cost.
- i) At any time prior to the deadline for submission of bids, the owner for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, may modify the tender documents by amendment thereto.
- j) The owner may, at their discretion, extend the deadline for the submission of bids by amending the tender documents in accordance with the Articles above, in which case all rights and obligations of the owner and bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

GENERAL CONDITIONS OF CONTRACT

ARTICLE-1: DEFINITIONS

In this contract the following words shall have the meaning herein assigned to them respectively.

- a) "Tenderer" or "Bidders" means any person, firm or company invited to submit their tenders or bids; including their authorised representative for the work.
- b) "The Work" means all duties, responsibilities and obligations to be discharged by the Contractor pursuant to the contract.
- c) "The contractor's Equipment" means all machinery, apparatus, materials and equipment to be provided by the Contractor pursuant to the Contract for and in connection with the work but not forming or intending to form a permanent part of Plant/Office.
- d) "The Site" means the **KRIBHCO Seed Processing Unit, 7Th Km Stone, Bagla Road, Hisar, Haryana, India, 125001** where work has to be done by the Contractor together with area surrounding the Site as the Contractor may with the consent of the Owner use in connection with the work otherwise than merely for the purpose of access to the Site.
- e) "Date of Completion" means the date specified in the body of the contract hereto or such later date as may be agreed to in writing from time to time by the Owner/Consultant.
- f) "Month" shall mean English Calendar month.
- g) "Contractor" shall mean any person, firm or company awarded the work tendered.
- h) "Purchaser/Owner/KRIBHCO" shall mean KRISHAK BHARATI COOPERATIVE LIMITED.
- i) "Consultant" means any agency or agencies with whom the Owner has entered into an Agreement for rendering the consultancy services.
- j) "ITT/tender/bid/NIT/tender document" shall means the same.

ARTICLE-2: CONTRACTOR'S SERVICES

- a) The Contractor shall supply material under scope and provide, execute, complete and maintain the work in Accordance with the Contract. The contractor shall also perform the services described in various sections of Invitation to Tender.
- b) The contractor undertakes to cooperate with the Consultant/Owner and other contractors appointed by the Owner for the Plant and agrees to exchange technical information as may be reasonably asked for to obtain most efficient and economical Plant for owner.
- c) The contractor shall be responsible for ensuring that the positions, levels and dimensions of the work are correct according to the Contract notwithstanding that they may have been assisted by the Consultant in setting out the said positions, levels and dimensions. Any discrepancies shall be promptly intimated to the Owner/Consultant for their final decision.
- d) The work to be done under the contract shall be executed with all due diligence and in the manner specified in the Contract and to the satisfaction of the Owner/Consultant. The contractor hereby undertakes that work shall be ready for tests on completion not later than the date of completion.
- e) The contractor shall carryout all such tests as are specified in the Contract and/or required in accordance with good engineering practices or directed by Owner/Consultant for ensuring the quality and performance of the equipment and materials supplied and work done under the contract at their own cost.
- f) Contractor shall arrange for all handling, safe storage and security of all the equipment/ material issued to them for erection if any.

- g) Contractor shall arrange all tools, tackles, cranes and other material handling equipment's, welding equipment and cables, welding rods, scaffoldings, consumable stores, safety equipment & appliances and all other equipment/accessories required for execution of work including erection and testing. These shall not be removed from the site without the written permission of the Owner.
- h) Contractor shall bear all postage/courier, telephone/fax, telegraph and other communications etc. expenditure during their work at the site.
- i) Contractor shall provide necessary supervisory staff and inspectors, erection engineers, skilled and unskilled labour, clerical staff, watch and ward staff, store keepers, drivers, etc. required in connection with the execution of the contract.
- j) Contractor shall provide all amenities, including but not limited to, accommodation/ conveyance to their staff and labour employed by them for the work at the site.

ARTICLE-3: CONTRACT PRICE

- a) The Owner shall pay to the Contractor sum not exceeding to what is set out in the Letter of Intent /Work Order, reduced or increased by such sums (if any) as under the Contract are to be taken into account in ascertaining the Contract Price. The Contractor shall take written permission from KRIBHCO for carrying out works beyond stipulated contract value as and when such situation arises.
- b) The contractor shall credit the Owner with the sums which may become allowable or due under the Contract at the times and in the manner hereinafter specified.
- c) *The prices shall be fixed for the duration of the contract and shall not be subject to escalation of any description including those on account of delays due to Force Majeure.*

ARTICLE-4: OWNER'S REPRESENTATIVE/CONSULTANT

- a) All instructions and orders to the Contractor shall, except as herein otherwise provided, be given by the Owner through their nominated representative(s).
- b) All the work shall be carried out under the direction of and to the satisfaction of the Owner/Consultant.
- c) The contractor shall proceed with the work in accordance with decisions and orders given by Owner/Consultant in accordance with the contract provided always that:
 - a. If the contractor shall without undue delay after being given any decision, instruction or order otherwise than in writing, require it to be confirmed in writing, such decision, instruction or order shall not be effective until written confirmation thereof has been received by the contractor, and
 - b. If the contractor shall by written notice to the Owner/Consultant within fourteen days after receiving any decision/instruction from the Owner/Consultant in writing or writing confirmation thereof intimates that the disputes or questions the decision, instruction, or order given their reasons for so doing, either party shall be at liberty to refer the matter to arbitration pursuant to Article-34 hereof, but such an intimation shall not relieve the contractor of their obligations to proceed with the work in accordance with the decision, instruction, or order in respect of which the intimation has been given.

ARTICLE-5: CONTRACTOR TO INFORM THEMSELVES FULLY

The contractor shall be deemed to have carefully examined the specifications, schedules and drawings and also to have satisfied himself as to the nature and character of the work to be executed and, the Site

conditions and other relevant matter in detail, before entering in to the contract. No claim whatsoever, if subsequently made in this regard, shall be entertained by the OWNER/ CONSULTANT.

ARTICLE-6: FINANCIAL GUARANTEE FOR SECURITY AND PERFORMANCE

The Contractor shall provide the Owner with the financial guarantee for the due and faithful performance of the contract for a sum equal to **10% (ten percent)** of the contract value or the sum as defined in the body of the contract. Such guarantee shall be in the form of a Bank Guarantee from a Scheduled Bank, on the format attached. The Bank Guarantee shall be furnished within 30 days of placement of letter of intent and shall be valid until expiry of the maintenance period referred to in Article-31. Upon submission of Performance Guarantee, EMD of the contractor shall be refunded. In case EMD has been submitted in the form of Demand Draft, the same can be adjusted against performance guarantee, the value of which shall stand reduced by EMD amount. For increase up to 20% in contract value, performance guarantee originally submitted shall remain valid. For increase beyond 20% additional guarantee to cover total increase from original contract value shall be submitted by the contractor. *The validity of performance guarantee shall be suitably extended in accordance with final date of completion of work plus maintenance period plus 6 months.*

ARTICLE-7: DRAWING AND DESIGNS

- a) *The drawings and detailed technical specification shall be supplied in stages, after the award of work, keeping in view the site requirements.*
- b) All drawings, designs, specifications and other documents furnished by the Owner/Consultant to the contractor, including all features whether patented or patentable or not, or whether separately or collectively shown, are the exclusive property of the Owner and shall be confidential and shall not be lent or reproduced in whole or in part nor used for any purposes other than in execution of the Contract without the previous written consent of the Owner/Consultant. Such drawings, designs and other documents are loaned by the Owner/Consultant to the Contractor and subject to return on demand.
- c) Where with the written permission of the Owner/Consultant the Contractor reproduces any drawing or design in whole or part, the contractor shall stamp it as follows:
This drawing/design, including all patented and patentable features separately or collectively shown is reproduced from a drawing/design which has been furnished by the (Owner/Consultant) and is not to be reproduced or used for any purpose other than those specifically permitted in writing by the (Owner/Consultant).
- d) Any reproduction of any such drawings, designs, specification or any other document shall be equally subject to return on demand or on completion of work as the clause (b) above, whichever is earlier.

ARTICLE-8: PATENTS AND OTHER RIGHTS

- a) The contractor shall fully indemnify the Owner against any action, claim or demand, costs or expenses, arising from or incurred by reason or any infringement or alleged infringement of any letters, patent, registered design, trade mark of name copy right or other protected right in respect of the work or method of using, fixing, or working the Equipment's authorised or recommended by the Contractor.
- b) The Owner warrant on their part that any design or instructions furnished or given by them for performance of work hereunder to the contractor shall not be such as will cause the contractor to

infringe any letters patent, registered design, trademarks or copy right in the performance of the contract.

- c) *In the event of any action being brought or any claim or demand being made against OWNER on account of any such matter as aforesaid, the Contractor shall immediately be notified and they shall at their own expenses fully cooperate with Owner and shall do all that the Owner may reasonably require in defence in such action or to resist such claim or demand.*

ARTICLE-9: ROYALTIES

All payments and royalties' payable in respect of any letters, patent and other rights whether payable in one lump-sum or by instalments or otherwise are included in the Contract Price. OWNER/CONSULTANT shall not be liable to pay such dues or sums.

ARTICLE-10: ASSIGNMENT AND SUBCONTRACTING

- a) The Contractor shall not without the consent in writing of the Owner/Consultant assign or transfer the contract or benefits or obligations or any part thereof to or enter into any sub-contract with any other person. Any such consent shall not relieve the Contractor from their obligations under the Contract.
- b) If any sub-contractor engaged upon the work *with due permission from Owner/Consultant* at the site executes any work which in the opinion of the Owner/*Consultant* is not of the requisite standard (the opinion of the Owner/*Consultant* being final in this regard), the Owner/*Consultant* may by written notice to the Contractor require the Contractor to terminate such sub-contract, and contractor shall upon the receipt of such instructions terminate such sub-contract at the risks and cost of the Contractor, and shall keep Owner/*Consultant* indemnified against all the consequences.

ARTICLE-11: GUARANTEE

- a) All Equipment supplied and work done by the Contractor pursuant to the Contract shall be guaranteed by the Contractor to be in accordance with the specifications contained in the contract, new and of the best quality and workmanship and to be of expert design conforming to generally accepted Indian/International standard to be of sufficient size and capacity and of proper materials so as to fulfil in all respects requirements specified in regard thereto.
- b) If at any time during the execution of the work or during the maintenance period specified in Article-31 hereof, the Owner/Consultant shall decide that any equipment supplied or work done by the contractor fails in any respect to conform to the guarantees given by the contractor in paragraph (a) hereof, the Owner/Consultant may as soon as reasonably practicable, give the contractor a notice in writing of the respects in which the equipment supplied or the work fails to conform to the such guarantee and the contractor shall thereupon, at their own expense, replace any equipment and carry out any further work that may be necessary to ensure that the equipment supplied and the work done conforms to such guarantee.
- c) If the contractor fails within a reasonable time not exceeding 15 days from the date of notice in this behalf from the Owner/Consultant to take such steps as may be necessary to fulfil their obligations under paragraph (b) hereof then the Owner/Consultant may, at the expense of the contractor shall conform to such guarantee.
- d) If any replacement of equipment or the work done by the contractor pursuant to this article shall be of such a nature as to effect the efficiency or performance of the whole or any portion thereof, Owner/Consultant may give notice to the contractor in writing requiring that a test or tests shall be

carried out at the expense of the contractor and in accordance with the *technical standards prescribed by Bureau of Indian Standards*.

ARTICLE-12: VARIATIONS AND OMISSIONS

- a) The contractor shall not; alter any of the work except as directed in writing by the Owner/Consultant but the Owner/Consultant shall have the full power from time to time during the execution of the contract by notice in writing to direct the contractor to alter, amend, omit, add to, or otherwise carry out any of the work, and the contractor shall carry out such variations, and be bound by the contract so far as applicable as though the said variations were stated in the contract. In any case, in which, the contractor has received any such direction from the Owner/Consultant which either then, or in the opinion of the contractor, will later involve an increase or decrease in the contract price, the contractor shall within seven (7) days of such direction, advise the Owner/Consultant in writing to that effect. The Owner/Consultant shall thereupon approve in writing such variations which are to be given effect together with the amount of increase or decrease in the contract price on that account. The contractor shall then give effect to such variations. The difference in cost, if any, occasioned by any such variations, shall be added to or deducted from the contract price and paid in the same way as the contract price.
- b) If in the opinion of the contractor any such variation is likely to prevent or prejudice them from fulfilling any of obligations under the contract, they shall notify the Owner/Consultant thereof, in writing and the Owner in consultation with consultant shall decide forth with whether or not such variations; shall be carried out. If the Owner/Consultant amends their instructions in writing, the said obligations shall be modified to such an extent as may be agreed in writing between the owner and the contractor, provided however, that the contractor may not call upon the owner to agree to any such variations as would in any way, have the effect of modifying the obligations of the contractor under the provisions of Article-8 and 11 hereof.
- c) If any variation in the scope of work necessitates any extension in the time for completion, the provisions of Article-25 here of shall apply.

ARTICLE-13: EXECUTION OF WORK IN INCLEMENT WEATHER

The contractor shall, during inclement weather, carryout the work in accordance with the contract and the contractor shall not be entitled to any additional payment over and above the contract price by reason of them being unable to carry out the work owing to inclement weather.

ARTICLE-14: CONTRACTOR'S DEFAULT

If the contractor shall fail or neglect to execute the work with all diligence and expedition, or shall refuse or neglect to comply with any reasonable orders given to them in writing by the Owner /Consultant in connection with the work, or shall contravene the provisions of the contract, the Owner/Consultant may give notice in writing to the contractor specifying the time within which to make good such failures, neglect or contravention. Should the Contractor fail to comply with the notice within the time specified in the notice, then the Owner either on its own or in consultation with the consultant shall be at liberty forthwith to make good such failure, neglect or contravention and to execute such part of the work as the contractor may have failed or neglected to do, all without prejudice to other rights the owner may have under contract, to take the work wholly or in part out to the contractor's hands and enter into contract with any other person, firm or company to complete the work or any part thereof, and in such events the owner shall have free use of all contractor's hands and enter into contract with any other person, firm or company to complete the work or any part thereof, and in such events the

owner shall have free use of all contractor's equipment and other things that may be at any time on the site in connection with the work, without being responsible to the contractor, for fair wear and tear thereof, and to the exclusion of any right of the contractor over the same, and the owner shall be entitled to retain any balance amount which may be otherwise due under the contract to the contractor or such part thereof as may be necessary to the payment of the cost of executing the said part of the work or of completing the work as the case may be and of meeting claims of third parties against the owner and arising from or in consequence of the contractor's failure, neglect, refusal or contravention as aforesaid, if the cost of completing the work or executing a part thereof or of meeting claims of third parties as aforesaid shall exceed the balance due to the contractor under this contract the owner shall have right to recover the balance from amounts payable to the contractor under any other contract or from their performance guarantee. The contractor shall not resort to unilateral stoppage of work due to any reason whatsoever. If they does so, it shall be treated as default and breach of contract.

ARTICLE-15: BANKRUPTCY AND WINDING UP

If the contractor shall become bankrupt or insolvent or have a liquidator/receiver appointed over their company, or compound with their creditors, or being a corporation, commence to be wound up, not being a member's voluntary winding up for the purpose of reconstruction, or carry on its business under a receiver for the benefit of its creditors or any of them, the owner shall be at liberty -

- a) to terminate the contract forthwith by notice in writing to the contractor or to The Receiver or Liquidator or any person in whom the contract may become vested, and to act in the manner provided in Article-14 hereof as referred to in such Article and the work had been wholly taken out of contractor's hands or
- b) to give such receiver, liquidator, or other person the option of carrying out the contract subject to their providing guarantee for the due and faithful performance of the contract to the extent of work desired by the owner and up to the amount to be agreed within; the overall contract value

ARTICLE-16: INSPECTION AND TESTING

- a) The representatives of the owner and the consultant shall be entitled at all reasonable time to inspect the work or any part thereof. The contractor shall provide all necessary assistance to the owner/Consultant and shall make available all such tools to enable the owner/consultant may require to carry out such tests/inspection. The contractor shall uncover any part of the work or make openings for inspection as the owner/consultant direct and shall reinstate and make good such part to the reasonable satisfaction of the Owner/Consultant. The contractor shall ensure that their sub-contractors and vendors also provide such facilities for inspection and tests by the Owner/Consultants *that have been mentioned in this clause.*
- b) On receiving notice from the contractor that the work is ready for inspection, the Owner/Consultant shall without unreasonable delay, attend for the; purpose of inspecting the said work. The Owner/Consultant reserves the right to waive participation in any test requirements, *which however shall not absolve the contractor of their liabilities herein.* When the tests have been completed satisfactorily, the contractor shall furnish the test certificates for owner/consultant's signatures within two days of completion of such tests.
- c) The owner/consultant shall have the right, according to their judgment and specifications to forbid the use and the dispatch of all such materials which, during tests and inspections, fail to comply with requirements.
- d) The contractor shall not dispatch any equipment without the completion of final inspection by the owner/consultant. The waiver from participation in the final inspection shall be made by the owner only.

- e) Whenever it is necessary to cover up any work in respect of which previous inspection is desired and the contractor has been notified accordingly by the owner/consultant in writing, the contractor shall give notice in writing to the owner/consultant before the work is covered up. No such work shall be covered up or built upon unless it has been inspected and approved by the owner/Consultant or unless the owner's consent in writing to this being done without their previous inspection and approval ***has been obtained in advance***.
- f) Inspection/***waiver*** by Owner/***Consultant*** shall not, however, relieve the contractor of its obligations including guarantees and warranty obligations hereunder.

ARTICLE-17: ORIGIN OF MATERIALS

- a) The Owner shall have the right, at any time, to call upon the contractor for evidence of origin of raw materials and parts of equipment.
- b) All equipment supplied or used shall be new and of first class and quality of the grade specified.

ARTICLE-18: MILL CERTIFICATES

All mill certificates covering physical and analytical tests are to be produced as called for by the owner/consultant at no extra cost.

ARTICLE-19: FLAME PROOF ELECTRICAL EQUIPMENT

Where the equipment includes flame-proof electrical equipment to a recognised Indian Standard or code of practice, then the contractor shall forward copies of the relevant certificates to the owner at no extra cost.

ARTICLE-20: TEST CERTIFICATES

The contractor will if so, required by the owner/consultant supply specified numbers of test certificates and/or materials analysis certificates. ***Reports from recognised agencies of repute (The agencies shall be approved by consultant/owner)***. In case of any doubt the contractor shall repeat the test at their own cost.

ARTICLE-21: ACCESS TO AND POSSESSION OF THE SITE

- a) ***Subject to paragraph (c) hereof, access to and possession of the site shall be afforded to contractor by the owner/consultant in reasonable time.***
- b) In the execution of the work, no persons other than contractor's employees shall be allowed on the site, except by the written permission of the owner, but facilities to inspect the work at all times shall be afforded to the owner/consultant and their representatives and other authorised officials or representatives of the owner/consultant.
- c) The access to and possession of the site referred to in paragraph (a) hereof shall not be exclusive to the contractor but only such as shall to enable them to execute the work. The contractor shall afford to the owner/consultant, and to other contractors authorised by owner/consultant every reasonable facility for the execution of work concurrently with their own.
- d) Unless otherwise provided in the contract, the owner shall give contractor facilities as far as possible for carrying out the work on the site continuously during the normal working hours as fixed by the owner, the owner may, after consulting with the consultant direct that the work shall be done at other times if it shall be practicable in the circumstances for the work to be so done.

- e) The contractor shall be entitled to use such supply of electricity and water as are made available by the owner under the terms of the contract at site for the purpose of the work and shall, at their own expenses, provide any apparatus necessary for such use

ARTICLE-22: CONTRACTOR'S EQUIPMENT

The contractor shall, at their own risk and expenses, provide all equipment necessary to execute and complete the work, if any equipment is available with owner at the site, the contractor may, with the written consent of the owner, use the same on payment of necessary charges as fixed by the owner.

All contractor's equipment shall be used solely for the purpose of the work at site and shall not be removed from site out by the contractor, without the permission in writing of the Owner, and the contractor shall be liable for the loss or destruction thereof or damage thereto. If there shall be any due owing or accruing to owner, from the contractor any money in respect of this contract, the owner shall be at liberty, at the cost of the contractors, to sell and dispose of any such (Contractors) equipment, as the owner shall think fit, and to apply the proceeds in or towards the satisfaction of such money as aforesaid.

ARTICLE-23: CONTRACTOR'S REPRESENTATIVES AND WORKMEN AT SITE

- a) The contractor shall employ one or more competent and authorised representative whose name or names with specimen signature shall have previously been communicated in writing to the owner/consultant by the contractor, to superintend and carrying out of the work. The said representative shall be present at site during working hours, and any orders or instructions which the owner/consultant may give to the said representative shall be deemed to have been received by the contractor.
- b) The consultant and/or owner shall be at liberty by notice in writing to the contractor to object to any representative or person employed for execution of or otherwise about the work, who shall, in the opinion of the owner/consultant, misconduct himself or be incompetent or negligent, and the contractor shall remove such person from the site forthwith.
- c) The consultant and owner shall be given the opportunity to approve the employment of casual labour hired for the work.
- d) The contractor and their employees shall abide by the site working rules.
- e) The contractor shall immediately notify the owner/consultant in writing of any labour dispute affecting the work. Such notice shall describe the nature of labour dispute and the actions being taken by the contractor to settle the disputes.
- f) The contractor shall keep the owner/Consultant indemnified from and against all personal and third-party claims whatsoever (inclusive of all costs incurred between attorney and client) arising out of any act, omission or intermission on part of contractor, any sub-contractor or agent, sub-agent, consultant or employee of the contractor or any sub-contractor whether committed, omitted or arising within or without the scope of the contract, sub-contract agency or employment, as the case may be.

ARTICLE-24: LIABILITY FOR ACCIDENTS, DAMAGE AND INSURANCE

- a) The contractor shall, during the execution of the work, properly cover up and protect any part of the work liable to injury by exposure to the weather and; shall take every reasonable precaution against accident or injury to the work from any cause.
- b) All contractor's equipment shall be at the sole risk of the contractor.

- c) The contractor will insure all their personnel employed for the execution of the work against any personal injury that may be sustained by them as a result of the execution of the work and present satisfactory evidence to the owner/consultant that such insurance is in force.
- d) The contractor shall be responsible for workman's compensation insurance and all other statutory requirements in regard to the personnel in the contractor's employment.
- e) *The contractor at their own cost shall arrange, secure and maintain all insurance that may be pertinent to the works and obligatory in terms of law to protect their interest and interest of the owner against all points including accident insurance in the joint names of contractor and the owner. Contractors All Risk Insurance Policy covering a) fire & lightening/lighting, b) accident damage during construction for example due to dropping or falling or defective workmanship and materials, lack of skill, negligence, malicious act or human error, c) water damage, flood, storm, tempest inundation, earthquake, d) Collapse, collisions, impact e) theft and burglary, malicious damage f) subsidence, land slide, rock slide. This shall cover any injury, loss or damage caused to third parties (including members of the public, neighbouring properties, and other agencies on site) arising out of the performance of the contract. The period of insurance cover shall be from commencement of work up to completion and handing over of the work to the owners. The sum insured should represent the completed value of work done including cost of all materials etc.*

ARTICLE-25: TIME FOR COMPLETION

- a) The completion time for the project is 18 Months from handing over of the site to contractor and the same shall be subject to force majeure as per Article 39.
- b) For variation in the scope of work resulting into additional 10% in quoted contract value, no extension in completion time shall be admissible. Notwithstanding any other provision in the contract, the Owner/Consultant may at any time of its own initiative or at the request of the contractor, if satisfied of the existence of any ground (s) may extend the completion period by duration as deemed reasonable. The decision of the Owner/Consultant in this regard shall be final and binding upon the contractor.
- c) The contractor shall submit a detailed Project schedule giving dates of starting and finishing of various activities related to the work providing sufficient margin to cover for contingencies and for final testing and consequential repair etc. to the owner/consultant for approval. The owner/consultant and contractor shall thereafter within seven days settle the project schedule and the project schedule so finalized shall be the approved project schedule and shall form part of the contract with attendant obligations upon contractor to commence the various works/operations involved on or before the date(s) mentioned in the project schedule and to conclude the said work (s)/operation(s) on or before date mentioned in this behalf in the approved project schedule, and default by contractor to commence or complete within prescribed date(s) any work or operation shall be deemed to be a breach of contract by the contractor to which the provisions of Article 30 relating to termination of contract shall be applicable, but without prejudice to any other rights or remedies that owner may have in this behalf.
- d) Predetermined agreed damages for delay:
If for reasons not attributable to the owner or due to conditions not constituting force majeure as defined in this contract the work is not completed in accordance with the provisions hereof within and in accordance with the Time Schedule hereto/the TIME FOR COMPLETION, it is clearly understood and agreed that the Owner shall be entitled to and the contractor shall pay to the Owner the following as mutually agreed damages for delay (which are a genuine pre-estimate made by the parties of the loss which the Owner would have suffered on account of

such delay in completion of the work) after taking into consideration all circumstances and not as liquidated damages or penalty and without the owner being required to establish and prove the actual loss/damage suffered by the owner on account of such delay :

- i. The pre estimated mutually agreed damages for delay pursuant hereto shall be payable at the rate of 1/2% of total contract value per week or part thereof's delay in completion of the work subject to a maximum of 5% of final value of work. It is expressly agreed by and between the owner and the contractor that no prior notice will be required to be given by the owner to the contractor, before effecting recovery of compensation amount from their bills/other due if any.
- ii. Notwithstanding anything to the contrary contained in this Contract and without prejudice to the rights of the Owner under this CONTRACT and the entitlement to the said pre-estimated mutually agreed compensation for delay and in addition and not in derogation or substitution thereof the owner shall be entitled to terminate this contract in whole or in part without being liable to the contractor in any manner whatsoever or to have the uncompleted portion of the work to be executed/performed pursuant hereto by the contractor completed/executed/performed at the risk and cost of the contractor in the event of, and despite 30 days' notice in writing the contractor failing to complete/execute/perform all or any part of the work to be completed/executed/performed pursuant hereto by the contractor within and in accordance with the Time Schedule /the TIME FOR COMPLETION as extended in accordance with the provisions hereof or by the owner.

ARTICLE-26: COMPLETION TEST

Completion test if applicable shall be carried out as per technical specification in Contract/BIS.

ARTICLE-27: TAKING OVER

- a) Taking over shall be done at one stage after completion of the entire job except where desired by owner otherwise. Only one completion certificate shall be issued after completion of all jobs.
- b) Within 15 days of carrying out final inspection of the works at any job site covered by the contract, the contractor shall clear the job site covered by the contract, the contractor shall clear the job site of all scaffolding, wiring, pipes, surplus materials, contractor's labour's equipment and machinery and shall, demolish, dismantle and remove all contractor's site offices and quarters and other temporary works, structures and constructions and other items and things whatsoever brought upon or erected at the job site or any land allotted to the contractor by the owner and not incorporated in the permanent works and shall remove all rubbish from the job site and the land allotted to contractor and shall clear level and dress the job site and said land to the satisfaction of the owner/consultant and shall put the owner in undisputed custody and possession of the job site and all land allotted by the owner to the contractor, and unless the contractor shall have fulfilled the provisions of this clause the works shall not be deemed to have been completed.
- c) The contractor shall submit following documents as desired by owner before completion certificate is issued:
 - i) The Technical Documents according to which the work was carried out;
 - ii) Complete set of working drawings showing therein corrections and modifications (if any) made during the course of execution of the works, signed by the owner;
 - iii) Certificates of final levels as set for various works, signed by the owner;
 - iv) Final Test Certificate;
 - v) Certificates of owner; of satisfactory fulfilment of the provisions as above hereof;
 - vi) List of owners supplied surplus materials returned to owner's stores, signed by the owner;

- vii) Materials-at-site accounting for owner supplied materials, signed by the owner;
 - viii) List of the scrap materials returned to store, signed by the owner; and
 - ix) Discharge certificate in respect of owner supplied equipment and machinery signed by the owner.
 - x) Any other certificate/document which owner/consultant may find necessary.
- d) The issue of completion certificate shall be without prejudice to the owner's rights and contractor's liabilities under the contract, including the contractor's liability for the defect liability period nor shall the issue of a completion certificate in respect of the works or work at the job site be construed as a waiver of any right or claim of the owner against the contractor in respect of work or the works at the job site in respect of which the completion certificate has been issued.
 - e) Up to and until issue of the completion certificate as provided for herein above in respect of the works or the works at job site the relative work(s) shall be and remain at the risks of the contractor in all respects, including (but not limited to) accident, fire, lightning, earthquake, flood, store, tempest, riot, civil commotion and /or war.

ARTICLE-28: SUSPENSION OF WORK ON INSTRUCTION OF OWNER/ CONSULTANTS

- a) The Contractor shall on the written order of the owner/consultant, delay or suspend the progress of the work for such time or times and to such extent and in such manner as owner/consultant may specify.
- b) All reasonable expenses incurred by the contractor by reason of such delay or suspension by the owner/consultant otherwise than in consequence of some default on the part of the contractor shall be added to the contract price, provided that no claim shall be made under this article unless the contractor has within 7 days, after the event giving rise to the claim, give notice in writing to the owner/consultant of their intention to make such claim. However, no compensation for suspension of work by the consultant or the owner shall be payable to the contractor if the period of suspension is 30 days or less.
- c) If in the opinion of the contractor the suspension shall necessitate any extension in the time of completion, the provision of clause no. 25 hereof and related clause in respect of extension of time shall apply.

ARTICLE-29: CANCELLATION OF CONTRACT

- a) The owner shall be entitled at any time at its discretion to cancel the contract if, in the opinion of the owner, the cessation of the work becomes necessary owing to any cause whatsoever, and a notice in writing from the owner to the contractor of such cancellation and the reason(s) therefore shall be conclusive proof of such cancellation and the reasons thereof.
- b) Upon cancellation of the contract, the owner shall take over from the contractor the approved materials lying at job site on the date of the cancellation at the rate(s) for such material(s) as specified in relative item(s) of the schedule of rates, and if the rate(s) for any material(s) be not (in the opinion of the owner which shall be final) specified in the schedule of rates at market rate(s) for such material(s) current on the date of the cancellation. The decision of the owner/consultant as to the approved materials lying at site on the date of cancellation and the quantities and market rate(s) thereof shall be final and binding upon the contractor.
- c) The contractor shall not be entitled to any compensation in addition to the payment for the work actually performed by rates as a result of such cancellation notwithstanding that such cancellation may have resulted in the performance of quantities of work below the quantities indicated in the form of schedule of rates and/or of a value below the total contract value indicated in the work order.

ARTICLE-30: TERMINATION

1. A) Owner may, for breach of any provision of the contract by the contractor at any time by notice in writing to the contractor, terminate the contract.
B) In the event of termination pursuant to paragraph(s) of this Article-
 - i) The contractor shall carry out instructions of the owner in connection with such termination including the cancellation of orders and the termination of contracts which the contractor may have placed with others.
 - ii) The owner shall pay the contractor for all materials used and work executed pursuant to the contract, but unpaid at the date of such termination together with any costs necessarily incurred by the contractor in connection with the work as a result of such termination provided that owner shall not be liable for any indirect loss, any business loss or damage or loss of profit suffered by the contractor as a result of such termination.
 - iii) For the purpose of determining the amount due to the contractor joint measurements shall be taken for the work completed and material supplied as on the date of termination. Bill prepared by the contractor on the basis thereof shall be deemed to be the final bill.C) The contractor shall upon receiving notice from the owner in accordance with paragraph (a) of this Article, notify the owner within a reasonable time of the sums for materials used and work executed as mentioned in paragraph (b) (ii) of this Article. These sums and all terms and conditions of termination pursuant to this Article may be agreed in writing between the owner and the contractor.
2. In the event of any breach of the provisions of the agreement or default in the performance of the obligations by the contractor not being remedied by them within 30 days of receipt of notice in that behalf from the owner, the owner shall be entitled to terminate the contract forthwith without prejudice to its other rights and remedies hereunder, by a communication in writing to the contractor and as such on termination the contractor shall be liable to pay to the owner for all loss and damages and sums that may be suffered and incurred by the owner including the additional costs incurred in rectifying default and/or completing unfinished work notwithstanding anything contrary contained in this contract.
3. Upon termination of the contract pursuant to this Article, obligations of the parties hereto shall cease except as to the liabilities of either party to the other for obligations accrued prior to the date of such termination.

Within 15 days of completion of measurements, the contractor shall clear the job site of all scaffolding, wiring surplus materials, labours, construction tools, equipment & machinery and shall dismantle, demolish and remove site office, labours quarters etc. or any other thing instructed by owner. Should the contractor fail to comply with the instructions of owner in this regard, owner shall be entitled to take undisputed possession of site and take action for site clearance at the risk and cost of contractor.

ARTICLE-31: MAINTENANCE PERIOD

- a) The contractor guarantees that the work shall perform in accordance with the contract. They shall protect the work until the completion of same as certified in writing by the owner/consultant.
- b) They shall also maintain in good and substantial repair, fair wear and tear expected, the whole of the works until the expiration of the maintenance period of 12 months after the certified completion of the works as whole and they shall also be liable for the soundness and stability thereof, and be responsible for injury to any person or property owing to any settlement, failure, defect, damage or fault due to any cause whatsoever other than earthquake or fire during this period. This liability and responsibility shall not be affected or removed by any certificate of satisfaction or for payment of money which the owner/consultant may at any time give or have given. Moreover, the contractor shall at their own cost, restore such settlement, failure, defect, damage or fault without charge to the owner or the owner may restore such settlement; failure,

defect or damage at the contractor's risk and cost. In any case, the contractor shall be liable for and shall pay and make good to the owner or other person or parties being entitled thereto, all losses, costs and expenses they or any of them may put to or be liable to be by reason or in consequence of the settlement, failure, damage or defect and the owner may deduct the amount of losses, cost or expenses from any sum due or to become due to the contractor, or may recover the same from their performance guarantee.

- c) The defects or other faults which may appear within the said maintenance period and which in the opinion of the owner/consultant who shall be the sole deciding authority in this respect have arisen from material or workmanship not in accordance with the contract, shall be rectified by the contractor at their own cost to the satisfaction of the owner/consultant within the period mentioned in the notice to be issued by the owner/consultant specifying the defects and directing the rectification thereof. Failing this rectification, the owner will be at liberty to rectify the said defects by and through any other agency at their sole discretion entirely at the risk and cost of the contractor. In the event of such rectification being carried out by the owner on default of the contractor Owner shall deduct from the contractor's dues such sum of money as may be certified by the owner/consultant for the rectification for the said defects. The certificate of the owner/consultant in this respect as aforesaid shall be final, binding and conclusive to the contractors. Provided always that the liability of the contractor under this condition shall not extend beyond the maintenance period as aforesaid except as regards the defects and faults which the owner/consultant may have previously given notice to the contractor to rectify.

ARTICLE-32: PAYMENT DUE FROM THE CONTRACTOR

All costs, damages or expenses for which the contractor is liable under the contract may be deducted from any money due or becoming due to the contractor on any account whatsoever or may be recovered by action at law or arbitration.

ARTICLE-33: OBSERVANCE AND COMPLIANCE OF STATUTORY RULES/ LAWS

- a) The rights and obligations of owner and contractor and provisions of the agreement shall be governed by the Indian Laws.
- b) The contractor will be fully responsible for all matters arising out of the performance of the contract and shall comply at their own expenses with all the laws/ enactment's/ orders/ regulations/ statutory obligations, whatsoever, of the Government of India/State Govt./any Statutory or non-statutory authority. The contractor hereby agrees to indemnify and keep harmless the owner/consultant against all liabilities in this respect. The contractor shall be fully and exclusively responsible for the work, conduct, supervision and control of all their own personnel and personnel employed by the sub-contractor engaged by them and owner/consultant shall in no way be responsible for supervision, control etc. of these personnel. Since the contractor shall have full and exclusive supervision and control over the contract, awarded to them and the people engaged for this purpose, the contractor or their sub-contractor, as the case may be, shall be the principal employer under the contract labour (Regulation & Abolition) Act. 1970 and the contractor shall register himself as such; and the owner/consultant shall have no responsibility and liability on this account.
- c) The contractor shall observe all safety rules so that no harm or damage is done to the owner's employees or property. The owner/consultant shall have their right to object to any unsafe practices followed by the contractor or their subcontractors. If on account of the contractor or sub-contractor, owner's property or personnel are likely to suffer any damage in such cases any directions, issued by owner/consultant shall be complied with by the contractor and their sub - contractors.
- d) The contractor shall at all times be responsible for work under the supervision and control of all its personnel in connection with the work awarded to them under this contract whether the personnel are employed by the contractor or by any sub-contractor engaged by them.

- e) If, in the opinion of owner, any employee or employees of the contractor or their sub-contractor is found to be suffering from any disease, infections or otherwise or if any employee of the contractor or their sub-contractor is found to commit any misconduct including use of intoxicants or on account of any other reasonable cause, owner/consultant at its sole discretion may if require, the contractor to remove such employee(s) without questioning the decision of the owner/consultant in this respect and owner will be entitled to restrain such employee(s) from entering the premises.
- f) The contractor shall engage sufficient number of personnel with suitable qualification and experience so that the work and job assigned to the contractor are completed as per the specifications and within the time schedule.
- g) Contractor shall be responsible to keep himself informed of all the statutory laws, rules and Regulations of Central Government, Municipality etc. Contractor shall be responsible to secure compliance with all central and state laws as well as the rules, regulations, bye-laws and orders of the local authorities and statutory bodies as may be in force from time to time.
- h) Contractor shall be responsible to ensure that no loss or damage is caused to the adjoining property around the battery limits of the project. In case of any damage or loss to adjoining property, which is attributable to them, the contractor shall make good the loss or damage at their own cost.
- i) The wages of every labourer employed by the contractor under this contract shall be paid by them before the expiry of 7 days after the last day of the month in respect of which the wages are payable (i.e., wages of the previous month). The minimum wages rate as notified from time to time by the Government as per the minimum wages act. 1948 and/or such other authority will have to be paid by the contractor to all their workers. The payments shall be disbursed against muster roll in the presence of the owner's representative and the same shall be affected during working hours in the factory premises. In case of any default/delay, the company will have the right to disburse the due payments to the contractor's workmen and the amount so disbursed together with any other expense incurred by the company to meet the contractor's pending bills/security deposit, if any besides, the owner shall also have the right to cancel the contract forthwith.
- j) **PROVIDENT FUND**
The contractor will also strictly observe the provisions of employee's provident fund act. The tenderer to whom work is awarded will be required to obtain P.F. code no. from R.P.F.C./ A.R.P.F.C. & remit the recoveries to them. The contractor will submit documentary evidence of their registration with R.P.F.C./A.R.P.F.C. & details of remittance to owners on a monthly basis during the entire contract period, failing which the payment of bills will not be released.

ARTICLE-34: ARBITRATION

- a. Any dispute or difference whatsoever arising between the parties out of relating to the construction, meaning, scope, operation or effect of this contract or the validity or the breach thereof shall be settled by arbitration in accordance with the provisions of the Arbitration & Conciliation Act, 1996 and the award made in pursuance thereof shall be binding on the parties.
- b. The performance under this contract shall not stop for any reason whatsoever during the said dispute/proceedings, unless the contractor/supplier is specifically directed by Owner/Buyer to desist from working in this behalf.
- c. The venue of all arbitration shall be Delhi/Noida.
- d. The language of proceedings shall be English.
- e. The Law governing the substantive issues between the parties shall be the Laws of India.

ARTICLE-35: RECOURSE

The Owner shall have recourse to the contractor for any costs, claims, demands, proceedings, damages and expenses whatsoever arising out of or in connection with any failure of the contractor to perform any of their obligations under the terms of contract.

ARTICLE-36: ADVERTISEMENT

No advertisement, publicity matter or other literature in relation to the contract or the work is to be published or utilised by the contractor except with prior written permission of the owner.

ARTICLE-37: CONSTRUCTION OF CONTRACT

The contract to the exclusion of all other agreement, statements or representation whether oral or written constitutes the full agreement between the parties hereto for the work to be performed hereunder.

ARTICLE-38: INTERPRETATION OF CONTRACT

The several contract documents forming the contracts are to be read together as a whole and are to be taken as mutually explanatory.

Should there be any doubt or ambiguity in the interpretation of the contract documents or error, omission or contradiction therein or in any of them, the contractor shall prior to commencing the relative work, apply in writing to the owner for their decision in resolution of the doubt, ambiguity or contradiction or correction of the error or omission, as the case may be. Should the contractor fail to apply to the owner for their decision, as aforesaid prior to commencing the relative work, the contractor shall perform said work as per interpretation of owner whose decision shall be final and binding on contractor

ARTICLE-39: FORCE MAJEURE

- a. The terms and conditions agreed upon with respect to this agreement shall be subject to 'Force Majeure'. 'Force Majeure' shall be deemed to be only cause beyond the reasonable control of the contractor or the owner, as the case may be, which prevents or impedes the due performance of the agreement and which by the due diligence the affected party is unable to avoid or overcome through its individual concerted effort. For the purpose of this Article, Force Majeure shall mean and be limited to the following:
 - i) any war or hostilities;
 - ii) any riots or civil commotion;
 - iii) any earthquake, flood, tempest, lightening or other natural physical disaster;
 - iv) any accident fire or explosion not caused by the negligence of the contractor;
 - v) any legal strike / lock-out or other industrial disturbance (only those exceeding 10 continuous days in duration) affecting the performance of the contractual obligation.
 - vi) any law or order of any Government Department or other authority which delays or impedes the contractor in the execution of the work.
- b. If either party is prevented or inordinately delayed in the performance of any of its obligations under the agreement by Force Majeure and if affected party gives written notice to the other party specifying the matter constituting Force Majeure with necessary evidence that a contractual obligation is thereby prevented or delayed, and the further period which it is estimated that such

prevention or delay will continue, then the affected party shall be excused the performance or delayed performance as the case may be of such obligations as from the date of such notice for so long as may be justified.

- c. Any occurrences of Force Majeure shall be informed in writing within seven days of occurrence otherwise it shall not be deemed as force majeure. Such Force Majeure shall be effective from the date of receipt of such notice from either party. Continuance of Force Majeure shall be informed every week.
- d. If by virtue of the proceeding paragraphs either party shall be excused the performance or punctual performance of any obligation for a continuous period of six months, the parties shall consult together with a view to agreeing what action should in the circumstances be taken and what amendments to the terms of the contract ought to be made.
- e. For variation in the scope of work resulting into additional 10% in quoted contract value, no extension in completion time shall be admissible. Notwithstanding any other provision in the contract, the Owner/Consultant may at any time of its own initiative or at the request of the contractor, if satisfied of the existence of any ground (s) may extend the completion period by duration as deemed reasonable. The decision of the Owner/Consultant in this regard shall be final and binding upon the contractor.
- f. Within seven days from the date of receipt of work Order the contractor shall submit to the owner/consultant for approval in respect of each job site or groups of work if so, required a detailed Progress schedule in graphical or other suitable form giving dates of starting and finishing of various operations and works related to the work providing sufficient margin to cover for contingencies and for final testing and consequential repair etc., if any required. The owner/consultant and contractor shall thereafter within seven days settle the progress schedule and the progress schedule so settled shall be the approved progress schedule and shall form part of the contract with attendant obligations upon contractor to commence the various works/operations involved on or before the date(s) mentioned in; the progress schedule and to conclude the said work (s)/operation(s) on or before date mentioned in this behalf in the approved progress schedule, and default by contractor to commence or complete within prescribed date(s) any work or operation shall be deemed to be a breach of contract by the contractor to which the provisions of Article 30 relating to termination of contract shall be applicable, but without prejudice to any other rights or remedies that owner may have in this behalf.

SITE WORKING AND SAFETY CONDITIONS

1.0 SITE LOCATION

The location of the project site is **KRIBHCO Seed Processing Unit, 7Th Km Stone, Bagla Road, Hisar, Haryana, India, 125001**. The site is comparatively level and access roads, and internal roads are available in the area. Any extra requirement for these for contractor's specific use shall be contractor's scope at their cost.

2.0 SITE ESTABLISHMENT

- 2.1 The contractor shall provide all nuts, stores, tarpaulins and other covers for the accommodation of their staff, workmen and materials. All materials likely to deteriorate in the open shall be stored under suitable cover.
- 2.2 The contractor shall advise the owner/Consultant within 21 days of the placement of LOI their space requirement which shall include for office, covered storage, open storage, fabrication space, etc. Depending on availability & requirement, space shall be allotted to the contractor for the duration of this contract. They will not be permitted to make use of any other space without the sanction of the Owner. The use of this space shall strictly be made for the execution of this contract only. The sanitary conditions of the ground in or around such structures shall, at all times, be maintained by the contractor in a manner satisfactory to the consultant/owner.
- 2.3 ***The security of the contractor's equipment and materials is their own responsibility.***
- 2.4 The material issued to the contractor by the owner/consultant will remain under the custody of contractor as a trustee. However, title on the same will remain with the owner. The contractor will be responsible for loss or damage to such materials and shall preserve them in good working condition as required for the contract and good construction practices till such time that they are incorporated in the works and erected, aligned and fully installed in position and handed over to the owner. In case the owner/consultant feels that arrangements made by the contractor are not adequate they shall so advise the contractor and the contractor shall promptly take corrective action. In case the contractor fails to take corrective consultant shall take such corrective actions and recover the cost thereof from the contractor's Bills. Account of such material on completion of work shall be rendered and surplus material returned to the owner as per instructions of owner/consultant.
- 2.5 The contractor shall clear away periodically any rubbish, scrap materials, etc. and dump the same in the area indicated by the owner/consultant. All construction material shall be neatly stacked in an orderly manner as directed by the owner/consultant and care shall be taken to allow proper access to workmen and easy movement of men, vehicles, cranes and materials.
- 2.6 The contractor shall maintain all the drawings carefully mounted on the board of appropriate size and well protected from the ravages of weather termites and other insects.
- 2.7 The contractor shall not permit the entry to the site of any person not directly connected/concerned with the work without first having obtained the written permission of owner/consultant.
- 2.8 The contractor shall submit a list of plant, equipments, tools, tackles, etc. which they will use, to perform the work. The contractor shall submit a list in duplicate of all materials, tools and tackles etc. brought inside the plant site duly signed by owner's security staff as per the rules laid by owner. These tools, etc. shall not be removed from the site till the completion of job. A gate pass must be obtained from the owner in order to remove from site any plant, machinery, tools, materials and equipment.

- 2.9 All items such as instructions and other pertinent data regarding erection/commissioning and maintenance should be typed and classified for transmittal in a manner approved by the owner/consultant.
- 2.10 All employees of owner/consultant. the contractor shall conform to any rules of conduct, etc. established by Failure to also will be sufficient cause for removal of such person from the site.
- 2.11 The contractor will be responsible for providing all plant, tools and tackles, consumables and scaffolding required for the execution of their work as per the best engineering practices.
- 2.12 The receipt, unloading, movement and storage at site of all the contractor's plant, tools and materials is their responsibility. The receipt, movement & storage of material issued by owner/consultant also shall be the responsibility of the contractor.

3 **ELECTRICITY**

Supply of Electricity on Chargeable Basis (By Metering Method)

The Contractor shall advise the Owner/Consultant within 7 days of the placement of LOI/Work Order about his electrical power requirements to allow the planning of the temporary electrical distribution. Power, subject to availability, will be made available ***on chargeable basis @ actual*** at one point within 100 meters distance from Contractor's work site and shop, Contractor shall make his own arrangement at his cost for drawing power from the Owner's distribution boards to his own distribution board. The power supply shall be made available at 415V 3-phase 50Hz. four wire system. Uninterrupted power supply can not be guaranteed by OWNER. The contractor shall ensure proper maintenance of distribution network in his area of work. Contractor may be required by owner to use his diesel driven generating and welding set at site at his own expense. In his tender contractor should indicate the number of diesel/generating driven welding set that will be deployed by him. All temporary wiring from the supply point for either power or lighting will be responsibility of the Contractor. The electricity charges will be recovered from the RA bills of contractor.

However, contractor shall not be entitled for any extension of time, claim for idle man power and/or loss of production or profits due to disruption in power supply. All temporary wiring must comply with local regulations and be subject to the Owner/Consultants inspection and approval before connection to supply. Owner shall provide general illumination at site. Additional lights if required by contractor, shall be arranged by Contractor. However, the contractor shall not use the power for running of stone crusher etc.

4 **CONSTRUCTION WATER**

The contractor will be responsible for arranging Supply of Construction Water at their own cost. The contractor shall ensure proper maintenance of distribution network in his area of work and maintain the same.

5 **FIRST AID**

The Contractor has to arrange all first aid facilities at their own cost.

6.0 **SUPERVISION OF WORK**

- 6.1 The Contractor shall submit to the Owner/Consultant a resume of their site supervisors for approval prior to commencement of the work. Once approved, the contractor shall not remove their site supervisors without prior concurrence of the Owner/Consultants.
- 6.2 The entire work is to be completed as per the agreed time schedule. The programme of the work in details shall be submitted by the Contractor before commencement of work. The detailed programmes prepared by the contractor shall conform to the targets set forth in the time schedule and will be subject to the approval of the owner/consultant. All the work shall be carried out in such a manner that the work of other agencies at site is not hampered due to any action of the Contractor.

7.0 INSPECTION

The work of the Contractor shall be subject to inspection by the Consultant and/or Owner at all times.

7.0 EMPLOYMENT OF LABOUR

- 7.1 The contractor will be expected to employ on the work only their regular skilled employees with experience of this particular work. The permission of the Owner/Consultant must be obtained before tradesman are recruited locally for the work. This rule does not apply to unskilled labour. No female labour shall be employed in dark hours/i.e. hours prohibited under the applicable law. No person below the age of eighteen years shall be employed at any point of time.
- 7.2 All traveling expenses including provision of all necessary transport to and from site, lodging allowances and other payments to the contractors employees are their own responsibility.
- 7.3 The hours of work on the site shall be decided by the Owner/Consultant and contractor *shall adhere to the same*.
- 7.4 All contractors employees shall *wear safety helmets, safety shoes and all other personnel protective gears (PPEs) and such identification marks as may be provided by contractor on work site and duly approved by consultant/owners*.
- 7.5 All notices displayed on the site and any instructions issued by the Owner/Consultant shall be strictly adhered to by the Contractor's and/or their sub-contractors employees.
- 7.6 The Owner may on request of Contractor allocate subject to availability some space to the Contractor for their labour colony. It shall be the responsibility of contractor to provide suitable accommodation including necessary facilities. Subject to availability, electricity and water may also be provided at one point. Further distribution, as required, shall be done by Contractor *without any cost to owners*.
- 7.7 Contractor will arrange for Ration Cards and Permits *for labour as per statutory provisions for its labour, as necessary*.
- 7.8 The Contractor shall be required to *maintain employment records as covered in relevant Acts* and produce documentary evidence to the effect that they has discharged their obligations under the Employees Provident Fund Act 1952 for the workmen working at site.
- 7.9 In case the Owner becomes liable to pay any wages or dues to the labour of the Contractor or their sub contractor or any Govt. agency under any of the provision of the Minimum Wages Act, Workmen Compensation Act or any other law due to act of omission of the Contractor, the Owner may make such payment and shall recover the sum from Contractor's bills *or any other dues*.
- 7.10 The Contractor shall register itself under ESI Act, 1948 and ammendment there of to avail ESI(Employee State Insurance) for its Contract Labourers. He shall within 15 days of close of every month submit to Kribhco a statement showing the recoveries of contributions in respect of each employee employed at site

8.0 COMPLETION OF WORK

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

9.0 WORKING AND SAFETY REGULATIONS

- 9.1 The Contractor shall observe all Statutory safety and legal requirements regulations issued by Central and State Governments applicable to the work as well as any local regulations applicable to the site issue by the consultant or any other authority.
- 9.2 Particular attention is drawn to the following :

- i. In case of accident, the Owner/Consultant shall be informed in writing forthwith. The Contractor shall strictly follow regulations laid down by Factory Inspector, Govt. and State authorities in this regard.
 - ii. Contractor shall *fence* their plant, platforms, excavations etc.
 - iii. Compliance with all electricity regulations.
 - iv. Compliance with statutory requirements for inspection and test of all lifting appliances and auxiliary lifting gear.
- 9.3 Staircase, doors or gangways shall not be obstructed in any way that will interfere with means of access of escape.
- 9.4 No excavations will be started without the permission of the Owner, who will inform the Contractor of the position of any pipes or cables known to be buried in the area. All excavations must be effectively railed off at all times, or completely boarded over properly marked during the hours of darkness by red warning lamps, using Flame proof warning lamps in non smoking areas. Debris or material which cannot be immediately removed must be heaped in such a way as to be immediately remove and also to leave adequate passage way. Any finds such as relics or antiques coins or fossils etc. shall be promptly handed over to the Owner.
- 9.5 The contractor will notify the Owner of their intention to bring on the site any equipment, such as, space heating or welding apparatus or any container holding liquid or gaseous fuel or other substance which might create a hazard. The Owner/Consultant will have a right to prohibit the use of such equipment or to prescribe the conditions under which such equipment may be used. The consultant will have the right to inspect any construction plant, and to forbid its use if in their opinion it is un suitable or unsafe. No claim arising there from shall be made by the Contractor.

The contractor or any one acting on their instructions will not bring on to the site any radio active substance or any apparatus using such substances or any X ray apparatus until written permission and direction regarding the use of such equipment has been received from the Consultant/Owner.

The contractor shall be responsible for the safe storage of the radio graphic sources or those of their sub contractors.

- 9.6 The Contractor will meet all requirements, and act on the instructions of the Owner/ Consultants where it is necessary to operate a permit to work system.
- 9.7 Where it is necessary to provide and/or store petroleum products or petroleum mixtures and explosive, the contractor shall be responsible for carrying out such provision and/or storage in accordance with the rules and regulation laid down in Petroleum Act 1934. Explosive Act 1948 and Petroleum and Carbide of Calcium Manual Published by the Chief Inspector of Explosive of India. All such storage shall have prior approvals of the Consultant. In case any approval or clearance from Explosive or any statutory authorities is required, the contractor shall be responsible for obtaining the same.
- 9.8 The contractor shall have their own Fire Fighting Extinguishers and Equipment.
- 9.9 The contractor shall be responsible for the provision of all safety notices safety equipments including the safety gadgets for their workmen required by both the relevant legislation and such as the Owner/Consultant may deem necessary.
- 9.10 While working at heights, safety belts shall necessarily be used.

10.0 ELECTRICAL SAFETY REGULATIONS

- 10.1 In no circumstances will the contractor interfere with fuse and electrical equipment belonging to the owner or other contractors.

- 10.2 Before the contractor connects any electrical appliances to any plug or socket belonging to the other contractor or owner, they will -
- i. Satisfy the Owner/Consultant that the appliance is in good working condition.
 - ii. Inform the owner/consultant of the maximum current rating, voltage and phase of appliance.
 - iii. Obtain permission of the Owner/Consultant dealing the sockets to which the appliance may be connected.
- 10.3 The owner/consultant will not grant permission to plug in until they is satisfied that-
- i. The appliance is in good condition and is fitted with a suitable plug.
 - ii. The appliance is fitted with a suitable cable having two earth conductors, one of which shall be earthed metal sheath surrounding the cores.
- 10.4 No electric cable in use by the other contractor/owner will be distributed without prior permission. No weight of any description be imposed on any such cable and no ladder or similar equipment will rest against or be attached to it.
- 10.5 The voltage for all portable equipment e.g. drilling machines, temporary lighting etc. will not exceed 240 volts.
- 10.6 No work must be carried out on any live equipment. The equipment must be made safe and a “permit to work” issued before any work is carried out.
- 10.7 Contractor shall employ electrician to maintain their temporary electrical installation.

AGREEMENT

(On Non-Judicial Stamp Paper of Rs.100/-)

THIS agreement is made at this _____ day of 2025 between Krishak Bharati Cooperative Limited, a Multi-unit Cooperative Society incorporated under the provision of the Multi State Cooperative Society Act 2002 and having its Registered Office at A-60, Kailash colony, New Delhi-110048, _____ India/unit _____ (address) _____ (hereinafter referred to as "OWNER") which expression shall be deemed to include its successors and permitted assigns of the one part and _____ whose registered office is situated at _____ (hereinafter referred to as the "CONTRACTOR") which expression shall be deemed to include its successors and permitted assigns of the other part.

Whereas the owner desires to have executed certain works more specifically mentioned and described in the contract documents (hereinafter called the "work" which expression shall include all amendments therein and/or modifications thereof) and has accepted the tender of the Contractor for the said work.

NOW, THEREFORE, THIS CONTRACT WITNESSETH as follows :

ARTICLE 1 - CONTRACT DOCUMENTS

- 1.1 The following documents shall form part and parcel of this agreement :
- a. Tender documents
 - b. Acceptance of LOI/Work Order.
 - c. Minutes of meeting if any between KRIBHCO and contractor held after opening of bid and award of work.

ARTICLE 2 - WORK TO BE PERFORMED

- 2.1 The contractor shall perform the ***work as mentioned in the work order*** upon the terms and conditions and within the time specified in the contract documents.

ARTICLE 3 - JURISDICTION

- 3.1 In the event of any dispute arising from this contract, court at Delhi/Plant Site alone shall have jurisdiction to try and hear the dispute.***

ARTICLE 4 - ENTIRE CONTRACT

- 4.1 The contract documents mentioned in Article 1 hereof embody the entire contract between the parties hereto, and the parties declare that in entering this contract they do not rely upon any previous representation, whether express or implied and whether written or oral, or any inducement, understanding or agreement of any kind not included within the contract document and all prior negotiations, representative, contract, any/or agreement and understanding are hereby cancelled.

ARTICLE 5 - NOTICE

- 5.1 Subject to any provision in the contract documents to the contrary, any notice, order or communication sought to be served by the Contractor on the owner with reference to the contract shall be deemed to have been sufficiently served upon the Owner (notwithstanding any enabling provisions under any law to the contrary) only if delivered by hand or by registered acknowledgment due post to the owner as defined in the General Conditions of Contract.
- 5.2 Without prejudice to any other mode of service provided for in the contract documents or otherwise available to the Owner, any notice, order or other communication sought to be served by the Owner on the contractor with reference to the contract, shall be deemed to have been sufficiently served if delivered by hand or through registered post acknowledgment due to the principal office of the contractor at

ARTICLE 6 - WAIVER

- 6.1 No failure or delay by the owner in enforcing any right or remedy of the owner in terms of the contract or any obligation or liability of the contractor in terms thereof shall be deemed to be a waiver of such right, remedy, and notwithstanding such failure or delay, the Owner shall be entitled at any time to enforce such right, remedy, obligation or liability, as the case may be.

ARTICLE 7 - CONSIDERATION

Subject to and upon the terms and conditions contained in the contract document. The owner shall pay contractor CONSIDERATION as specified in the contract documents upon the satisfactory performance of the said work and/or otherwise as may be specified in the contract documents.

ARTICLE 8 - NON-ASSIGNABILITY

- 8.1 The contract and benefits and obligations thereof shall be personal to the contractor and shall not on any account be assignable or transferable by the contractor *except with specific prior permission of KRIBHCO.*

IN WITNESS WHERE of the parties hereto have duly executed this contract in duplicate the place, day and year first above written.

SIGNED AND DELIVERED

for and on behalf of

Krishak Bharati Cooperative Limited

by.....

(this day of2025)

for and on behalf of

.....(Contractor)

by.....

(this day of2025)

in the presence of :

in the presence of :

1

1.

2.

2.

SIGNED AND DELIVERED

ISSUE OF MATERIALS

1. GENERAL

- 1.1. The contractor shall at his own expense, provide all materials required including cement, steel for the works. Adequate stock of all the materials required for the work are to be maintained at site.
- 1.2. All materials to be provided by the contractor shall be in conformity with the specifications laid down in the contract and the contractor shall, if requested by the Owner/Consultant furnish proof to the satisfaction of the Owner/Consultant that the materials so conform to the laid down specifications.
- 1.3. The contractor shall, at their own expense and without delay, supply to the owner/ consultant samples of materials proposed to be used in the work. The Owner/ Consultant shall within seven days of samples, or with in such further period as they may require, intimate the contractor in writing, whether samples are approved by them or not. If samples are not approved, the contractor shall forthwith arrange to supply the Owner/Consultant for their approval fresh samples complying with the specification laid down in the contract.
- 1.4. The Owner/Consultant shall have full powers to require removal of any or all the materials brought to site by contractor which are not in accordance with the contract specifications or do not conform in character or qualify to the samples approved by them. In case of default on the part of the contractor in removing erected materials, the Owner/Consultant shall be at liberty to have them removed by other means. The Owner/Consultant shall have full powers to direct other proper materials to be substituted for erected materials and in the event of the contractor refusing to comply, they may cause the same to be supplied by other means. All risks and costs, which may arise upon such removal and/or substitution shall be borne by the contractor.
- 1.5. The contractor shall indemnify the Owner or any agent, servant or employees of the Owner against any action, claim or proceeding relating to infringement or use of any patent or design or any alleged patent or design rights and shall pay royalties or other charges which may be payable in respect of any article or materials or part thereof included in the contract. In the event of any claim being made or action being brought against the owner or any agent, servant or employee of the owner in respect of any such matters as aforesaid, the contractor shall immediately be notified thereof.
- 1.6. All charges on account of octroi, terminal or sales tax and other duties on materials obtained for the works from any source (excluding materials supplied by Owner) shall be borne by the contractor.
- 1.7. The Owner/Consultant shall be entitled to have tests carried out as specified for any material supplied by the contractor other than those for which, as stated above satisfactory proof has already been furnished, at the cost of the contractor and the contractor shall provide at their expenses all facilities which the Owner/Consultant may require for the purpose. The cost of the materials consumed in tests shall be borne by the contractor in all cases.

2. CONSUMPTION OF CEMENT & DAY TO DAY ACCOUNTING

- 2.1. Cement required for the work shall be supplied by contractor.
- 2.2. Where concrete of design mix is stipulated for the RCC works, the theoretical consumption of cement shall be calculated on the basis of the design mix approved.
- 2.3. In case of lower consumption of cement, recovery for sub-standard work at four times the issue rate of cement will be made in respect of the quantity of cement which is beyond the permissible percentage of variation stipulated without prejudice to other right available to the owner under the contract condition.
- 2.4. Day to day account of cement
The day to day account of all receipts and issues of cement in each godown of the contractor shall be maintained separately by the contractor. These accounts shall be made available for inspection of the Owner/ Consultant, weekly reports of statements giving details of issue, consumption and stock in hand of materials issued by the Owner shall be submitted to the Owner/Consultant.
- 2.5. Cement bags shall be stored in separate godowns with pucca floor and weather proof roof and walls.
- 2.6. Every cement godown shall be provided with proper locking arrangement. Any representative deducted by the owner shall be allowed at all hours to conduct surprise checks and physical verification of the godowns at the site of works.

3. REINFORCEMENT STEEL FOR CONCRETE WORK AND ROLLED STEEL SECTIONS FOR STRUCTURAL STEEL WORK

- 3.1. All reinforcement steel required for the work shall be provided by contractor at their own cost.
- 3.2. In case of steel reinforcement, steel used in this work as per design or as authorised by the Owner/Consultant including authorised lappages shall be measured. In case of structural steel work, steel used in the work as per design or as authorised by the Owner/Consultant shall be measured. In arriving at the weight of reinforcement/structural's catalogue or as established by the Owner/Consultant shall be final.
- 3.3. The theoretical quantity of reinforcing steel/structural steel required for the work will be the measured quantity of steel as described above plus 5% wastage due to cutting into pieces.
- 3.4. For the materials, which the owner has agreed to supply, the contractor shall give a reasonable notice in writing of their requirements to the owner/consultant in accordance with the agreed phased programme. Such materials shall be supplied for the purpose of the contract only. At the time of submission of bills, the contractor shall properly account for materials issued to them to the satisfaction of the owner/consultant and shall further certify that balance of material supplied are available at site.
- 3.5. All material issued to the contractor by the owner for incorporation or fixing in the works (including preparatory work) shall, on completion or on foreclosure of the works, be returned by the contractor at their expense, at the place of issue, after taking due allowance for actual consumption, and tear and waste. if the contractor is required to delivery such materials at a place other than the place of issue, they shall do so and the transportation charges from the site to such place, less incurred by the contractor had such materials been delivered at the place of issue, shall be borne by the owner.

- 3.6. In case the reinforcement steel used is less than the theoretical consumption, the recovery shall be made from the contractor at the rate of four times the rate of reinforcement steel.

4. **METHOD OF STORING THE MATERIAL**

- 4.1. The contractor shall at their own cost, provide for all necessary storage on the site in specified area for all materials such as timber, cement, lime and such other materials which are likely to deteriorate by the action of Sun, wind, rain, dampness or other natural causes due to exposure in the open in the compounds or in stores, in such a manner that all materials, tools, etc. shall be duly protected from damage, by weather or any other cause.
- 4.2. The contractor shall bear the cost of loading, transporting to site, unloading, storing under cover as required, assembling and joining the several parts together as necessary and incorporating or fixing materials in the work including all preparatory work of whatever description as may be required.
- 4.3. The Owner/Consultant officials concerned with the contract shall be entitled at all times to inspect and examine any materials intended to be used in or on the works, either on the site or at factory or workshop or other places where such materials are assembled, fabricated, manufactured or at any place where these are lying or from which these are being obtained and the contractor shall give such facilities as may be required for such inspection and examination.
- 4.4. All the materials including contractor's T&P brought by the contractor to the site shall become and remain the property of Owner and shall not be removed off the site without prior writing approval of the Owner/ Consultant. But wherever the works are finally completed and advances, if any, in respect of such materials are fully recovered, the contractor shall at their own expense forthwith remove from the site all surplus materials supplied by them and upon such removal, the same shall revert in and become the property of the contractor

PROCUREMENT OF MATERIALS AND CONSUMPTION

1. GENERAL

- 1.1.** The contractor shall at their own expenses, provide all materials required for the works. Adequate stocks of all materials required for the work are to be maintained at site. No material (unless as provided elsewhere in this document) shall be supplied by the owner.
- 1.2.** All materials to be provided by the contractor shall be in conformity with the specifications laid down in the contract and the contractor shall, if requested by the Owner/consultant furnish prior to the satisfaction of the Owner/Consultant that the materials conform to the laid down specifications.
- 1.3.** All materials required for execution of work must be got approved by the site representative before they are actually put to use. All facilities for prior inspection of materials and subsequent inspection of work by our Site Engineer must be made available.
- 1.4.** The contractor shall, at their own expenses and without delay, supply to the Owner/consultant samples of materials proposed to be used in the work. The owner/consultant shall within seven days of supply of samples, or within such further period as Owner/Consultant may require and intimate the contractor in writing, whether samples are approved by Owner/Consultant, or not. If samples are not approved, the contractor shall forth with arrange to supply, for their approval, fresh samples complying with the specification laid down in the contract.
- 1.5.** The Owner/consultant shall have full power to require removal of any or all the materials brought to site by the contractor which are not in accordance with the contract specifications or do not conform in character or quality to the samples approved Owner/Consultant. In case of default on the part of the contractor in removing rejected materials, the Owner/Consultant shall be at liberty to have them removed by other means. The owner/consultant shall have full powers to direct other proper materials to be substituted for rejected materials and in the event of the contractor refusing to comply, Owner/Consultant may cause the same to be supplied by other means. All risks and costs which may attend upon such removal and/or substitution shall be borne by the contractor.
- 1.6.** Contractor shall be responsible for procurement of all materials/equipment etc. No delay due to Non availability of any material equipment will be entertained by owner.

2. SITE LABORATORY

The contractor shall establish a site laboratory to the satisfaction for the owner/consultant. The laboratory shall have the following equipment: (1) Printed page numbered register for recording test results, (2) Vernier callipers and screw gauge, (3) Cupboard with lock & key, (4) Steel measuring tapes, (5) Spirit level, (6) Compression testing machine, cube moulds for testing concrete/RCC (suitable for RCC cubes – upto M30 Grade), setup for compression testing bricks/tiles, (7) various sieves for sieve analysis along with sieve shaker equipment complete, (8) Equipment for testing compaction of filed up soils, (9) beakers, (10) pipet, (11) Electronic Balance and (12) Litmus papers (13) slump test apparatus (14) Graduated glass cylinders for determining silt content in sand etc.

3. EQUIPMENT

The contractor shall do all the mixing of mortar and concrete in mechanical mixer and hopper. The RCC works shall be vibrated thoroughly. It is desirable that contractor maintains adequate Numbers of mixers, vibrators etc. (in working condition) to the satisfaction of owner/consultant. The work shall be done by using latest available plants and machinery (in the field of construction technology) to render quality work and complete the project within schedule time. The tentative list of equipment's proposed to be arranged by the contractor are given in the annexure. The contractor shall submit list of equipment's tools and tackles proposed to be mobilised at site for this work forming part of unpriced bids /quotations at the time of tender. In addition to this it shall be desirable to have adequate amount of scaffolding and shuttering to complete the work speedily and owner/consultants' decision so as to the quantum of these desirable/resources of the site shall be final and binding.

4. CONSUMPTION OF CEMENT AND STEEL

- 4.1.** The theoretical calculation of cement consumption for various items of work will be one the basis of statement showing quantities of cement to be used in different items of work given in CPWD schedule of rates, Delhi. Any item not found in the said schedule will be derived therefrom. Where concrete of design mix is stipulated for the RCC works, the theoretical consumption of cement shall be calculated on the basis of the design mix approve.
- 4.2.** The upper and lower limit permissible for the variation of the actual consumption of cement, after the works are completed from the theoretical quantity of cement required shall be 3% (three percent).
- 4.3.** In case of steel reinforcement, steel used in this work as per design or as authorised by the Owner/Consultant including authorised lappages, spacers, as per design or as authorised by the Owner/Consultant shall be measured.
- 4.4.** The variation limit of actual consumption of steel after works are completed from theoretical qty. of steel required shall be within + 5%.
- 4.5.** In arriving at the weight of reinforcement/structural steel used, the weight per unit length as given either in the relevant Indian Standard or as established by the Owner/Consultant shall be used. In case of any dispute the decision of the Owner/Consultant shall be final.

SPECIAL CONDITIONS

1. RATES

- 1.1 The rates shall be deemed to allow for all minor extras and constructional details which are not specifically shown on drawings or given in the specifications but are essential in the opinion of the Owner/Consultant to the execution of work to conform to good workmanship and sound engineering practice. The Owner/Consultant reserves the right to make any minor changes during the execution without any extra payment.
- 1.2 The Owner/Consultant decision to classify any item 'minor changes', 'minor extras' and 'constructional details' shall be final conclusive and binding on the contractor.
- 1.3 Rates quoted shall include for payment of royalties for obtaining moorum, sand, aggregates, stones, etc. Nothing extra shall be paid to the contractor on this account.
- 1.4 The method of measurement and payment shall be as described under various items. Where specific definitions are not given, the method described in IS code will be followed. Should there be any detail of construction or materials which has not been referred to the specification and drawings but the necessity for which may be implied or inferred therefrom, or which are usual or essential for completion of the work in the trades the same shall be deemed to be included in the rates.

2. SPECIFICATIONS

- 2.1 If specification for an item of work is not covered by CPWD/BIS specifications or Technical Specifications, the same shall be decided by the Owner/Consultant and shall be binding on the contractor.
- 2.2 The Owner/Consultant shall have the right to cause the contractor to purchase and use such materials of particular make or from a particular source which may in their opinion be necessary for proper and reasonable compliance with the specifications and execution of work.
- 2.3 (a) As and when required by the Owner/Consultant, the contractor shall provide all facilities at site or at manufacture's works or in approved laboratory for testing of materials and/or workmanship. All the expenditure in respect of this shall be borne by the contractor. The contractor shall, when required to do so by the Owner/Consultant, confirm that the materials have been tested in accordance with requirements of the specifications.

(b) Neither the omission by the Owner/Consultant to test the materials nor the production of manufacturer(s) certificate, etc. shall affect the right of the Owner/Consultant to reject, after delivery, the materials found not in accordance with the specifications.

3. GATE PASSES

- 3.1 All tools and plant and materials shall be brought by the contractor to the works site through a covering note to be submitted in 3 copies. One copy of the covering note will be delivered to the security staff and one copy to the Owner/Consultant. The third copy shall be retained by the

contractor. The contractor shall follow all rules and regulations for entry/exit of their men and materials in/from project site as framed by Owner/Consultant.

4. CONSTRUCTION SCHEDULE

- 4.1 If at any time, the Owner/Consultant is of opinion that the contractor has fallen behind the approved construction schedule, the Owner/Consultant may, without any cost to Owner/Consultant, require the contractor to take such steps as may be necessary to improve their progress, especially require them to employ overtime operations, increase the number of shifts, work on holidays and Sundays or increase the capacity of their construction plant and equipment and require them to submit evidence demonstrating the manner in which the contractor proposes to comply with the construction schedule. Failure of the contractor to comply with the above will be considered a failure to execute the work with due diligence.

5. CONTRACTOR TO BE LIABLE FOR ALL TAXES ETC.

- 5.1 The rates quoted in the tender shall be inclusive of sales taxes or any other taxes, toll, customs duty of any kind, fees, octroi, royalty, etc., in respect of the contract and the rates shall be firm (with exception in case of works where escalation clause is applicable as per tender provision) irrespective of any variation the prevailing rates of taxes, duties, levies, octroi etc., The contractor shall indemnify Owner/Consultant against levy of any taxes, etc., in regard to this contract and in the event Owner/Consultant being assessed for any of the said levy or taxes, Owner/Consultant shall have the right to recover the total amount so assessed from the contractor's dues and the contractor shall also be responsible for all costs or expenses that may be incurred by Owner/Consultant in connection with any proceeding or litigation in respect of the same.

6. ISSUE OF WORKING DRAWINGS

- 6.1 Approved working drawings marked "Good for execution/construction" shall be issued by Owner/Consultant to the contractor progressively during the pendency of the contract. Sufficient quantum of workings drawings will be issued at the beginning. The contractor on this account shall not be entitled to put forth any claim whatsoever.

7. COST OF TRANSPORT OF MATERIALS ISSUED BY OWNER

- 7.1 Cost of transport, loading, unloading etc. from Owner's stores to work site etc., will be on contractor's account.

8. ROLE OF OWNER/CONSULTANT

- 8.1 The Owner/Consultant shall have authority to stop the work, whenever such stoppage may become necessary to ensure the proper execution of the contract. They shall also have authority to inspect and reject all work and materials which do not conform to specifications, to direct the application of contractor's forces to any portion of the work, as in their judgment is required, and to order the said force increased or diminished and to decide questions which arise in the execution of the work.
- 8.2 The Owner/Consultant reserves the right to suspend the work or part thereof at any time and no claim whatsoever on this account shall be entertained. In case of any clarification the contractor may appeal to the Owner whose decision shall be final and binding thereupon.

- 8.3 The above inspection shall, however, not relieve the contractor of their responsibilities in regard to defective materials or workmanship and the necessity for rectifying or replacing the same.
- 8.4 The judgment of Owner/Consultant for determining the category of an item not mentioned in the schedule shall be final.
- 8.5 The Contractor shall submit Specifications and Drawings showing the proposed Temporary Works to the Consultant, who shall approve them if they comply with the Specifications and Drawings. The Contractor shall be responsible for design of Temporary Works. The Consultant's approval shall not alter the Contractor's responsibility for design of the Temporary Works.
- 8.6 All Drawings prepared by the Contractor for the execution of the temporary or permanent Works, are subject to prior approval by the Consultant before their use.

9. SERVICE OF NOTICES OF CONTRACT

- 9.1 The contractor shall furnish to the Owner/Consultant the name, designation and address of their authorised Agent for the purpose of service of notice(s) regarding all complaints, communications and references and shall be deemed to have been duly given to the contractor if delivered to the contractor or their authorised agent or left at or posted to the address so given and shall be deemed to have reached such address in the ordinary course of post or on the day on which they were so delivered or left. In the case of contract by partners, any change in the constitution of the firm shall be forthwith informed by the contractor to the Owner/ Consultant.

10. CONTRACTOR'S GUARANTEE

- 10.1 The contractor agrees to give the guarantee of their works in the following manner which shall remain valid till the validity of performance guarantee.
- i) All materials incorporated in the work shall be new and both workmanship and materials shall be of good quality.
 - ii) Should, at a subsequent date, any inside honeycomb/hollowness be detected within a concrete member, they shall investigate other nearby sections for similar occurrence and shall rectify all these members by Pressure grouting at their own cost and as per direction of the Owner/ Consultant.
 - iii) Should, any element of the structure be detected afterwards not exactly tallying with the working drawing, they shall re-do the element at their own cost and as per instruction of the Owner/Consultant.
 - iv) Should, at a subsequent date, any materials or fittings or workmanship or any element of the structure be detected as of sub-standard quality they shall either remove the same and shall re-do at their own cost or shall accept an equitable deduction in the contract price should the Owner/ Consultant deemed it inexpedient to correct the work.
 - v) All liquid retaining concrete structures shall be demonstrated about their efficiency or water tightness by filling the said structures with water and retaining it for 72 hours at their own cost. Should the result be found unsatisfactory they shall rectify the structures by pressure grouting at their own cost and as per direction of the Owner/Consultant.

- vi) Should, at a subsequent date, the basement wall/floor been noted seeping/leaking they shall rectify the same by pressure grouting at their own cost and as per direction of the Owner/Consultant.

11. CONTRACTOR FULLY RESPONSIBLE FOR LAYOUT OF WORK

The contractor shall remain fully responsible to provide detailed layout of different structures according to the coordinates and reduced levels incorporated in the working drawings by taking reference from the Bench Marks of both the coordinates and the reduced levels which shall be given at a convenient place in the works site by Owner/ Consultant. The contractor shall provide necessary protection to keep the Bench Marks Undisturbed throughout the pendency of the contract. The accuracy of detailed layout of any element of a structure shall remain exclusively with the contractor. The contractor shall have to maintain a number of after beams, theodolites and levels instruments etc. in good working conditions at site for the above purpose throughout the pendency of the contract, and shall make them available to Owner/Consultant for their use.

12. NOTHING EXTRA FOR ADVERSE SUB-SOIL CONDITION

- 12.1 There may be variation in nature of sub-soil both horizontally and vertically. The contractor shall have to take necessary precaution during excavation against any happening like collapsing of sides etc. Any slip or fall in excavation shall have to be cleared by the contractor at their own cost. In case of excessive heaving, it shall have to be cut and refilled with lean concrete by the contractor at their own cost. The contractor shall have to adopt underwater work in case of occurrence of piping/quick conditions without any cost to Owner/Consultant.

13. R.C.C. ELEMENT SHALL BE INTEGRAL FINISHED

- 13.1 For all RCC element, both underground and above ground, only new plywood and steel shuttering shall be used to produce the concrete surface reasonably plain and smooth which will be integrally finished surface. Any little unevenness shall be made good by rubbing with carborandum stones only. Unless otherwise mentioned plastering will not be allowed to manipulate and make the surface plain and smooth. If the surfaces after stripping off the shuttering are found to be contrary to the above conditions then the contractor shall have to dismantle the member and re-do the same to attain the aforesaid surfaces at their own cost.

14. FABRICATION DRAWINGS FOR STRUCTURALS

- 14.1 a) The CONTRACTOR shall prepare and submit fabrication drawings in triplicate for preliminary approval of CONSULTANT. Fabrication drawings shall be based on design drawings issued by CONSULTANT. One copy of this preliminary drawings duly corrected and signed wherever necessary shall be returned to CONTRACTOR for incorporation of the corrections. After incorporating the corrections, the CONTRACTOR shall submit in 12 (twelve) copies of the drawings for final approval. Each drawing shall be accompanied by:-

- i) Bill of materials giving all details including sizes, numbers and weights.
- ii) Four copies of design calculations for the design of joints. All the joints shall be designed for full strength of members; unless otherwise specified.

Nothing extra shall be payable to contractor for preparation of fabrication drawings, material lists design calculation etc.

Approval of fabrication drawings, however, will not absolve the CONTRACTOR of their responsibility for the safety and correctness of the fabrication details.

- iii) In case the CONTRACTOR wants to get the fabrication drawings prepared from other agencies, Owner/Consultant's approval for appointing such agencies shall be obtained by CONTRACTOR before appointing the agency. For this, CONTRACTOR must submit the credentials of the agency alongwith the request for approval.

15. **CONTRACTOR SHALL SUBMIT BAR BENDING SCHEDULE**

- 15.1 The contractor shall prepare bar bending schedule from the detailed RCC working drawings supplied by Owner/Consultant for execution of work and nothing shall be paid on this account. Four copies of such bar bending schedule shall be made available to the Owner/Consultant for their approval and effecting payment thereunder.

16. **CONTRACTOR'S RESPONSIBILITY FOR THE MANNER OF EXECUTION OF WORK**

- 16.1 The contractor shall be responsible for the manner and the method of executing the work. The work shall be subject to the approval of Owner/ Consultant from time to time for purposes of determination of the question whether the work is executed by the contractor in accordance with the contract.

17. **NO WORK SHALL BE UNDERTAKEN WITHOUT APPROVED WORKING DRAWINGS**

No work shall be undertaken at Site by the contractor until detailed approved working drawings marked "Good for execution/construction" for the same is issued by Owner/ Consultant. Any work done without the aforesaid working drawing shall be at the contractor's own risk and costs.

18. **CONTRACTOR SHALL KEEP FOUNDATION PITS/TRENCHES DRY**

- 18.1 The contractor, during the pendency of contract, shall keep the condition pits, trenches, which are not yet back filled due to technical reasons, dry and shall Bail out/Pump all accumulation at their

own cost for the safety of the structure/element. During pumping, the contractor shall have to ensure that 'Loss of Ground' does not occur. Other approved methods shall be taken by the contractor to avoid 'Loss of Ground' if occurred, at their own cost.

19. NOTHING EXTRA FOR INTRICATE CONCRETE SHUTTERING OR REINFORCEMENT WORK

- 19.1 Nothing extra shall be paid for any intricate concrete, shuttering or reinforcement work for foundations of equipment and machinery and for other foundation/superstructure works or for any delay inherent in concreting in small and thin sections in concrete or RCC works etc.

20. NOTHING EXTRA FOR REBATING ETC.

- 20.1 Nothing extra shall be paid in concrete/RCC works for all rebating, chamfering, grooving, sinking, throating weathering, molding, etc. to accord with the details shown on the working drawings.

21. CONSTRUCTION JOINTS

- 21.1 In case of execution of massive concrete elements both in foundation and in superstructure and in some other locations as would be permitted except where specified in the working drawings, the work shall be carried out in one single operation without any break in concreting within time limit that would be specified by the Owner/Consultant without any additional cost to Owner/Consultant.
- 21.2 All specified construction joints, either horizontal or vertical, in any element of concrete member shall be provided with shear keys of such dimensions as would be determined by the Owner/Consultant. Before adopting the next operation for the other half of the element these shear keys alongwith the entire surface of the joint shall be roughened and deepened to above 20 mm by chipping, washing and cleaning thoroughly. The contractor shall provide cement slurry in sufficient quantity over the cleaned surface for proper bond as per the direction of Owner/Consultant. The contractor shall not be entitled to any extra/payment; on this account.

22. SUBMISSION OF BILL

Contractor is to submit the bills and record of measurements in three copies on approved proforma of Owner for works executed by them.

23. PROVISION FOR MULTIFARIOUS CHECKING OF WORK

- 23.1 Before commencement of the actual concreting operation the position and layout of foundations, pedestals, inserts, pockets, recess, reinforcement and form work shall be checked repeatedly by Owner/Consultant. No claim whatsoever shall be entertained on this account. The level of foundations shall be accurately maintained as shown in the drawings or as directed by the Owner/Consultant. No padding, plastering or chipping shall be allowed for achieving the results.

24. NO COMPENSATION FOR ALTERATION IN OR RESTRICTION OF WORK TO BE CARRIED OUT

- 24.1 If at any time after the commencement of the work, Owner/Consultant shall, for any reason whatsoever, not require the whole work thereof as specified in the tender to be carried out, the Owner/Consultant shall give notice in writing of the fact to the contractor who shall have no claim of any payment or compensation whatsoever on account of any profit or advantage which they might have derived from the execution of work in full, but which they did not derive in consequence of the amount of the work not having been carried out, neither shall the contractor have any claim for compensation by reasons of any alternations having been made in original specifications, drawings and instructions which shall involve any curtailment of the work as originally contemplated.

25. ACTION AND COMPENSATION PAYABLE IN CASE OF BAD WORK

- 25.1 If it shall appear to the Owner/Consultant or their representative, that any work has been executed with unsound, imperfect or unskillful workmanship or with materials of any inferior description or that any materials or articles provided by them for the execution of the work are unsound or of a quality inferior to that contracted for, or otherwise not in accordance with the contract, the contractor shall, on demand in writing from the Owner/Consultant specifying the work/materials/articles complained, notwithstanding that the same may have been inadvertently passed, certified and paid for, forthwith rectify, or remove and reconstruct the work so specified in whole or in part, as the case may require, or as the case may be, remove other unsuitable materials or articles so specified within a period specified by the Owner/Consultant at their own cost.

26. CLEARING, FILLING AND LEVELING OF SITE

- 26.1 The site shown on the layout plan shall be cleared by the contractor of all obstructions, loose stones, materials, rubbish of all kinds of bushes, trees, grass as well as brush wood. All holes/hollow, whether originally existing or produced by removal of loose stones or brush wood, shall be carefully filled up with earth, well rammed and leveled off as directed by the Owner/Consultant. The contractor will not be entitled to any payment in their regard.

27. CONTRACTOR TO COMPLY ALL LAWS

- 27.1 The contract shall be governed by the law in force in the Republic of India.
- 27.2 The contractor has to follow the rules of commencement letter issued by Government Authority.
28. The contractor shall comply with all laws etc. The contractor shall be responsible to secure compliance with the Central and States Laws as well as the Rules, Regulations, by-laws and orders of the legal authorities and statutory bodies which are in force or as may be in force from time to time. They shall give to the Municipal Corporation Committees, police and other relevant

authorities all such notices, etc. as may be required by law and obtain all requisite license for temporary constructions, enclosures, etc. and pay all fees, taxes and such other dues or charges which may be leviable on account of any of their operations in executing the works under this contract. Owner/Consultant shall not pay anything extra to the contractor on this account. The contractor shall also make good at their own cost, any damage done by them to any adjoining property, during execution of work.

29. The contractor shall use the materials only after the approval of Owner/ Consultant, before incorporation of the same in the works.

30. COMPLIANCE OF ENTIRE PROVISIONS IS OBLIGATORY TO CONTRACTOR

It shall always prevail, unless otherwise specifically stated, that the entire provisions of the Tender Document have been accepted for compliance by the contractor without any reservation.

31. GENERAL

- 31.1 The location and general information regarding site on which the proposed work is to be executed is furnished in Attachment IV hereto.
- 31.2 Contractor shall acquaint himself with access to site, availability of local facilities such as railway siding, transport facilities, materials and labour and shall provide suitable allowances in their Bid, Contractor's quoted price being firm, it should take into account all expenses likely to arise in this regard.
- 31.3 Contractor shall be deemed to have visited site and familiarised himself thoroughly with site conditions before submitting their Bid. Non-familiarity with site conditions will not be considered a reason either for extra claims or for not carrying out work in strict conformity with drawings and specifications.
- 31.4 The Contractor shall have to submit the NOC for Fire Fighting System, Lift Licenses, Any Type of Electrical Related NOC, including all necessary Licenses from Competent Authority at the Building Use (BU) Process or time of Handover of the completed building.
- 31.5 All competent authority works like water connection, drainage connection etc. falls under scope of contractor

32. WORK AND WORKMANSHIP GUARANTEE

- 32.1 Contractor shall make arrangements to provide at no extra charge all temporary approaches to and within the site, after obtaining prior approval of Owner/Consultant of the layout of such approaches.
- 32.2 To determine the acceptable standard of workmanship, Owner/Consultant may order Contractor to execute certain portions of work and services such as wall, flooring, joinery, finishes, roads and the

like under the close supervision of Owner/Consultant. On approval, these items shall be labeled as guiding samples and work shall be executed to conform to these samples. These samples shall be prepared at the cost of contractor.

32.3 Workmanship shall be of best possible quality and all the work shall be carried out by skilled workmen except for those which normally require unskilled persons. If the laws of local government, municipal or other authorities require employment of licensed or registered workmen of various trades, contractor shall arrange to have the work done by such registered or licensed persons. In case of manufactured materials being used in work, contractor shall arrange to have at site at their own cost, the services of the supervisors of the respective manufacturers to ensure that work is performed in accordance with Manufacturer's specifications.

32.4 Workmanship shall be in accordance with the specifications, standards and codes which are part of this tender as well as the established engineering practices for this type of work. For any portion of work executed by Contractor and considered defective by Owner/Consultant, the contractor shall have to take necessary remedial measures, to the complete satisfaction of Owner/Consultant, to make the defects good at their own cost without any liability to Owner/Consultant.

The contractor shall be responsible for the proper workmanship and shall not be relieved of their obligation in this regard just because no objection was raised by Owner/ Consultant during the progress of work. The workmanship guarantee period will be **(a)** 12 months from the date of completion for civil and structural work. If any defects are found due to bad workmanship during this period, the contractor shall undertake to rectify the same at their cost, most expeditiously. The workmanship guarantee for rectified portion of work shall commence from the date of rectification for a subsequent period of 12 months or the balance period as stated above whichever is later. The decision of Owner/Consultant regarding bad workmanship shall be final binding and conclusive.

The contractor shall be required to submit the performance guarantee accordingly.

34. PRIORITY OF DOCUMENTS

34.1 The following is the order of priority in descending order. A higher priority document shall take precedence over a lower priority document in case of any conflict. However, this does not imply that the lower priority documents are unimportant or may be disregarded:-

1. Schedule of Rates/ BOQ
2. Drawings
3. Scope of work & Technical Specifications
4. Special condition of contract
5. Issue of Materials
6. Terms of Payment
7. General Conditions of Contract
8. Site working and safety conditions
9. Standards (Standards here shall mean National/ International Standards & specifications).

35. WEATHER CONDITIONS

- 35.1 Owner/Consultant may order contractor to suspend any work which in the opinion of Owner/Consultant may be subject to damage by prevailing weather conditions. No claim whatsoever on this account shall be entertained.
- Contractor will get the Approval from Owner/Consultant before appointing any specialized agency for their Work. These will amongst others include works of Air-conditioning, Plumbing, etc.

TERMS OF PAYMENT

1.0 Financial Guarantee for performance

The contractor shall provide financial guarantee within 30 days of award of work for due and faithful performance of the contract as per Article 6 of General Conditions of contract.

Terms of Payment

Following terms of payment shall be applicable-

1.01 Mobilisation Advance

Interest free mobilisation advance, not exceeding 10% of contract value shall be payable on submission of Bank Guarantee for the equivalent amount from Schedule Bank in the prescribed proforma, subject to furnishing the performance bank guarantee. Recovery of this advance shall be made @ 15% from each bill so that full mobilisation advance is recovered by the time 75% work is done. Mobilisation Advance shall be paid only on acceptance of LOI/Work Order and establishment of site office by contractor. The payment of mobilisation advance shall be released with certification by consultant/owner.

1.02 Running on Account Payment

95% against the value of actual work done shall be paid against running bills submitted by contractor duly certified by Owner/Consultant after recovery of the following payments-

- a) Value of chargeable materials issued by Owner/Consultant.
- b) Mobilisation advance as indicated above.
- c) Statutory deductions like income Tax, sales tax on works contract etc. as applicable.
- d) Any other recovery if becomes due.

Balance 5% shall be treated as retention money and shall be released at the time of settlement of final bill.

Payment shall not be released against Ist R/A bill until submission of following documents by contractor to the indenting department-

- 1) Financial Guarantee for Performance
- 2) Labour Licence (as per statutory requirements)
- 3) EPF Code Registration number with RPFC/ARPF
- 4) Insurance Contractor All Risk (CAR) Policy
- 5) Workmen compensation policy

The above 95% can be sub-divided as follows:

1.02.1 For civil works

95% shall be released on actual work done itemwise.

1.02.2 For structural work

- a) 75% on completion of fabrication and shop painting

- b) 10% on completion of erection and final alignment
 - c) 10% on completion of final painting, checking and job found acceptable by Owner/Consultants.
- 1.02.3 Payment in RA bills shall be based on quantity of work executed at site (as per the item of work) & verified by KRIBHCO/Consultant as per the item rate in work orders. KRIBHCO/Consultant is authorised to allow part rate/reduced rate for any item of work. The engineer in charge KRIBHCO/Consultant shall specify the reason for the part rate payment in the RA bill.
- 1.02.4 Payment has been made in RA bill for any item of work but later on some defect is noticed KRIBHCO/Consultant is authorised to disallow the payment in successive bill till rectification of the work.
- 1.02.5 75% of the net payable running "On Account" payment shall be released within 10 days of the certification by Owner/Consultant.
Balance 20% shall be paid within 21 days of certification by Owner/Consultant.
- 1.02.6 For MSME registered firms, payment shall be made within 45 days of submission of invoice along with supporting documents.

1.03 Balance 5% (Retention Money) shall be released along with final bill subject to the following :

All the valid tenders considered in evaluation at the time of award of work shall be re-evaluated at the respective quoted rates with a view to assess whether the L-1 contractor's price of completed works continues to be the lowest. In case, after such re-evaluation, the final contract value is not the lowest, the contractor shall reimburse to the owner the difference in the amount between the re-evaluated tender and the lowest tendered amount. This difference of amount shall be adjusted from their final bill.

However, if the amount recoverable exceeds the amount payable in final bill, the balance amount shall be recovered by the Owner, from the performance bank guarantee/any other moneys or bank guarantees available with the owner for any other job being done by the contractor. The contractor shall restore the performance guarantee to the requisite value to the extent of 10% of contract price in such case where recovery is required to be effected by the encashment of full amount or a part of the performance bank guarantee as soon as the contractor receives such intimation from the owner/consultant.

1.04 The running on A/c Bills shall be submitted on monthly basis.

1.05 The final bill complete in all respect shall be submitted by the contractor within three months of certified completion of work. The bill should be accompanied with the following documents.

1. Job completion certificate.
2. No claim certificate on Owner's prescribed proforma.
3. Site clearance certificate.
4. Performance guarantee duly amended to cover certified maintenance period.

5. Material reconciliation statement (statement of material issued by Owner or consultant to be got certified from stores dept.).
6. Indemnity certificate towards labour payment and all statutory payments.

No claim shall be entertained after receipt of final bill. Settlement of final bill shall be made subject to settlement of all disputes and furnishing of all required documents/clarifications and grant of extension of time, if any, by Owner's competent authority.

1.06 Secured Advance

Secured advance payment against materials brought at site for incorporation into the work (except on perishable materials i.e. sand, PVC material, china sanitary wares and glass) shall be considered to the extent of 75% of cost of materials subject to reasonability of price. For purpose of advance, quantity brought at site shall be considered but limited to 90% of assessed quantity. The contractor shall be required to submit the bill for secured advance payment alongwith photo-copies of vouchers towards cost of materials and proof of bringing the materials at site (if applicable). Contractor shall also be required to submit indemnity bond on Non-judicial stamp paper of appropriate value. Recovery of the secured advance shall be effected from running account bill, on consumption basis of that material in works.

2.0 Price

The prices shall be firm during the entire contract period including all extensions granted on whatsoever ground may be.

3.0 Predetermined agreed damages for delay

For late completion of the works, the owner shall recover compensation for delay from contractors bills as per Article 25 of General Condition of Contract.

4.0 Provision of Extra/Additional Items

If the altered/additional work required to be executed as per Owner's/Consultant's requirement for which there are no established rates in schedule of rates, the same shall be payable as per provision stated hereunder-

- a) As far as possible the rates for such items shall be derived from agreed schedule of rates on prorata basis.
- b) If direct working out is not possible, the contractor shall be paid on the basis as under:
Reasonable cost of materials duly supported by vouchers etc. submitted by the contractor and verified by Engineer plus reasonable cost of labour based on prevailing rates, plus 15% on cost of material and labour to cover contractor's profit, supervision, overheads, establishments, plants machinery etc.

Owner's decision regarding reasonable labour cost and reasonable material consumption/and cost shall be final and binding on contractor.

PREAMBLE TO SCHEDULE OF RATES

1. The tender drawings are intended mainly to give an indication of the probable type of construction. The successful tenderers will however, be required to execute the work as per detailed approved drawings issued to them from time to time. Steel structures can be changed to RCC or vice versa Owner/Consultant reserves the right to add/delete any of the building works or item or work mentioned in the tender during the currency of the contract.
2. The tenderers shall note that the quantities of the different items as given in the schedule of quantities are tentative based on tentative drawings and are subject to variation and they shall not be entitled to claim any higher rate or compensation on this account. Owner does not guarantee work under each item of schedule of rates.
3. The successful tenderers shall be required to leave pockets, cut outs, and holes in slab, beams, walls, foundations of equipment's and machinery without any additional charges.
4. The successful tenderers shall be required to supply detail fabrication and erection drawing in sequence of erection on the basis of detailed design drawings supplied by Consultant/Owner from time to time showing clearly all shop and site joints and connections with erection marks on each loose part. Nothing shall be paid for this activity.

The quantities and items of work given in the Schedule of Rates are tentative and approximate. The Owner reserves the right to order variation of works during the currency of the Contract upto plus or minus 20% (Twenty percent) of its original Contract value. The variation of work may be that the quantity of individual item of work may vary upto any extent and/or any item may be deleted altogether, and/or any extra item may be added etc. The Contractor shall not be entitled to any claim whatsoever on account of any variation in the quantities and/or omission/deletion of items from/to the Schedule of Rates as long as the final value of work is within the stipulated variation of plus or minus 20% (twenty percent) of the original contract value.

5. The quantities given in the schedule of quantities are approximate and are given only for the guidance for quoting rates. Payments on bills shall, however, be made on actual measurement of quantities of work done as per approved drawings. Unless otherwise specified, measurement of quantities shall be taken as per norms pertaining to CPWD - DSR 2023/or latest edition, Indian Standards IS:1200. Nothing extra shall be paid to the contractor over the quoted rates if there is any increase or decrease in the quantities and such variation in quantities, shall not however, vitiate the contract in any way whatsoever.
6. The rates to be inserted in the “Schedule of Rates” are to be fully inclusive of the value of the work described under several items including all costs and expenses which may be required in and for the construction of the work described together with all taxes, general risks, liabilities

and obligations (e.g. temporary buildings, fencing, watching, lighting, insurance, labour regulations, indemnity, maintenance and the like). The prices are to be inclusive of all labour, materials, tools, plants, equipments, hoists, tackles, scaffoldings, and the sundries etc. as may be necessary for the full and entire completion of the work in all respects.

7. The quoted rates shall be applicable for all floors, heights, depths etc. except otherwise stated clearly in the description of items and nothing extra shall be paid to the contractor on this account.

8. Tests

According to the nature and importance of works owner/consultant, shall demand the conduct of tests on construction materials etc. in which case the contractor shall get the same done at their own cost in a laboratory to be approved by owner.

9. Nothing extra shall be paid in the unit rate of the structural steel works, if built up sections/compound sections have to be used.
10. Prior approval of Owner/Consultant shall have to be obtained for changing the sections due to non availability of certain sections and using built up section/compound sections and nothing extra shall be paid for on this account.
11. No compensation for any damage done by rain or traffic during the execution of the work shall be made by Owner/Consultant.
12. The term “Design and Drawings” mentioned in the description of items in the “Schedule of Rates” means the detailed approved design drawings marked “Good for Construction”.
13. The work “As described”, “As shown”, “As directed”, or “As approved”, “As complete”, “As mentioned” in the description of items shall mean as directed in design or detailed drawings and as directed by Owner/ Consultant.
14. For details of works, materials and workmanship attention is invited to schedule of quantities, scope drawings, special conditions. Materials and job specification preamble to the schedule of quantities and the tenderers must quote the rates keeping in full view the requirement of the said documents.
15. The portion which is under “HOLD” shown in the approved drawing or the portion which would be brought under “HOLD” during execution on account of Coordinating different activities of other working agencies shall be taken up by the contractor to execute only after the said “HOLD” is withdrawn. The contractor on this account shall not be entitled to claim for any compensation.
16. The work shall have to be so arranged, planned and programmed as to complete all work within the schedule time. Tenderer shall have to strictly adhere to time schedule.

17. Nothing shall be paid for any intricate shuttering or reinforcement work for foundations of equipment and machinery and other superstructure work or any delays in concreting in small and thin sections in PCC or RCC works etc.
18. Nothing shall be paid in concrete/RCC work for all rebating chamfering, grooving, sinking, throating, weathering, moulding etc. in accordance with details shown in the drawings.
19. The contractor shall offer all reasonable facilities and cooperation to the various other agencies and contractors for services not included in this contract, who may be working on the site simultaneously so that the entire work can proceed smoothly and simultaneously to a successful completion. The tenderer must take all the aforesaid factors into consideration while quoting their rates, for no charge shall be allowed on any ground out of or relating to the aforesaid factors.
20. All tools & tackles, inspection instruments, machinery, equipment's and transports etc. required in connection with this work shall be the contractor's responsibility.
21. The following notations have been used throughout the Schedule of Rates and materials and job specifications.

-	Cu.M.	Cubic Metre
-	Sq.M.	Squate Metre
-	M.	Metre
-	Rmt	Running Metres
-	No./Nos.	Number/Numbers
-	Tonne	Metric Tonne
-	Kg	Kilo Gram
-	RCC	Reinforcement Cement Concrete
-	PCC	Plain Cement Concrete

22. Definition of Plinth (Level)

The portion of the structure between the surface of the surrounding ground and the surface of the floor immediately above the ground (this shall generally be higher than the surrounding ground level) for instance as per design/drawing/site condition.

23. The design mixes of all controlled concrete of various grades shall be established by the contractor on the basis of weigh batching, at the beginning of the work. The design mixes derived by weight shall however, be converted into equivalent volumetric mixes for the purpose of execution giving proper allowance for bulkage of sand. Consultant/KRIBHCO may

permit use of nominal mixes for all controlled concrete in absence of approved for design mix/approved design mix without any additional claim/payment on this account.

24. Provision of this preamble shall prevail over those in the general directions and conditions of contract.

PART-B: SCOPE OF WORK AND TECHNICAL CONDITIONS

- 1.0 Scope of work :** As defined in BOQ
- 2.0 Obligation of Owner/Consultant :** The owner shall handover the site in workable condition.
- 3.0 Obligation and Responsibility of contractor :** As per terms and conditions of the document.
- 4.0 Technical Specifications for various items of work:** As per various annexures attached herein.

TECHNICAL SPECIFICATIONS FOR CIVIL & STRUCTURAL WORK WORK

GENERAL

This specification is for work to be done, item to the supplied and materials to be used in the works as shown and defined the drawings and described herein, all under the supervision and to the satisfaction of the **KRIBHCO / Consultant**.

1.0 MATERIAL AND WORKMANSHIP

- 1.01 All Materials brought on site of works and meant to be used in the same shall be the best of their respective kinds and to the approval to the **KRIBHCO / Consultant**.
- 1.02 Samples of all materials shall be got approved by the **KRIBHCO / Consultant** and shall be deposited with them before the order for the material is placed with the suppliers. The material brought on the works shall confirm in every respective with approved samples.
- 1.03 The contractors shall check each fresh consignment of materials as it is brought on the site of the works, to see that they confirm in all respects to the satisfactions and/or samples approved by the Architects.
- 1.04 The **KRIBHCO / Consultant** will have the option to have any of, the materials tested to find whether they are in accordance with the satisfaction and the contractor will bear all expenses in that connection. All bills, vouchers and test certificates which, in the opinion of the **KRIBHCO / Consultant** or the representative, as necessary to convince them as to the quality of the materials of their suitability shall be produced for their inspection on requisition Testing charges, if any shall have to be borne by the contractor.
- 1.05 Any material that has not been found to confirm to the specification will be rejected forthwith and shall be removed from the site by the contractors **within 48 hours at** their own cost.
- 1.06 The Architect/Employer shall have power to cause the contractors to purchase and use such materials, from any particular source, as may in their opinion be necessary for the proper execution of the work.
- 1.07 Workmanship: All works shall be to level plumb and square comers, edges and arises in all cases shall be unbroken and finished neat.
- 1.08 Skilled supervisors for the respective trades shall be employed by the contractors to check to the work in progress and to instruct and extract the right kind of workmanship from the men employed on the works. Instructions given to such supervisors by the architect or their representative shall be carried out with a view to get the work executed in a neat and workman like manner according to this specification.
- 1.09 The **KRIBHCO / Consultant** may order the inspection any finished work as they chooses and, in a manner, they decides, and the contractors shall bear all expenses in the connection. If the results of such inspection prove that the workmanship is not of the standard required,

the work will be rejected and removed forthwith and they replaced by works of the accepted standard of quality.

- 1.10 The Interior Contractor has to Dismantle & clear all the dismantled entities including brickwork, Wooden partitions, Doors windows, flooring, tiling, electrical conduits, Fixtures, Wires, switches, plumbing, HVAC and drainage lines (to be done carefully, so as not to damage the attached services and plug them appropriately), return and stack carefully the items to be retained by KRIBHCO Management as and where instructed. No separate rates are chargeable by any vendor for any kind of Dismantling and carting of debris at any stage of work.
- 1.11 Contractor has to mark-out the complete layout considering proper line level and plumb with respect to the probable surface finishing which should also be in line, Plumb and Right angles. Only after marking & bench marking, civil work walls and the partition frames be fixed. This is to avoid any misalignment and ensure perfect level and Right-angles for all paneling and partition surfaces. **Any misalignments discovered later will not be acceptable and would be required to be corrected at Vendors/Contractors expense.**
- 1.12 Base rate shall be arrived at after considering discount and Taxes. The rate should be ex showroom. Base rates shall not include any transportation, loading unloading, delivery, handling charges, wastage & delivery at site.
- 1.13 All items to have sample/Mock-up/Shop Drawing or all approvals prior to commencement of mass production or fabrication.
- 1.14 Contractor to form openings on partition for services and to seal gaps using silicon sealant and factor in for the cost in the item rate. No extra payment will be made on this account.
- 1.15 For measurements of False ceiling all measurements will be done on square feet of surface basis and no running feet measurement will be accounted for except for measurement of a cove. The cove length will include the front & back both vertical surfaces, to be counted in one measurement irrespective of the size/height (length of front surface to be counted for measurement)
- 1.16 The Drawings do not purport to show all objects or conditions existing at the site. Before commencing the Work, the Interior Contractor/Vendor must verify at the site all conditions and all objects to be preserved or accommodated
- 1.17 The Drawings show the location of all fixtures and equipment included in the Work and are intended to depict the general intent of the Work in scope, layout and quality of workmanship. The drawings are not intended to show in minute detail every and all accessories intended for the purpose of execution of the Work, but it is understood that such details are a part of this Work.
- 1.18 The Contractor shall provide, free of cost, all equipment, instruments, labour and all other allied assistance required by the Architect/Consultant or their representatives for measurement and testing of the works.

2.0 HARDWARE & METALS:

- 2.01 Tables side units back unit's consoles or other articles as per schedule of quantities shall be deemed to be inclusive of all the hardware required e.g., locks, sliding channels handles / knobs, bolts screws PVC buffers for the legs of sofas chairs tables etc. as per instructions of engineer in charge.
- 2.02 Screws are to match the finish of the articles to be fixed and to be round or flat headed or counter sunk as required.
- Contractor to use the following screws unless otherwise specified.
- For partition frame work: 16/8 no. sheet metal screw 16mm in length.
 - For partition anchoring on floor & true ceiling: 75/10 no. sheet metal screw 75mm in length.
 - For 6mm thick ply paneling 19/6 no. sheet metal flat head screw,
 - For 12mm thick ply paneling 25/8 no. sheet metal flat head screw,
 - For 19mm thick ply paneling 32/8 no. sheet metal screw.
 - For fixing door hinges: 30/8 no. Philip head SS screw.
 - For fixing drawer channel: For bottom channel - 19/6 no.
 - For side - 9.5/6 no. sheet metal screw.
 - For fixing metabox drawer channel: 9.5/6 no. sheet metal screw.
 - For fixing auto closing hinge: 16/6 round Philip head screw. Along With pvc dowel screw insert of 8mm
- 2.03 The contractor should cover up and protect the brass and bronze surfaces with a thick grease or other suitable protective materials renew as necessary and subsequently clean off and clear away join completion.
- 2.04 Aluminum and stainless steel shall be of approved manufacturer and suitable for its particular application. Generally, surface of aluminum shall have an iodized finish or powder coated finish and both shall comply with the samples approved by the Architects/Employer All stainless-steel sheets shall be 304 S.S. JSL or equivalent with gauge as specified but not thinner than 16 gauge.
- 2.05 All steel, brass, bronze, aluminum and stainless-steel articles shall be subjected to a reasonable test for strength if so, required by the **KRIBHCO / Consultant** at the contractor's expense.
- 2.06 All branching and welding are to be executed in a clean and smooth manner rubbed down and left in the flattest and tidiest way, particularly where exposed.
- 2.07 Chromium plating shall be in accordance with IS standard or as per approved specification for normal outdoor conditions and shall be on a base material of copper brass or as specified.
- 2.08 Where the use of spring loaded auto closing hinges is specified, the same shall be installed strictly as per manufacturer's guidelines and relevant tools & fixtures like dowel inserts etc. required for the same.

3.0 WOOD WORK

3.1 MATERIAL:

3.1.1 WOOD:

- A. Generally, wood for all Architectural woodwork shall be steam beech/maple wood/teak.
- B. The moisture content of wood shall be in conformance to IS: 287 and shall generally be between 12% to 14%.
- C.
 - 1. All wood shall be heartwood from mature trees, of the best grade, with minimum sapwood, free of defects, selected for good finished appearance.
 - 2. All grades of wood with the following defects shall be prohibited for us:
 - a) Timber with loose grain, splits, compression wood in coniferous timber, heartwood-rot and sap-rot and warps.
 - b) Worm holes and pitch pockets.
 - c) Wanes combined with knots.
 - d) Wood that has been badly stored and damaged.

3.1.2 WOOD VENEERS AND PLYWOOD:

- a. Wood veneered plywood shall be 4 mm. thick of an approved manufacturer. Veneered plywood shall be selected from the best quality new stock for grain and colour appearance.
- b. Plywood shall comply with IS:5509 and IS: 5539.

3.1.3 ADHESIVES AND FASTENERS:

- a. Adhesives shall be synthetic resin adhesive complying with IS:851.
- b. Screws shall be brass.
- c. Copper wire nails shall be in compliance with IS:725.

3.1.4 TREATMENT AGAINST DECAY AND INSECT ATTACK:

- a. Treatment against insect attack shall be by means of an approved proprietary product, proven to have outstanding durability under any conditions of exposure, to provide long-lasting protection against decay producing fungi and insects.
- b. The material used for treatment shall be clean, oil-free odourless and harmless to people, plants and animals, even when exposed to fire.
- c. The material shall be pressure impregnated for deep-penetration, fibre-fixed to prevent leaching. The treated wood shall be capable of being subsequently painted or stained without being discoloured.
- d. No coal-tar based products shall be used for preservative treatment.
- e. The material used for preservative treatment shall be compatible with the material used for

fire retardant treatment.

- f. All wood covered by this specification shall be treated.

3.1.5 FIRE RETARDANT TREATMENT:

- A. Fire retardant treatment of wood shall be by means of an approved proprietary product, proven to have outstanding durability under any conditions of exposure, to provide effective retardant treatment against fire. The material shall react chemically at temperatures below the ignition point of untreated wood to reduce flammable vapours emitted by wood and form a protective char while retaining the wood underneath structurally sound.
- B. The material used for treatment shall be clean, oil-free, odourless and harmless to people, plants and animals, even when exposed to fire.
- C. The materials shall be pressure impregnated for deep-penetration, fibre-fixed to prevent leaching. The treated wood shall be capable of being subsequently painted or stained without being discoloured.
- D. The material used for fire retardant treatment shall be compatible with the material used for preservative treatment.
- E. Surface spread of flame classification of IS: 476 Part 7.
- F. All wood covered by this specification shall be treated.

3.2 GLASS:

- a) All glass shall be float glass of glazing quality conforming to BS: 952, Part 1 or other acceptable standard.
- b) Glass and sizes and thickness shall be as shown on the Drawings and BOQ. All glass shall bear the label of its manufacturer and the standard to which it is manufactured.
- c) Glazing components: These shall be clear silicone sealant.
- d) While cutting glass, proper allowance be made for expansion. Each square of glazing to be in one whole sheet. On completion of work, all glass shall be cleaned inside and outside and all cracked scratched and broken panes shall be replaced and left in a good condition.
- e) All exposed edges of glass shall be lead polished.

4.0 JOINERY

- 9.1 Joinery is to be taken up immediately after the placing of the contract frame-up, bonded and wedged up. Any portions that are warped or found with other defects are to be replaced before wedging up. The whole of the work is to be framed and finished in a proper workman like manner in accordance with the detailed drawings, wrought and whenever required, fitted

with all necessary metal ties, straps, bolts, screws glue etc. Joiners work, generally to be finished with fine sand glass paper.

- 9.2 JOINTS: All joints will be standard mortise and tenon, dowel, dovetail, and cross halved. Nailed or glued butt joint will not be permitted. Screws nails etc. will be standard iron or oxidized and of nettle fold make joint less state otherwise. Where mortise and tenon joints are used, tenons should fit the mortises exactly. In respect of points in the hollock timber frame wash in sofas the joints should conform to the best practice in the trade.
- 9.3 Nailed or glued butt joints will not be permitted, except in exceptional cases with approval of Architects/Employer
- 9.4 Where screws shown on a finished surface, these will be sunk and the hole plugged with a wood plug of the same wood and grain of the finished surfaces unless detailed otherwise. Nails on finished surfaces will be nearly punches and the hole filled with wood filler to match the color.
- 9.5 Should joints in joiner's work open, or other defects arise within the period stated for defect liability in the contract and the clause thereof, such defective joinery shall be taken down and refilled, redecorated and/or replaced necessary and any work disturbed shall be made good at the contractor's expense.
- 9.6 The contract surface of dowel, wedges etc. shall be glued with an approved adhesive.
- 9.7 Where glued Joinery and carpentry work is likely to come into contact with moisture, the glue shall be waterproof.
- 9.8 All dovetail joints shall be further strengthened with M.S. Cleats for cabinet furniture like tables, storage units etc.
- 9.9 Where boards/plywood has to be fixed on another boards/plywood the two surfaces shall be fixed together by applying special carpenter's adhesive and headless nails.
- 9.10 All internal woodwork shall be treated with anti-termite and fire-retardant paint
- 9.11 All internal surfaces of cabinets, etc. in conventional carpentry works shall be finished with 0.8mm thick matt finished laminate of approved shade (if the surfaces are not Prelaminated)
- 9.12 All under surfaces of furniture (tables, counters, etc.) to be finished with 0.8mm thick matt finished laminate of approved shade (In case of non-prelaminated surface)
- 9.13 All exposed horizontal & vertical laminated surfaces shall be finished with 1mm thick laminate of approved make shade unless otherwise specified.
- 9.14 All exposed veneer shall be group matched natural cut plain veneer of approved make and shade.
- 9.15 All exposed veneered, wood surfaces shall be finished with matt melamine polish to approved shade.
- 9.16 All exposed edges of plywood, MDF, HDF board etc. shall be finished with 3mm thick lipping beading of specified wood if not specified to be finished with edge bending

- 9.17 All plywood/MDF/HDF board for office areas shall be water resistant, termite/borer proof commercial grade of specified make.
- 9.18 All plywood, /MDF/HDF, board for wet areas (toilets/pantry) shall be termite/borer proof and waterproof marine grade of specified make.
- 9.19 Joints in laminates will not be permitted until and unless the same is unavoidable or is required as per the drawings
- 9.20 Timber used shall be kiln seasoned and should be free from shrinkage, warpage even after fabrication of furniture/Chau khats.
- 9.21 Provision to be made for additional supports and reinforcement that may be required for stability and evenness at where curved/taper partition is constructed.
- 9.22 Contractor to make provisions of all necessary scaffoldings to facilitate high level installations.
- 9.23 Contractor to form openings on partition for services and to seal gaps using silicon sealant.
- 9.24 Where the use of spring loaded auto closing hinges is specified, the same shall be installed strictly as per manufacturers guidelines and relevant tools & fixtures like dowel inserts etc. required for the same
- 9.25 All items to have sample/Mock-up/Shop Drawing or all approved prior to commencement of mass production or fabrication.
- 9.26 All screws seen outside should be star SS.
- 9.27 The vendor should have all the latest machinery for woodworking and finishing or should utilize vendors having **Sliding Panel saw, through-feed edge banding, post forming machine, Routers, CNC machines, Flat Bed cold press for lamination, Sanders- flat bed and hand held, Mechanical/motorized Spindle Moulder, Controlled environment Paint shop, Powder coating plant**, and all tools and machinery required for precision & best finishing. (List of machines/setup to be attached along with the address of facility).

5. PAINT AND POLISHES:

- All materials required for the works shall be of specified and approved manufacturer, delivered to the site in the manufacturer's containers with the seals, etc., unbroken and clearly marked with the manufacturer's name or trade mark with a description of the contents and colour. All materials are to be stored on the site of the work.
- Spray painting with the approved machines will be permitted only if written approval has been obtained from the **KRIBHCO / Consultant**. The paint used for sparing is to be specially prepared by the manufacturer for spray Thinning of paint made for brushing will not be allowed.
- Wood preservative shall be Ascu Green Saver or any other equal and approved impregnating wood preservative at all concealed wood work shall be treated with wood preservative.

- All brushes, tools pots, kettles, etc. used in carrying out the work shall be clean and free from foreign matter and at to be thoroughly cleaned out before being used with a different type of class of material.
- All iron or steel surfaces shall be thoroughly scraped and rubbed with wire brushes and shall be entity free from rusting mill scale etc. before applying the priming coat.
- Surfaces of new wood work which are to be painted are to be rubbed down and cleaned to the approval of the Architects/Employer.
- All exposed teakwood surfaces and teak ply surfaces and surfaces which are not treated otherwise shall be finish with stained polish to the required shade and melamine matt finish.
- All exposed cedar wood surfaces and clear ply surfaces shall be finished with ready mixed wax polish to give nature shade.
- The tendered rates shall include cost of seasoning and providing wood preservative and as given in the specification
- Pure shellac varying from pale orange to lemon yellow color free from resin or dirt shall be dissolved in methylated spirit at **the rate of 140 gm of shellac to 1 liter of spirit.** Suitable pigment shall be added to get the required shade.
- The surface shall be cleaned. All unevenness shall be rubbed from smooth with the sand paper and well sets if variable shall be covered with a preparation of red lead and the size land on white hot Hoes and mgehtations on the surface shall be stopped with plazsr's putty. The surface shall then be given a coat of won filler by mixing whiting (ground chalk) in methylated spirit at the rate of 1.50kg of whiting per liter of spirit. The required staining agent shall be added to get the required sand. The surface shall again be rubbed down perfect smooth with glass paper and wiped clean.
- The polishing rubber, the most important implement in French polish shall consist of a pad of cotton wool, which acts as a reservoir for the polish and a soft white linen or cotton fabric similar to a well-worn handkerchief, which acts as a filter. The rubber must never be dipped in to the polish. It should be charged by pouring the polish on the pad with the cover remove.
- The surface shall be worked upon evenly a slow figure of eight motion until the surface is coated with a thin layer of polish. The object shall be to apply a series to thin coats, allowing only a few minutes for drying between the coats, when a level and even bodied surface is obtained the work is considered ready for the second stage is spiriting off.
- Allowing the work to stand for at least eight hours, a fresh rubber with a double thickness of cover material shall be taken and charged with methylated spirit. The surface shall be sprite off to remove the rubber marks and to give the brilliance of finish. The rubber shall be worked in the direction grain a continued till the surface is free from smears and rubber marks and left to harden off.

6. MELAMINE FINISH:

The melamine finish shall be applied on the French spirit polished surface.

The melamine coat of clean hard glaze shall be applied with a cloth pad. The surface shall then be left in or/any for at least six hours and further coats area applied with a paint brush. If the duration of gap is more than 2 hours between coats, the previous coat shall be rubbed down 24 hours between paper or a medium grade of steel wool. The matt finish shall be contained by giving a final coat of clean Ronseal matt coat.

7. WALL FINISHES:

INTERNAL SURFACES:

Cement plastering internally on all internal surfaces including soffits of RCC slabs, cutouts, services shafts, chajjas, lintels, all round shelves, inner side of all parapets, lift shafts etc. shall be as under:

- (a) Providing and applying Plaster of Paris putty of 10mm thickness over plastered surface to prepare the surface even and smooth complete.
- (b) 12-15 mm thick plaster in cement mortar 1:6 (1 cement: 6 parts 75% fine sand and 25% coarse sand) over brick and concrete surfaces. Dubbing out wherever required (i.e., bringing up the undulation on the rough face of brickwork in level with proudest points) shall also be executed in the same mix along with rendering coat.
- (c) Minimum of 6 mm thick plaster in cement mortar 1:3 (1 cement : 3 fine sand) on soffits of RCC slabs, cut-outs, counters, chajjas, lintels and kitchen platforms and all round of shelves and inner face of parapet parasol shall be provided
- (d) 10x6 mm grooves shall be provided in ceiling plaster at junction of wall and ceiling where POP cornices are not provided. 10x10 mm grooves shall be provided in wall plaster for steel doors as directed by KRIBHCO/ Consultant
- (e) 12-15 mm thick plaster in cement mortar 1:3 (1 cement: 3 coarse sand) mixed with water proofing compound as per approved makes and approved by KRIBHCO/ Consultant and as per Manufacturer's instruction to be done on internal surfaces of parapet walls and internal surfaces of walls of cup boards and lift and services shafts including dubbing wherever required irrespective of what is shown on drawings.
- (f) Before plastering it should be ensured that brick masonry joints are racked out (at least on even surfaces) to a depth of 12 mm and all concrete surfaces are rough enough for proper adhesion of plaster. If not, they shall be made rough by bush hammering at intervals of 50 mm. Efflorescence if any and dust/dirt shall be removed. The surfaces shall be wetted adequately before plastering.
- (g) GI Chicken wire mesh of 24 gauge and 20 mm mesh shall be fixed all along RCC and brick joints horizontal & vertical in a width of 300 mm with cement slurry and nails before plastering.
- (h) Sand used in plaster shall be within the grading zones as stipulated in the IS, silt contents shall not exceed 4% by weight. Brick surface shall be raked out at the end of day brick work to afford key to plaster. Plaster surface shall be hard and even without patchy appearance. If they flake or show scratch marks if rubbed by a pointed nail, the plaster shall be rejected,

dislodged and redone.

8. SHOP DRAWINGS:

The contractor shall submit for approval all joinery details for total furniture. Shop drawings shall relate to site measurements and shall show in detail the construction of various parts of the work, the method of jointing, thickness and type of material, the finishes to be applied to the various exposed surfaces, details of anchoring, joints, welds, fastening and all other relevant information.

9.0 GENERAL GUIDELINES FOR CIVIL WORKS:

- 9.1 Receiving all materials supplied by the Owners / your vendors, unloading, storing at location specified by the Engineer In charge/PM. No additional payment will be paid for any increase lead from this location conveying to work site & fixing in position. (If any materials supplied by Owner).
- 9.2 All finished flooring/Cladding shall be covered with ABRO or equivalent surface protection film without any extra cost till handing over to the Owner.
- 9.3 Measurements: Length and breadth of the plan area of the finished work shall be measured correct to a cm. no deductions shall be made for openings provided (up to less than 2sqft), nor shall extra material or labour have involved in such openings.
- 9.4 Cutting of tiles has to be smooth without any chipping on edges and has to be carried out with appropriate tools like: Diamond cutter. For inlay work Water-jet of CNC cutting will be required
- 9.5 The stone laying should be done by skilled Workers. The edges of the stone to be made at right-angles without any chipping and flaking of exposed edges. All surfaces to be made smooth and margin to be considered for smoothing process of edges. This is to achieve hairline joints not more than 0.1mm wide. (For Italian/granite/Engineered Marble)
- 9.6 All stone cracks and joints of flooring, Cladding, Molding (for Italian /granite/engineered Marble) to be filled and pasted with matching shade of Tinax.
- 9.7 Granite/Italian/engineered slabs should be free of all defects and all grains / patterns shall be properly matched from the same lot. Any color / lot variation shall be rejected.
- 9.8 External cladding stone (Gwalior) to be matched to nearest shade and Laying pattern for new and repairing infill works.
- 9.9 Only specified chemicals for fixing of stone cladding to be used, as per the manufactures specification and supervised by manufacturer company person on site.
- 9.10 The minimum quality benchmark will be decided by the Owner / Project management consultant / Architect based on mock up samples before commencing the work.
- 9.11 The base rate of granite/marble/Tiles includes discount and taxes at the point of purchase /showroom.

- 9.12 If there is a reduction in the basic rate the cost for the same shall be adjusted pro rata in the quoted rates. No increase in basic rates shall be allowed without written approval from the EIC / Architect.
- 9.13 Base sub-grade/sub-floor to be prepared by cleaning all dust/loose particles, caked mortar droppings, etc. by scrubbing with steel wire brushes. Surface to be roughened if so required and surface cleaned with water and kept wet for minimum 12 hours.
- 9.14 Bedding layer of mortar to be provided as directed in the case of 19mm+ slabs to correct level, step as instructed.
- 9.15 Finished work to be inclusive of cutting and polishing where specified/applicable.
- 9.16 Flooring to be cleaned, waxed or acid washed where applicable and as directed.
- 9.17 Pointing to be done using matching colored grout as specified/directed.
- 9.18 All marble flooring/slabs to be polished using tin oxide only.
- 9.19 Slurry for marble flooring to be of white cement only.
- 9.20 Great care must be exercised in cutting the RCC slabs/beams to locate suitable reinforcement for welding the M.S. flats to be provided for suspension of false ceiling system. The damage to the R.C.C. member shall be made good with cement mortar 1:2 (1 cement:2 coarse sand). The projecting portion of the M.S. flat below the R.C.C. member and any other steel member in the false ceiling system shall be painted with one coat of red oxide paint.
- 9.21 The tendered rates shall apply for all floors heights. The Tendered rates shall include backing of plastered surface wherever Dado/wall lining with marble/granite stone slabs are envisaged and the back has been plastered.

10.0 STONE/MARBLEWORK

10.1 GRANITE/MARBLE WORKS

- The granite/ marble stone work shall, in general, be carried out as per the CPWD Specifications. The specifications for dressing, laying, curing, finishing, measurements, rate etc. for the granite/ marble stone flooring shall be same as that of works for the Marble flooring, skirting and risers of steps under Flooring Sub Head of the CPWD Specifications. The wall lining / veneer work with granite/ marble stone shall be as per the CPWD Specifications for Marble Work Sub Head.
- The decision of the Engineer-in-Charge as regards the approval of the samples for the various types of the granite/ marble stones shall be final and binding on the Contractor. No claim of any kind whatsoever shall be entertained from the Contractor on this account. The Contractor shall then procure and get the mock up prepared at site of work for approval of quality of workmanship and the granite/ marble stone as specified. The mock up shall be prepared in lift lobby, toilet etc. on one of the floors. The size of the stones shall be as per the architectural drawings. If the quality of the workmanship and the material is as per the required standards, the mock up shall be allowed as part of the work and measured for payment and shall not be dismantled. Otherwise, it shall be dismantled by the contractor as directed by the Engineer-in-Charge and taken away from the site of the work at their

own cost. Nothing extra shall be payable on this account.

- That the curvilinear profile of the entrance steps for the building shall be negotiated in segmental manner (using trapezoidal shaped granites tone pieces with straight edges for treads and rectangular stone pieces for the risers) and not in curved profiles as specified earlier. However, the granite/marble stones labs shall be cut to required sizes and shapes, as per the architectural drawings, to negotiate the curved steps in segmented manner. The risers shall also be cut to required sizes and shapes and the edges chamfered at the joints, all as per the architectural drawings. However, the Contractor shall prepare the detailed shop drawings for the same and commence work only after the approval by the Engineer-in-Charge. The rate shall also include any consequent wastage, incidental charges involved in this work. Nothing extra shall be payable on this account. For the purpose of payment, the actual area of each type of granite/ marble stone as laid shall be measured.
- For the steps (risers and treads) in the linear profile, the granite/ marble stone shall be provided in single pieces up to 2.0m as per the architectural drawings, unless otherwise specifically permitted by the Engineer-in-Charge. Wherever grooves are required to be provided the same is to be done as per architectural drawings and as directed by the Engineer-in-charge. Wherever required, the joints shall be provided as per the architectural drawings. Nothing extra shall be payable on the accounts
- The granite/ marble slabs used for providing and fixing in the sills, soffits and jambs of doors, windows, ventilators and similar locations shall be in single piece unless otherwise directed by the Engineer-in-Charge. Wherever stone slab other than in single piece is allowed to be fixed, the joints shall be provided as per the architectural drawings and as per the directions of the Engineer-in-Charge. In the cabin areas, the joints in sills shall preferably be provided in line with the partition wall. Depending on the number of joints, as far as possible, the stone slabs shall be procured and fixed in slabs of equal lengths as per the architectural drawings and as directed by Engineer-in-Charge.
- While fixing the granite/ marble slabs in sills, soffits and jambs of doors, windows, ventilators etc., rebates shall be made by overlapping the stones at the required places for fixing shutters for doors, windows and ventilators etc. as shown in the architectural drawings and as per the directions of the Engineer-in-Charge. Epoxy based adhesives shall be used for fixing the granite/ marble stones to each other, or wherever required. The authorized overlap as per the architectural drawings or as directed by the Engineer-in-Charge shall be measured for payment under the same item. However, any extra mortar thickness required due to the overlap arrangement shall be deemed to have been included in the rate of this item. Nothing extra shall be payable on this account. The granite/ marble stone slab shall be fixed over low-level storage cabinets using necessary adhesive as per the manufacturer's specification. The stone shall have uniform thickness and shall be provided in sizes as per the architectural drawings. The stone slab shall have uniformly levelled surface after fixing. All the joints shall be finished smoothly in a workman like manner.
- The granite/ marble work shall be adequately protected by a layer of Plaster of Paris / William tape, which shall be maintained throughout and removed just before handing over

of the works for which nothing extra shall be payable.

10.2 SAMPLES FOR STONE WORK

Samples of each item of stone work either individually or in combination shall be prepared for approval of Engineer-in-charge before commencement of work.

11.0 FLOORING AND SKIRTING:

11.1. Vitrified Flooring

Selected and approved tiles shall be used for flooring and skirting of color shade and design and laid in the pattern as per drawings. All tiles used in the work shall be of first quality and free from cracks, twists, distortion, uneven edges and such other defects. Tiles shall be laid in such a way that it shall have uniform and with even hairline joints. Tiles shall conform to relevant IS Codes. Test Report from Standard Laboratory shall be submitted to establish that tiles conform to relevant Codes. Before laying tiles shall be washed cleaned and soaked in water for two hours. Tiles showing warpage shall not be used. Tiles shall be laid on even surface prepared with slope wherever required and laid over 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand) for flooring and 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand) for skirting including jointing with gray cement slurry @ 3.3 Kg/Sqm including approved sealant in joints and pointing in white cement mixed with matching pigment etc. complete.

Polished vitrified tiles shall be manufactured with salt soluble technology. The tiles shall be tamped and corrected with all horizontal surfaces of tiles in even plane and straight lines with butt joints to the satisfaction of Consultant & KRIBHCO. Tiles shall be firmly machine cut wherever required to adjust to size of rooms or for providing border or design as per drawings and as approved by consultant.

TECHNICAL SPECIFICATION OF VITRIFIED TILES

1. Deviation in length	+/-0.6%	EN 98
2.Deviation in Thickness	+/-5%	EN 98
3.Straightness of sides	+/-0.5%	EN 98
4.Rectangularity	+/-0.6%	EN 98
5.Surface flatness	+/-0.5%	EN 98

6. Water absorption	<0.5%	EN 99
7. Moh's hardness	>6	EN101
8. Flexural strength	>27N/sq. mm.	EN 100
9. Abrasion resistance	<204 sq. mm.	EN 102
10. Skid resistance (Friction coefficient)	<0.4	ASTM C-1028
11. Breaking strength	1113n	ASTM C-648
12. Density, gr/cc	>2	DIN 51082
13. Frost resistance	Frost proof	EN 202
14. Chemical resistance	No Damage	EN 106
15. Thermal shock resistance	No Damage	EN 104
16. Colour resistance	No Damage	DIN 51094
17. Thermal expansion	<9x10 ⁻⁶	EN 103
18. Stain resistance	Resistance	ISO 10545-
19. Moisture expansion	Nil	ISO 10545-10
20. Glossiness	-	Glossmeter

11.2 Toilet/bath counters:

18 mm thick pre-polished granite stone counter and 18 mm thick granite stone pre-polished fascia (of same shade and texture and of approved colour) with round edges on toilet/kitchen counters with 20 mm thick cement mortar as per item including rendering as shown on drawings. However, granite stone on fascia shall also be rendered with 12 mm thick cement plaster as per item and fixed with approved adhesive. Wooden laminated flooring

11.3 Wooden Laminated flooring provided with matching factory manufactured skirting and other accessories i.e., reducers, beading, T-profile & End-profile, transition profile etc. at all locations as per Consultant design and details/as per manufacturer's specifications.

11.4 Laminated Wooden Planks:

- a. Providing 8mm thick laminated wooden planks made out of direct process of lamination (DPL) and composed in four layers. Laminated planks shall be of classification of use 31/23, have abrasion and impact resistance of minimum of class AC-4 having density of not less than 940 kg/m³, fire resistant of Grade-4.
- b. Laminated wooden plank shall have four layers. First & Second layers are wearable and decorative (durable transparent) are made of wearable papers impregnated with melamine resin having total thickness of 0.2 mm. Core layer (third) shall be of 7.8mm thickness (including balancing paper) of High-Density Fibre Board treated by high temperature and pressure. The fourth layer shall be made of balancing paper impregnated with melamine resin.
- c. Dimension of wooden planks shall be minimum 1280x185mm.
- d. Laminated wooden planks shall be laid over 0.2 mm thick alkali resistant polyethylene sheet of density of 920-935 kg. per cum. including minimum 2mm thick extruded polyethylene foam of density of 30-32 Kg. Per cum (2-n-1 foam) over zero level hard sub floor. Laminated wooden planks shall be laid together should have inbuilt locking system.
- e. Laying of wooden flooring shall be done by company trained/approved installer as per the installation guide of manufacturers.
- f. Contractor shall produce the samples of different shade, texture and design for approval of KRIBHCO/ Consultant.
- g. Contractor shall inform in writing to the KRIBHCO & Consultant the names of one or more distributors as listed in List of Approved Makes whose laminated planks and accessories they proposes to incorporate in the work. Keeping in view the delivery schedule, the Contractor may place order on manufacturer to ensure that there is no delay in supply and fixing of laminated plans and other accessories as required for laying the floors. The Contractor shall hand over one copy of supply order placed on the distributor to the KRIBHCO, within one week of placing the supply order. Contractor shall render a 10-years guarantee from the main manufacturer to the employer who will be the principal guarantor.
- h. The period of 10-years shall be reckoned from the date of the completion of the contract.
- i. With each consignment of laminated planks and accessories brought at site for incorporation of works, the contractor shall submit custom duty clearances issued by the concerned.
- j. Laminated Plank shall be from one of the approved manufacturers/ distributors given in the list of Approved Makes.

11.5 TILES IN DADO FOR TOILETS AND KITCHEN:

- a. The tiles of first quality as approved shall be provided in dado of Toilets and Kitchen. Irrespective of what is shown on drawings, in the dado of the toilets, single design borders

as approved by KRIBHCO/Consultant of width of 100mm shall be provided at height, level as directed by KRIBHCO/Consultant. Border tiles shall be of same makes as given for ceramic tiles. Motif tiles 5 in nos. shall also be provided in each kitchen. The tiles shall be set over screed plaster 12/15 mm thick with cement mortar as per item to wall surface, set and jointed with adhesive/neat white cement mixed slurry and pigment to match the colour of tiles. The joints shall be neat and fine.

- b. Tiles shall be of approved manufacturer, colour and design. The tiles shall be free from cracks, warpage, twists, uneven edges, cracking and such other defects. The tiles shall be soaked in water for two hours before fixing, washed, cleaned and a coat of cement slurry applied and set in bedding mortar. The tiles shall be tamped and corrected to proper plane and lines. Tiles shall be set in required pattern and butt jointed. The joint shall be as fine as possible. The top of the dado shall be truly horizontal and joints truly vertical to the satisfaction of the KRIBHCO/Consultant.

11.6 ADHESIVE FOR TILES & STONES:

Polymer modified, cement based adhesive or equivalent of make as approved by KRIBHCO/Consultant shall be used for fixing of tiles and stones at vertical faces for interior and exterior use. The procedure for use shall be as per the instructions of the manufacturers.

12. POLISHING OF STONE :

Grinding and Polishing to Mirror Polish:

Grinding and polishing to achieve mirror polish in areas identified shall be carried out with machine as described below:

First Cutting:

The first grinding shall be done 14 days after laying of stone floor with 'O' No. synthetic grinding stone.

The floor should be grouted with the neat cement and marble powder in desired proportion of marble powder and flooding/curing carried out for next 3 days.

Second Cutting:

Seven days after the first cutting, second cutting shall be done with '1' No. synthetic grinding stone followed by repair with neat cement and mixed with desired proportion of marble powder and flooding and curing carried out for next 3 days.

Third cutting:

Ten days after second cutting third cutting shall be with '2' No. synthetic grinding stone followed by repair with neat cement mixed with suitable proportion of marble powder followed by flooding/curing for next 3 days.

Fourth Cutting:

After first coat of wall finish and door shutter fixing fourth cutting shall be done with '3' No. synthetic stone.

Fifth, Sixth and Seventh Cutting:

Fifth, sixth and seventh granite mirror finish shall be done after final painting and wall finishes with synthetic stone No's 4,5,6 or 5x synthetic stone and finally with Italian coloured stone to get final mirror finish.

GRANOLITHIC FINISH:

Grinding & Polishing to Granolithic Finish: Grinding and polishing to granolithic finish in areas as identified in para-2, Section-IX shall be carried out as described here-in-after. The surfaces shall then be cut with machine at least four times with different coarse and fine grade carborundum stone as per details given below:

- i) The first grinding shall be done with No.60 grit stone after 3-4 days. During grinding keep the floor wet all the time.
- ii) Clean the floor with water. The floor shall then be grouted with neat cement to fill up all holes and imperfections.
- iii) Air dry the grouted floor for a day and then cure for 3-4 days for hardening.
- iv) The second grinding shall be done after 7 days of laying with No. 80 grit stone and repeat grouting as above.
- v) Third grinding is done after 14-15 days of laying with No.120 grit stone.
- vi) The final grinding and polishing shall be done with No.320 grit stone.
- vii) After final grinding is over, scrub the floor thoroughly with soft soap solution made in water to clean the floor. When the surface is adequately dry slightly moisten with oxalic acid powder at the rate of 5 gms per square metre of floor surface and finally polished with wax polish of approved brand (mansion) to the entire satisfaction of KRIBHCO/ Consultant.
- viii) After the floor is polished fully saw dust of soft wood shall be spread over the floor for protection after which no moisture will be allowed to avoid stains on the floor.

13. DOORS, FALSE CEILING & FURNISHINGS:

- a. The fire retardant and preservative treatment of wood shall be performed after conversion of lumber to the required sizes in construction, so as to keep subsequent working on them to a minimum. Brush applies two heavy coats of the same wood preservative and fire-retardant chemical to any surfaces which were exposed by cutting, sawing, drilling etc.
- b. Set out all doors and window accurately in accordance with the Contract Drawings or approved shop drawings, true to location, dimensions, line and plumb.
- c. Ensure that dimensions of rough openings provided in walls and partitions are correct for the jamb, head and sill detail build-up including sub-frames, finished frame thickness and working tolerance, in order to install the required size of sashes. Make corrections in rough openings as required prior to installation of sub-frames and frames.
- d. All members shall be in continuous lengths between supports without any intermediate

joints or splices unless otherwise shown on the drawings.

- e. All sizes shown on the drawings are the finished dimensions and shall be within the tolerance given below:
 - i. For measurement up to and including 100mm in width or thickness - $\pm 0.5\text{mm}$.
 - ii. For measurement above 100mm in width and thickness - $\pm \text{mm}$.
- f. Generally, the finished door and window frames are designed to be installed after the completion of wet trades such as masonry and plastering. Rough frames shall be installed with masonry and fixed in place by means of mild steel hold fasts, at least four to each side.

14. SUB FRAMES:

- a. Sub Frames shall be of the size shown on drawings and shall be securely fixed to the wall and partition masonry or framing studs as applicable true to line, plumb and alignment. Ensure that adequate working tolerance is provided for the installation of door and frames.

15. DOOR AND WINDOW FRAMES:

- a. Door and window frames shall be of the sizes and sections shown on the contract drawings.
- b. Frames shall be fixed in place after the completion of all wet trades such as masonry plastering and filling in order to avoid wetting and damage of frames by plaster dropping etc. Frames shall be square and fully framed and joined and provided with temporary bracing to prevent distortion during erection. Secure frames to sub-frames by screws penetrating at least three fourth the thickness of sub-frames at 500 mm centre all round.

Counter – sink the head screws neatly at least 3 mm below the wood surface. Install the frames accurately with reference to finished wall surfaces as shown in the detail, true to line, plumb and alignment.

- c. The panel frames shall be jointed by “all wood” joints without metal fasteners by means of the most appropriate glued mortice and tenoned joints and wood pins. Mortises and tenons shall be tooled to obtain intimate contact between their surfaces and shall be fully glued with glue. Joints shall be tightened with vice, clamps, draw straps or other means to obtain tight, indiscernible joints, the grain of wood pins shall match the surface grain of the frames.
- d. After assembly the joints shall be tooled and sanded to remove minor unevenness at joints.
- e. Planted mouldings and architraves shall be fixed by means of headless-nails, neatly punched below the surface of wood.

16. WOODEN FLUSH DOOR SHUTTERS (SOLID CORE TYPE) :

Solid Core Flush shutters shall be of commercial or teak veneered type as specified in the approved make list. An approved sample shall be deposited in the office of the Architects / Engineer Incharge/PM on site for reference. The shutters will be provided with white beech wood lipping finished thickness of the shutter shall be as mentioned in the item.

17. STEAM BEECH WOOD/MAPLE WOOD/TEAK WOOD PANELLED SHUTTERS:

The thickness of stiles and rails shall be specified in nomenclature of items. Wherever possible each panel shall be in a single width piece. But where two pieces are used, width of each piece should not be less than 12.5mm. In order to avoid warping, splitting and cracking, normally pieces not exceeding 20cm in width should be used. When made from more than one piece, the pieces shall be jointed with a continuous tongued and grooved joint and glued together and reinforced with meter dowels. The grains of solid panel shall run along the long dimensions of the panel. Panels shall be framed into grooves to the full depth of the groove leaving an air soak of 1.6mm and the faces shall be closely fitted to the sides of the groove. Mouldings to the edge of panel openings shall be scribed at the joints.

18. FIXTURES & FASTENINGS:

Unless otherwise specified in the Schedule of Quantities, each shutter shall be hung with four brushed steel or other metal but hinges of approved quality size and make with brushed steel or other metal screws and the Contractor's shall cover for providing and fixing hinges to the shutters.

19. GLAZED SHUTTERS:

They shall be similar to panelled shutters except that such portions as directed shall be glazed with 10 mm thick float glass or as specified. Stiles and rails shall be rebated 12mm. to receive glass each bar shall be moulded and mitred on sides, to receive the glass. Glass panes shall be fixed with putty and beads.

20. FITTINGS:

All hardware fittings and fixtures shall be as per schedule of fittings and of heavy quality as approved by the Architects.

21. PARTITION & PANELING:

- Gypsum Board Partition:

The gypsum board partition shall be made of 12.5mm thick gyp board fixed to G.I./ Aluminum frame work as described in nomenclature of item and as per general practice of M/S India Gypsum Ltd or M/s Gyproc (Saint Gobin).

- WALL PANELLING:

Wall paneling shall be made of 4.0mm thick veneer / 1.0mm thick laminate cladded over 12mm & 6mm thick commercial ply fixed to 50mmx50mm kail wood framing (600mmx600mm) as described in nomenclature of the item.

22. FALSE CEILING:

- a. Gypsum Board False Ceiling:

The false ceiling shall comprise of GI frame work, gypsum board as described in the nomenclature of the item and general practice of India Gypsum Ltd or Gyproc.

b. Mineral Fibre False Ceiling:

ii. Acoustical Suspended Ceiling System shall be done as detailed below :

iii. TILES: Mineral Fibre Acoustical Tiles with crisp finely granulated surface shall be of approved make (Tegular edge/Micro) suitable for grids of nominal sizes 600mm x 600mm or 1200mm x 600mm as per specifications below :-

Type:	Dune Premiere or Approved equivalent
Humidity Resistance:	RH 95
Fire Performance:	Class 0 /class 1 (BS - 476)
Noise Reduction Coefficient (NRC):	0.80 –0.90
Sound Attenuation:	34 dB
Light Reflectance:	85%
Thermal Conductivity:	0.052 - 0.057 w/m c('K' Value)
Acoustical Punchers:	24000 (10mm deep)

iv. Suspension system:

Suspension system shall be Armstrong Prelude XL / TL Trulok F24 exposed grid T section. Flanges exposed face shall be powder coated color white.

Suspension system (Hot Dipped galvanized steel) sections consisting of the following members:

Main Runner - Main Runner shall be T-shaped section with single rotary stitching made from 0.33mm thick GS sheet and of size 24mm x 38mm and 3.60m long.

Cross Runner

a. Cross Runner T-shaped with double rotary stitching made from 0.25mm thick GS sheet and of size 24mm x 30mm and 1.20m long.

b. Cross Runner T-shaped section made from 0.25mm thick GS sheet and of size 24mm x 25mm and 0.60m long.

Perimeter Section - Perimeter wall angle made from 0.45mm thick GS sheet and of size 22mm x 22mm and 3.00m long, color white.

STEEL TILE CEILING:

v. TILES:

vi. COMPOSITION:

The TRAC STEEL PERFORATED TILE range of ceiling tiles manufactured from TRAC and shall comprise 0.5 mm thick polyester coated galvanized steel with primer.

vii. SURFACE FINISH:

The exposed surface shall be finished with 20-micron polyester top coat and 5-7 micron of back coat on rear side primer.

viii. DIMENSIONS:

Designer tiles are to be designed for installation on a standard 600 x 600mm module 24mm table exposed metal grid and are to be precision made to within plus or minus 0.25mm.

23. uPVC WINDOW SYSTEMS SPECIFICATIONS_

SPECIFICATIONS for the works that need to be executed and the materials to be used in the placement and installation of uPVC windows and associated products/fitting.

The following specifications describe the standards required for both manufacture and installation of windows.

24 WINDOWS/DOORS

All window frames and sashes shall be manufactured from white UPVC profile, which shall have 3/5 hollow chambers from front to back. The outer profile shall have a front to back depth of **60-65 mm**.

All sections of the frame and sash shall be reinforced in accordance with the system supplier's recommendations using galvanized mild steel in a single continuous length.

25. GENERAL REQUIREMENTS

Profile

The profile is to be extruded from a compound that has been blended to ensure quality and consistency. The material must be pristine white high impact modified window grade UPVC and must be colorfast and conform to **BS 7413 code**.

The profile shall be a hollow 3/5-chamber (across depth) profile with an outer wall thickness of 2.4mm only. The outer profile shall have a front to back depth of **60-65mm**. The profile shall be uniform and free from foreign bodies, cracks or marks.

Refer section drawing for Outer profile/transoms/sash.

Note: No profile shall contain recycled material.

Fabrication of window

The window units shall be designed with all corner joints, transom joints and mullion joints being mitered and fusion welded.

All excess material is to be neatly trimmed and neatly feature grooved/raised nib finish at corners, transom joints and mullion joints.

There is to be **no mechanical joining** of the profile. No polishing flush of any joints will be permitted.

The window units shall be designed so that the route of drainage is prevented from passing through the reinforcement chamber.

The finished product shall be free from all sharp edges, burrs and the like that may be hazardous to the user.

The dimensional tolerances on the finished outer frame height and width shall be ± 5 mm. Frame assemblies shall be such that they can be installed square within a maximum difference in the diagonals of 4mm.

In all window units, adequate drainage should be provided to permit the escape of water from platforms or horizontal members beneath each sealed unit. Monsoon Stop to be provided wherever necessary to provide barrier to excess rain water.

Reinforcement

Reinforcement shall be made from mild steel of 1.5 MM thickness.

The reinforcement shall be installed in accordance with the recommended actions. The reinforcement is to be installed to within 25mm of any weld in the frame and shall be in a single continuous length.

The reinforcement shall be secured to the profile so that it does not move or rattle and it maintains the structural integrity of the frame and satisfactory thermal separation. Reinforcement is to be fixed at a maximum of 100mm from the ends and then at a maximum of 400mm centers.

Glazing and Weather seals

GLAZING:

Window shall be such that glazing or re-glazing on site is possible without the need to remove the outer frames from the structure of the building.

All glazing is to be packed in accordance with BPF/GGF and the system supplier's recommendations.

All beads will be cut at the correct degree recommended by the manufacturer. Glass retention clips must be fitted in accordance with the Systems supplier's recommendations.

WEATHER SEALS:

The weather seal to be used in windows is to be a bubble E.P.D.M. as per ASTM- D412 & ASTM-D2240 codes.

The weather seals are to be fitted in continuous lengths and grooves. The joints in the vent weather seal are to be positioned at the bottom and in the outer frames at the top.

Security and Safety

Fasteners shall be designed so that they cannot be released from the outside by the insertion of a thin blade.

No opening light shall be open able or removable from the outside, when it is fastened in the closed position, except by use of special tools or breaking part of the window.

A	<i>General Conditions and instructions to be followed.</i>
1	In addition to the Interior Contractor/Vendor's representations , they shall, prior to quoting for works ,Initialisation, shipment, delivery and installation, visit and inspect the Project premises in order to confirm the conditions under which the Work is to be performed, verify the status of the premises and the Project, determine the availability of facilities for access, delivery, transportation and storage, determine the physical restrictions imposed by the Owner, separate contractors and building trades, and correlate these observations with the requirements of the Contract Documents.
2	The Interior Contractor/Vendor shall be responsible for accurately obtaining all field dimensions related to their work prior to starting the work; should any discrepancies be found; they shall immediately notify the Consultant in writing or in the form of drawing
3	The Drawings do not purport to show all objects or conditions existing at the site. Before commencing the Work, the Interior Contractor/Vendor must verify at the site all conditions and all objects to be preserved or accommodated
4	The Drawings show the location of all fixtures and equipment included in the Work and are intended to depict the general intent of the Work in scope, layout and quality of workmanship. The drawings are not intended to show in minute detail every and all accessories intended for the purpose of execution of the Work, but it is understood that such details are a part of this Work
5	The Interior Contractor has to Dismantle & clear all the dismantled entities including brickwork, Wooden partitions, Doors windows, flooring, tiling, electrical conduits, Fixtures, Wires, switches, plumbing, HVAC and drainage lines (to be done carefully, so as not to damage the attached services and plug them appropriately), return and stack carefully the items to be retained by Kribhco management as and where instructed. No separate rates are chargeable by any vendor for any kind of Dismantling and carting of debris at any stage of work.
6	Contractor has to mark out the complete layout considering proper line level and plumb with respect to the probable surface finishing which should also be in line, Plumb and Right angles. Only after marking & bench marking, Civil work walls and the partition frames be fixed. This

	is to avoid any misalignment and ensure perfect level and Right angles for all panelling and partition surfaces.
7	Rates quoted must have full compliance with the following including the cost of grey cement, and white cement.
8	The owner reserves the right to supply or issue price basis for any material item.
9	The owner reserves the right to 'lend' their name for all imported items in order to avail any possible duty exemptions and the said benefit shall go to the owner.
10	The items which are supplied free of cost need to be reconciled at the end of the project based on material constants.
11	Special attention to be paid to Technical specifications.
12	Base rate shall be arrived at after considering discount and Taxes. The rate should be ex showroom. Base rates shall not have any transportation, loading unloading, delivery, handling charges, wastage & delivery at site.
13	Contractors should factor in their prices for DG power /water Storage, Housekeeping, cleaning etc. None will be provided for at site.
B	<i>CARPENTRY, JOINERY WORKS</i>
1	Unless otherwise specified the rates quoted shall be inclusive of the following ~ Cost of material, taxes, transport, labour, overheads and profit & complete finishing etc.,
2	All internal woodwork shall be treated with anti-termite and fire-retardant paint
3	All internal surfaces of cabinets, etc. in conventional carpentry works shall be finished with 0.8mm thick matt finished laminate of approved shade (if the surfaces are not Prelaminated)
4	All under surfaces of furniture (tables, counters, etc.) to be finished with 0.8mm thick matt finished laminate of approved shade (In case of non-prelaminated surface)
5	All exposed horizontal & vertical laminated surfaces shall be finished with 1mm thick laminate of approved make shade unless otherwise specified.
6	All exposed veneer shall be group matched natural cut plain veneer of approved make and shade.
7	All exposed veneered, wood surfaces shall be finished with matt melamine polish to approved shade.
8	All exposed edges of plywood, MDF, blockboard etc. shall be finished with 3mm thick lipping beading of specified wood if not specified to be finished with edge bending

9	All plywood, blockboard for office areas shall be water resistant, termite/borer proof commercial grade of specified make.
10	All plywood, blockboard for wet areas (toilets/pantry) shall be termite/borer proof and waterproof marine grade of specified make.
11	Timber used shall be kiln seasoned and should be free from shrinkage, warpage even after fabrication of furniture/Chaukhats.
12	Provision to be made for additional supports and reinforcement that may be required for stability and evenness at where curved/taper partition is constructed.
13	Contractor to make provisions of all necessary scaffoldings to facilitate high level installations.
14	Contractor to form openings on partition for services and to seal gaps using silicon sealant.
15	Where the use of spring loaded auto closing hinges is specified, the same shall be installed strictly as per manufacturers guidelines and relevant tools & fixtures like dowel inserts etc. required for the same.
16	All items to have sample/Mock-up/Shop Drawing or all approved prior to commencement of mass production or fabrication.
17	All screws seen outside should be star SS.
18	Contractor to use the following screws unless otherwise specified.
19	For partition frame work: 16/8 no. sheet metal screw 16mm in length.
20	For partition anchoring on floor & true ceiling: 75/10 no. sheet metal screw 75mm in length.
21	For 6mm thick ply panelling 19/6 no. sheet metal flat head screw, 12mm thick ply panelling 25/8 no. sheet metal flat head screw, for 19mm thick ply panelling 32/8 no. sheet metal screw.
21a	For fixing 12mm ply for Panelling directly over pop levelled wall. 30x30 x50 mm treated with anti-termite oil wooden gitti to be used at every max 2' center to center both ways and fixed with 50/8# no. Screws, and 35/6# for postforming corner.
22	For fixing door hinges: 30/8 no. Philip head SS screw.
23	For fixing drawer channel: For bottom channel - 19/6 no., For side - 9.5/6 no. sheet metal screw.
24	For fixing metabox drawer channel: 9.5/6 no. sheet metal screw.
25	For fixing auto closing hinge: 16/6 round philip head screw. Along With pvc dowel screw insert of 8mm

26	The vendor should have all the latest machinery for woodworking and Finishing or should utilise vendors having Sliding Panel saw, through-feed edge banding, postforming machine, Routers, CNC machines, Flat Bed cold press for lamination, Sanders- flat bed and hand held, Mechanical/motorised Spindle Moulder, Controlled environment Paint shop, Powder coating plant, and all tools and machinery required for precision & best finishing. (List of machines/setup to be attached along with the address of facility)
27	For measurements of False ceiling all measurements will be done on square feet of surface basis and no running feet measurement will be accounted for except for measurement of a cove. The cove length will include the front & back both vertical surfaces, to be counted in one measurement irrespective of the size/height (length of front surface to be counted for measurement)
C	<i>CIVIL WORKS/ CLADDING /FLOORING WORKS</i>
1	Receiving all materials supplied by the Owners / your vendors, unloading, storing at location specified by the Engineer Incharge/PM. No additional payment will be paid for any increase lead from this location conveying to work site & fixing in position. (If any materials supplied by Owner).
2	All finished flooring/Cladding shall be covered with ABRO or equivalent surface protection film without any extra cost till handing over to the Owner.
3	Cutting of tiles has to be smooth without any chipping on edges and has to be carried out with appropriate tools like Diamond cutter. For inlay work Waterjet or CNC cutting will be required.
4	Daily housekeeping of work areas which includes segregation of debris like cement based, plastic, glass, wood and collecting in containers provided to/by you, at an acceptable location inside the site premises.
5	Granite slabs should be free of all defects and all grains / patterns shall be properly matched from the same lot. Any colour / lot variation shall be rejected.
6	The minimum quality benchmark will be decided by the Owner / Project management consultant / Architect based on mock up samples before commencing the work.
7	Unless otherwise specified the rates quoted shall be inclusive of the following ~ Cost of material, taxes, transport, labour, overheads and profit, etc.,
8	The base rate of granite/marble/Tiles includes discount and taxes at the point of purchase /showroom.
9	No wastages shall be paid for separately. The same shall be factored in the quoted rate.

10	If there is a reduction in the basic rate the cost for the same shall be adjusted pro rata in the quoted rates. No increase in basic rates shall be allowed without written approval from the EIC / Architect.
11	Base sub-grade/sub-floor to be prepared by cleaning all dust/loose particles, caked mortar droppings, etc. by scrubbing with steel wire brushes. Surface to be roughened if so required and surface cleaned with water and kept wet for minimum 12 hours.
12	Bedding layer of mortar to be provided as directed in the case of 19mm+ slabs to correct level, step as instructed.
13	Finished work to be inclusive of cutting and polishing where specified/applicable.
14	Contractor to be responsible for hiring/operating of all machines/equipment. Approval to be obtained from Project Management consultant before operating.
15	Flooring to be cleaned, waxed or acid washed where applicable and as directed.
16	Pointing to be done using matching coloured grout as specified/directed.
17	All marble flooring/slabs to be polished using tin oxide only.
18	Slurry for marble flooring to be of white cement only.
19	The Contractor shall provide, free of cost, all equipment, instruments, labour and all other allied assistance required by the Architect/Consultant or their representatives for measurement and testing of the works.

Note:

The following is the list of approved make/brand against each product. Where more than one brand has been specified, the names are given for alternate brands. Contractor is to quote rates based on the materials of listed makes, availability, delivery schedules and other parameter affecting delivery.

In the event that the Contractor is permitted to use materials of any other listed brand due to valid reasons then the contract rates shall be adjusted pro-rata on the basis of valuation of preferred materials. In the event that the prices are higher than that of first preference materials then the Owner is not liable to make any enhanced payment towards that item of work.

Sr. No.	Description	Manufactures
1.	Anti-Termite Treatment	M/s Paragon; M/s PECOPP; M/s Pest Control India Ltd; M/s Express pesticide corporation or as approved. Specialized agency shall be a Member of IPCA (Indian Pest Control Association)
2.	White Cement	M/s J.K Cement, M/s Birla white
3.	Brick	Compressive strength Avg. as per BoQ
4.	AAC Block	Brixo, Aercon, Magicrete, Approved local brand
5.	Bitumen impregnated Fibre board & Tar felt Waterproofing.	M/s Tikki Tar Danosa India Ltd, M/s STP Ltd., (Shalimar Tar Products)

6.	APP modified waterproofing membrane.	M/s Bronco, M/s Dr. Fixit, M/s STP Ltd., M/s. Sika, M/s Tikki Tar Danosa India Ltd
7.	Acrylic based chemical water proofing.	M/s Bronco, M/s Asian Paints; M/s STP; M/s Fosroc; M/s MYK Arment
8.	Integral Water Proofing Compound (Polymers, Sealants)	M/s Cico, M/s Pidilite; M/s Roff.; M/s Mc-Bouchmie; M/s Fosroc, M/s Sunanda Chemicals, M/s. BASF, M/s. Sika, M/s. ACCO Proof, M/s. MYK Arment
9.	Ceramic / Glazed / Vitrified Tiles	M/s Kajaria Ceramics, M/s H. R. Johnson, M/s Somani Tile, M/s Asian Granito India Ltd; M/s NITCO LTD, M/s Pavit Ceramic, Mozart Tiles
10.	Kota stone	Best Locally available - Approved by Architect
11.	Epoxy Terrazzo Flooring	MYKARMENT, Neocrete, Flowcrete, optimal floor
12.	Granite stone	Best Locally available - Approved by Architect
13.	Marble stone	Best Locally available - Approved by Architect
14.	Carpet	Shaw, Interface, Tandus, Miliken, Welspoon
15.	Teak wood skirting	Burma/Ballasha/Ghana/ Nagpur CP teak
17.	Wall care Putty	M/s Birla White, M/s. Walplast, M/s J K White
18.	Interior & Exterior Paint	M/s Asian Paints, M/s. Kansai Nerolac, M/s ICI Dulux Paints, M/s Jenson Nicholson, M/s Jotun,
19.	Synthetic enamel paint for steel	Asian paint, Nerolac, Jotun, berger
20.	Zinc chromate primer for Metal	Asian paint, Nerolac, Jotun, berger
21.	Fire Retardent paint	Jotun, Vermiculite
22.	PU paint & Spar Varnish	Asian, Nerolac, Jotun, Berger, Sunanda, MYK Arment
23.	Synthetic Enamel Paint for steel	Asian, Nerolac, Jotun, Berger, Sunanda, MYK Arment
24.	Modular Toilet Partition	Marino, Greenlam, Rushil, Metalium
25.	Pressed Steel Door Frame	M/s Shakti Hormann, M/s Navier, M/s J C, M/s Signum Fire Door, M/s bajaj Fire Door
26.	Metal Fire Doors	M/s Shakti Hormann, M/s Navier, M/s J C, M/s Signum Fire Door, M/s bajaj Fire Door
27.	Aluminium Section for Doors, windows & wall spans	M/s Jindal; M/s Hindalco,
28.	Aluminium Hardware	M/s Metco, M/s Allen, M/s Crown, M/s Ebco, M/s. Alans; M/s. Al-Alfa
29.	Plain Glass	M/s Modi Guard; M/s Saint Gobain, M/s Indo-Asah Glass
30.	Reflective Glass	M/s Saint Gobain, M/s Indo-Asahi Glass, M/s Glaverbel (Europe); M/s Pilkington (USA, UK)
31.	Flush Door Shutter	M/s Kalpatru, M/s Kuty Flush Door, M/s Century, M/s Kit-ply, M/s Sylvan Ply, Kolkata

32.	Plywood	M/s Century, M/s Kitply, M/s India Plywood, M/s Green Ply
33.	Plain/Pre-laminated Phenol bonded MDF Board	M/s Novopan, M/s Nuwood, M/s Bhutan Board, M/s Green Ply, M/s Action Tesa
34.	Veneers	M/s Century, M/s Kitply, M/s India Plywood, M/s Green Ply, M/s Timex, M/s Merino
35.	Laminate	M/s Formica, M/s Greenlam, M/s Century Ply, M/s Merino, M/s Timex, M/s Royal Touche, Rushil
36.	Fire rated hardware & system	Dormakaba, Assa Abloy (Yale), Hafele, Geze, Hormann, Becker
37.	Automated Sliding door	Dorma, Geze, Hafele, Kitch, Ozone
38.	Fire seal, fire smoke seal	3M, Hilti, Dormakaba, Sealz, Lorient, Kelargo, Raven, Athmer
39.	Acoustic Seal / Door seal	Athmer, Lorient, Raven, Dormakaba, 3M, Kelargo, Reddiplex
40.	Wood Adhesive	Speedex Fevicol, Araldite, kerakol, Astral
41.	Frosted Film	LG, 3M, Garware, Dupont
42.	Door Fittings & Fixtures (MS, AI, SS, Brass)	M/s Ebco, M/s. Everite, M/s Guardian, M/s Hafele, M/s Hettich, M/s Ozone, Kich
43.	Decorative High SS Finish Fittings & Fixtures	M/s Guardian, M/s Hafele, M/s Hettich, M/s Ozone, M/s Dorma, Kich
44.	Mortise Locks, Night Latch	M/s Godrej, M/s Guardian, M/s. Everite, Kich
45.	Door Closer	M/s Everite, M/s Hardwyn, M/s Godrej, M/s Hyper, M/s. Garnish, M/s Dorma, Kich, Otic, Ozone
46.	Floor Spring	M/s Everite, M/s Hardwyn, M/s Godrej, M/s Hyper, M/s. Garnish, M/s Dorma M/s Hafele, Ozone
47.	Glass patch Fittings	M/s Dorma, M/s Ozone
48.	Wood Polish Finish (lacquer, varnish, Polyurethane)	M/s Asian Paints, M/s ICI Dulux Paints, M/s Berger, M/s Kansai Nerolac
49.	Back Painted Glass	Saint Gobain, CCGGlass, SRG, VISHVESH
50.	Gypsum Based False Ceiling	M/s Saint Gobain Gyproc India Ltd, USG Boral, Armstrong
51.	Baffle Ceiling	Knauf (Armstrong), Oculus, hunter Douglas, Metalium
52.	Façade Screen wall	M/s Hunter & Douglas, M/s Oculus
53.	Mineral Fibre Acoustical Ceiling	Armstrong, Gyproc, Knauf, Hunter douglas, ASSA ABLOY, saintgobain, Ecotone
54.	Stretch Fabric Ceiling	Pandora, Barrisol, Barrilux, euroceil
55.	Open Cell Ceiling	Armstrong, Hunter douglas, USG boral, Linder, ASSA ABLOY, Ecotone
56.	Micro Perforated Gypsum Ceiling	Saint Gobain, USG-Boral, Knauf, ASSA ABLOY, Ecotone
57.	Moisture Resistant Gypsum Ceiling	Saint Gobain, USG-Boral, Knauf, ASSA ABLOY, Ecotone, Armstrong

58.	Plywood	Century, Green ply , Royle touch
59.	False Ceiling Tiles/ Grid Ceiling	Armstrong, Gyproc, Knauf, ASSA ABLOY, saint gobain, Ecotone
60.	Vinyl Print (Backlit, edgelit, translit, signages etc)	3M, Avrey, LG (Approved vendor universal signage or equivalent)
61.	Water proofing cement paint	MYKARMENT, Asian paint, Nerolac, Jotun, Pidilite
62.	Façade Screen wall	M/s Hunter & Douglas, M/s Oculus
63.	Dry Wall	M/s Saint Gobain Gyproc India Ltd, USG Boral
64.	Paver & Kerb	Vyara, PM Pavers
65.	Tensile Fabric	Ferrari Fabric , Mehler Fabric
66.	SS Railing	Dorma /Q Railing / M/S Technorail, M/S Hi Fab Aluminium/Kich/ozone
67.	Roller Blinds	Vista, Farari, Hunter douglus
68.	Modular matting	3M, milican, euronics, C&S
69.	Fastner	Hilti, Fischer
70.	Sealant, Grouts	MYKARMENT,Dow corning, GE, Fosroc, wacker
71.	Water stopper	MYKARMENT,sika, basf, fosroc
72.	Expansion joints	Kantafkex, 3R, Sanfield,Migua,C&S
73.	Epoxy Grout	MYK laticreate, dow corning, dubond, sika
74.	Adhesive for fixing mosaic tiles	Bal endura,MYK laticrate, Kerakol, Mapai

Note: Above make list is indicative and for many items same as listed in BOQ. Final make shall be as listed in BOQ against which party has quoted. Any missing items make shall be selected from above list.

Note:

- a. Where other Material are proposed to be used these should be got Approved from the Architect before execution of particular item. In case of Non- Availability of any material of specified make, The Alternative should be used only after it is approved in writing by the Employer or the Architect/ KRIBHCO.
- b. Before starting of work contractor must get all samples/make approved from Architect/KRIBHCO before using at site.
- c. Architect/ KRIBHCO reserve the right to add or delete name of any manufacturer as and when required.
- d. Architect/ KRIBHCO reserve rights to select any of the specified brands mentioned above.

REFERENCE DRAWING

The reference drawings are basically schematic/ diagrammatic to give idea on general requirements prepared on the basis of preliminary requirements and data available. They are subject to undergo changes and modifications subject to the finalization of details and requirements of the clients.

The detailed working drawings and the drawings required for the submission to statutory authorities shall be the responsibility of the contractor. Contractor shall submit minimum four copies of the drawings to the Consultants for their scrutiny/approval before issuing to the statutory authorities and site for execution.

NOTE: *This specification is of the general type only and must be used in conjunction with the drawing of the particular item being made. Anything shown on the drawing and not in the speciation must be complied with and vice versa.*

PART-C: ANNEXURES

FORMAT FOR BANK GUARANTEE FOR ADVANCE PAYMENT

NOTE: To be executed on a non –judicial paper of appropriate value.

Ref. No. _____

WHEREAS Krishak Bharati Cooperative Ltd., (hereinafter referred to as the 'Owner') which expression shall unless repugnant to the context include its legal representatives, successors and assigns, have a Purchase Order (hereinafter referred to as the 'Purchase Order') with M/s. _____ (hereinafter referred

to as the 'Vendor') which expression shall unless repugnant to the context, include its legal representatives, successors and assigns, for the design/supply of equipment for its plants.

AND WHEREAS, one of the conditions of the Purchase Order placed on the Vendor is that the Owner should make an advance payment of Rs. _____ (Rupees _____ only) being _____ % of the

Purchase Price against an Indemnity in the form of a bank guarantee from a scheduled bank / Nationalized Bank in a form acceptable to Owner.

AND WHEREAS, at the request of the Vendor, Owner has agreed to accept a bank guarantee from

_____ with Registered Office at _____ and having a branch office at

_____ (hereinafter called the 'Bank').

NOW THIS GUARANTEE WITNESSTH that in consideration of the Owner having at the request of the vendor agreed to accept a bank Guarantee of the Bank in respect of Rs. _____ (Rupees _____ only) required by vendor from the Owner for the worlds stipulated in the Purchase

Order, which figure of advance shall become reduced and extinguished as hereinafter set forth the bank hereby indemnified payment without protest or demur and without recourse to the vendor, to the said

Owner up to and not exceeding altogether a sum of Rs. _____ (Rupees _____ only)

being the amount of the 100% (Hundred) percent of the advance payment or such other unadjusted amount of the said advance. The decision of the Owner as to whether the terms and conditions of this Guarantee have been observed shall be final and binding of the Bank.

THE GUARANTEE HEREIN CONTAINED is not revocable by notice during the currency and will remain in full force until (a) payment has been made to the Owner by the Bank of the aggregated amount payable herein under or (b) the said advance has been fully adjusted and extinguished, as hereafter set forth, whichever is earlier. Out of the gross amount each invoice representing the full cost of work being affected percent of the amount due will be deducted by way of adjustment of the said advance in the invoices such that in the last or such earlier invoice as may be agreed to under the terms of Purchase Order, the residual balance of the advance shall automatically got extinguished. Our liability under this Guarantee is restricted to Rs. _____ (Rupees _____ only).

UNLESS PREVIOUSLY CANCELLED BY TH OWNER, this indemnity will remain in force up to _____ months form the date of issue of the Guarantee i.e. up to _____ and will stand automatically cancelled on the expiry of the said period unless mutually agreed upon that the Guarantee shall continue for a period longer than contemplated hereunder. Unless demand or claim under this Guarantee is made on us in writing within six months from the date of the expiry of this Guarantee all the rights of the Owner against us hereunder shall be forfeited and we sell be relieved and discharged from all liabilities hereunder.

The Bank declares that it has the power to issue the Guarantee under Regulations 1959 and the undersigned has full powers to do so on behalf of the Bank.

Signature of the issuing authority & seal.

Dated: This _____ day of 20_____

ANNEXURE – B

FORMAT FOR PERFORMANCE BANK GUARANTEE

Note: To be executed on a non-judicial stamp paper (Rs100)

Ref. No. _____

THIS GUARANTEE made on this _____ day of _____
(month) _____ 2025 (Year) on _____ Bank
(address) _____

_____ (hereinafter called the Bank) which expression shall unless repugnant to the context or contrary to the meaning thereof include its successors on one part and KRISHAK BHARATI COOPERATIVE LIMITED, a multiunit Cooperative Society incorporated under the provisions of the Multi State i Cooperative Societies 2002 and having its Registered Office at A- 60, Kailash Colony, New Delhi -110048 (hereinafter called the Owner) which expression shall include the successors and assignees, on the other part.

WHEREAS the Owner has placed a Contract with _____ (hereinafter called the Contractor) having _____ its _____ Registered _____ Office at _____ for _____

(hereinafter called the work) at the total cost of Rs _____
(Rupees _____ only).

WHEREAS it is one of the terms of the said contract that the Contractor shall furnish to the Owner a Guarantee of a Bank which shall be for _____ % of the value of the contract and shall be valid for the entire work covered by the said contract and the entire period of defect liability in respect of the said work.

WHEREAS the Bank has, at the request of the Contractor, agreed to give in favors of the Owner a Guarantee in manner hereinafter appearing, which the Owner has agreed to accept.

THIS DEED WITHNESSETH as follows:

1.0 In pursuance of the said agreement and in consideration of the promises, the bank hereby Guarantee to the Owner due observance and fulfillment by the Contractor of the terms of the said Contract relating to the said work and of the performance warranty which is a part of the said contract and agrees and undertakes that if the Contractor fails to observe and fulfill the said terms of the said contract and/or the performance warranty, then the Bank shall immediately pay to the Owner on demand such sum or, sums of money to the extent of Rs. (Rupees_ only) being _% of the value of the said contract on account of losses and damages suffered by the Owner as may be claimed by the Owner by reason of such non-observance and non-fulfillment by the Contractor as aforesaid and shall also indemnify the Owner against all losses and damages suffered by the Owner as aforesaid and against all costs, in connection herewith and against all costs, charges, expenses which may be incurred by the Owner in connection herewith.

The Bank shall pay the said amount without demur or protest or without recourse to the Contractor. Any such demand placed on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee.

2.0 This guarantee is a continuing guarantee and not revocable except with the previous written consent of the Owner and save as aforesaid it will continue in force until the contractor has maintained the schedule of delivery of the said work under the said contract and observed and fulfilled the said performance warranty and all other terms and conditions of the said contract. The guarantee is valid upto —

3.0 The Owner may, without affecting bank's liabilities and obligations hereunder, grant time or other indulgence to or compound with the contractor or enter into any agreement or agree to forbear to enforce any of the terms and conditions of the said contract against the contractor or agree to vary any of the terms and conditions of the said contract.

4.0 This guarantee shall not be affected by any change in the constitutions of the Owner by absorption with any other body or corporation or otherwise and this guarantee will be available/or enforceable by such body or corporation.

5.0 All compositions and payments received by the Owner from or on behalf of the Contractor shall be regarded as payments in gross and in the event of the Contractor being wound up, the Owner will be entitled to prove against the properties of the Contractor in respect of the whole of the Contractor's indebtedness to the Owner, without any right on the part of the Bank to stand in the Owner's place in respect of or to claim the benefits of such composition and payment or any security held by the Owner until the Owner shall have received the full amount of the claims against the Contractor.

6.0 In order to give effect to this guarantee the Owner will be entitled to act as if the Bank were the Principal debtor and the Bank hereby waives all and any of its rights of surety ship.

7.0 This guarantee shall continue to be in force notwithstanding the discharge of the Contractor by operation of law and shall cease only on payment of the full amount by the Bank to the Owner of the amount hereby secured and on the claim of the Owner against the Contractor in respect of the said Contract being satisfied. However the guarantee is valid upto

_____.

8.0 This guarantee shall be in addition to and not in substitution for any other guarantee or security for the Contractor given or to be given to the Owner in respect of the said Contract by the Bank (whether alone or jointly with others).

9.0 Unless demand or claim under the guarantee is made within six months from the date of expiry of this guarantee, all the rights of the Owner hereunder shall be forfeited and the Bank shall be relieved and discharged of all liabilities hereunder.

10.0 These presents shall be governed by and construed in accordance with Indian law.

11.0 Subject to clause 2 hereof this guarantee remains enforce for completion period of i.e. upto

_____.

12.0 Any notice by way of request, demand or otherwise hereunder may be sent by post to the bank addressed as aforesaid and if sent by post it shall be deemed to have been given at the time when it would be delivered in due course of post and in proving such notice, when given by post, it shall be sufficient to prove that the envelope containing the notice was posted and a certificate signed by an Officer of the Owner that the envelope was so posted shall be conclusive.

13.0 Notwithstanding anything contained hereinbefore, our liability under this guarantee is restricted _____ to _____ Rs. _____
(Rupees

_____ only) and it will remain in force till _____ Unless a claim or demand in writing is made with us under this guarantee on or before _____ all your rights under the said guarantee shall be forfeited and we shall be relieved liabilities there under.

14.0 The Bank declares that it has the power to issue the guarantee under Regulations 1959 and the undersigned has full powers to do so on behalf of the Bank.

Signature of the issuing authority with seal.

FOR Bank

Corporate Seal.

(On Non-Judicial Stamp paper of Rs.100/-)

**GUARANTEE TO BE EXECUTED BY CONTRACTORS FOR REMOVAL OF DEFECT
AFTER COMPLETION IN RESPECT OF WATER PROOFING WORKS**

This deed of unconditional Guarantee Agreement for the work of Water proofing work atat..... made this day of between M/s. (hereinafter called the Contractor) on the one part and the KRIBHCO hereinafter called the **Krishak Bharati Co-Operative Ltd., A-10, Sector-I, Noida - 201301, (U.P.)**, (hereinafter called KRIBHCO) of the other part.

WHEREAS THIS AGREEMENT is supplementary to Contract (hereinafter called the Contract) dated work order No. (Contract) date: made between the Contractor on the one part and the KRIBHCO on the other part, whereby the Contractor interalia, undertook to render the building and the structure work in the said Contract completely water and leak-proof.

AND WHEREAS THE CONTRACTOR agreed to give a Guarantee to the effect that the said structures will remain water and leak-proof and free of dampness seepage etc. in all respects to the entire satisfaction of KRIBHCO for **five years** from the date of issuance of completion certificate if any/or from the date of completion of the work decided by KRIBHCO whichever is later.

Provided that the Contractor will not be responsible for leakage caused by earthquake or misuse of tank or alteration and for such purpose it means and includes only as defined herein below:-

- a) Misuse of shall mean and include only operation which will damage water proofing treatment, like chopping of fire wood and things of the same nature which might cause damage to the tank.
- b) Alteration shall mean under this guarantee only construction of an additional work or on apart of the Building or construction adjoining to existing Building whereby water proofing treatment is removed in part.
- c) The decision of the Engineer-in-charge with regard to cause of leakage shall be final and binding on the party herein.

During this period of Guarantee, the Contractor shall make good all defects whatsoever to the entire satisfaction of KRIBHCO and in case of any defect being found noticed the contractor will render the building waterproof to the entire satisfaction of the Engineer-in-Charge at the contractor's cost only and shall commence and complete in all respects of the work such rectification within seven days from the date of issue of notice from the Engineer-in-charge calling upon him to rectify the defects failing which the works shall be got done by the KRIBHCO by engaging some other contractor at the Contractor's risk, cost and responsibility without any notice and the contractor will have no objection with regard to engaging third person/agency for the rectification of the work. The decision of the Engineer-in-charge as to the cost and expenses whatsoever payable by the contractor shall be final and binding and the same shall not be disputed.

That if the Contractor fails to execute the water proofing or commits breach of only of the terms thereunder, then the Contractor will completely and all time to come indemnify the KRIBHCO against all loss, damage, cost, expenses or otherwise which may be incurred by KRIBHCO by reason of any default or negligence or poor performance of work or unskilled workmanship on the part of the Contractor in performance and observance of this supplementary agreement. As to the amount of loss and / or damage and/or cost incurred, the decision of the Engineer-in-charge will be final and binding and will be payable by contractor without any default or protest.

The contractor hereby guarantees that the work under this will be of high professional and standard quality and assures to use the best quality of material/ chemicals for water proofing job.

IN WITNESS WHEREOF M/s. and the KRIBHCO by the order and under the direction of the KRIBHCO hereinto set their respective hands the day, month and year first written above.

Signed, Sealed and delivered by the contractor in presence of

Witness:

(i)

Signature.....

.....

Name.....

.....

Signature.....

.....

(ii)

Name.....

.....

Signed by the order and direction of the KRIBHCO in presence of

(i)

Signature:

Name:

(ii)

Signature:

Name:

.....

PART-D: PRICE BID

ATTACHMENT - XII**SUMMARY OF PRICES**

Work Head	Amount (in rupees)
Price for work as per BOQ	
Total	
GST @ 18%	
Total including GST	

KRIBHCO Seed Processing Unit, Bagla Road, Hisar, Haryana

Bill of Quantities

S. No.	Description of Item	UOM	Qty	Rate	Amount	Make/ Model
1	Repairs to plaster in patches, including cutting the patch in proper shape, striking out worn out plaster raking out joints and preparing and plastering the surface of the walls With cement mortar 1:4 (1 cement : 4 fine sand) complete at any height, including scaffolding etc, disposal of rubbish to the dumping ground at any lead & height as approved by authority, all complete as per direction of Engineer-in-Charge.	sqm	5200			
2	Repairing of cracks & holes in wall by cement grouting (1:2) at any height including widening the crack on the surface (into V-section) cleaning and packing the same with cement mortar (1cement :2 course sand) and finishing off to match with adjacent surface. The work shall be carried out all complete as per specification and the direction of the engineer-in-charge.	m	50			
3	Supply & Application of Acrylic exterior emulsion paint of approved quality and brand, as per manufacturer's specification and as per direction of Engineer-In-Charge to be applied over acrylic primer as required including supply & Applying Exterior grade Acrylic primer of approved quality and brand on plastered or concrete surface old or new surface to receive decorative textured (matt finish) or smooth finish acrylic exterior emulsion paint including scraping and preparing the surface thoroughly, complete as per manufacturer's specification and as per direction of the EIC at any height. It is to be ensured that finished surface shall be to the satisfaction of Engineer-in-charge. Note: Rate to include cost of materials, tools, tackles, scaffolding, labours & all other incidental charges etc. as required for the job.	sqm	3000			Primer - ICI/ Asian Paints/ Berger/ Nerolac Paint - ICI Dulux Weathershield Max, Apex ultima of Asian paint, Barger Weather coat long life Flexo or equivalent
4	Applying Acrylic Interior Emulsion Paint of approved make and brand on walls and ceiling including sand papering in intermediate coats including putty (to be done under specific instruction of Superintending Engineer) : Two coats with Acrylic Emulsion Paint. (Rate is inclusive of applying additional coats wherever required to achieve even shade and colour). Including Supply & Applying Interior grade Acrylic Primer of approved quality and brand on plastered or concrete surface in old or new work to receive Distemper/ Acrylic emulsion paint including scraping and preparing the surface thoroughly, complete as per manufacturer's specification and as per direction of the EIC at any height. :Water based interior grade Acrylic Primer One coat. It is to be ensured that finished surface shall be to the satisfaction of Engineer-in-charge. Note: Rate to include cost of materials, tools, tackles, scaffolding, labours & all other incidental charges etc. as required for the job.	sqm	3000			Primer - ICI/ Asian Paints/ Berger/ Nerolac Paint - Asian Paints Apcolite/ ICI Dulux Super Clean 3 in 1/ Berger Easy clean
5	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade: Two or more coats over and including water thinnable priming coat with cement primer	sqm	5000			
6	Providing and laying 18-20 mm thick, mirror polished premoulded and pre polished machine cut granite stone of required size and shape of approved shade, colour and texture in flooring, Ramp, Basin counter, stair -riser, tread, skirting, dedo, Jambs, Partation, Parapet Top etc., laid over 20 mm thick base of cement mortar 1:4 (1cement : 4 coarse sand) including grouting the joints with white cement mixed with matching pigment, epoxy touch ups etc. complete as per direction of Engineer-in-Charge. Including dismantling of existing floor and disposal of rubbish to the dumping ground at any lead & height as approved by authority. The rate to include all material required for the work.	sqm	200			

7	Providing and fixing Kota stone slab of thickness 18-20mm in flooring, Ramp, Basin counter, stair -riser, tread, skirting, dedo, Jambs, Partation, Parapet Top etc. laid on 20mm (average) thick cement mortar 1:4 (1 Cement : 4 Coarse sand) and jointed with Grey cement slurry mixed with pigment to match the shade of the flooring, Ramp, Basin counter, stair -riser, tread, skirting, dedo, Jambs, Partation, Parapet Top etc., including rubbing and polishing complete. Including dismantling of existing floor and disposal of rubbish to the dumping ground at any lead & height as approved by authority. The rate to include all material required for the work.	sqm	200			
8	Providing & applying synthetic enamel paint (corrosion resistant) of required shade of approved brand and manufacturer on earlier painted concrete / masonry/Wooden/Steel surface at all elevations as per direction of our Engineer-in-charge. Including supplying & applying priming coat with red oxide zinc chromate primer of approved brand & manufacturer on steel galvanised iron/ steel works /fire fighting line The rate to include necessary scaffolding surface preparation and cleaning of splashes on floor etc. complete.	sqm	300			
9	Repair of CC road: supply & laying of Plain Cement concrete of required thickness in required area including removal of existing wethered and fractured concrete layer and disposing of the rubbish/garbage at authorized location at any lead and any height (1cement:2course sand:4agrrregate)	cum	5			
10	Drain Repair Work: Cement concrete joint treatment using waterproofing material (fosroc, Sika or equivalent) with mixed with cement sand mortar Rate includes supply, installation, testing and all other incidental charges for completion of work in entirety.	Rm	500			Waterproffing material - Fosroc, Sika, Pidillite
11	Godown Elevated Platform/ Ramp: Repair of elevated platform/ ramp floor - Dismantling of concrete floor using required tools and tackles including storing/ stacking at designated place within plant premises. rate includes removal as well as replacing the slabs in place using mortar (1:6) 50mm thk	sqm	400			
12	Godown Elevated Platform/ Ramp: Repair of elevated platform/ ramp floor - Construction of concrete floor after dismantling (as in Sr. no. 11) rates include supply, application and all other incidental charges to complete the work	cum	30			
13	Godown Elevated Platform/ Ramp: Repair of elevated platform/ ramp floor - Supplying and filling in with Good quality River sand under floors/foundation including watering, ramming, consolidating and dressing complete as per instruction of the Engineer-In-Charge.	sqm	400			
14	Godown Elevated Platform/ Ramp: Repair of elevated platform/ ramp (bottom portion) - Repairing wethered/ fractured concrete including scrapping of falling/ fractured surface by required tools & tackles including rebar treatment using Fosroc rust remover including disposal of unused material upto any lead and height at authorized place.	sqm	300			
15	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in below & above plinth level up to any floor level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	30			
16	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in in Below Plinth/superstructure above plinth level up to any floor level. Cement mortar 1:4 (1 cement : 4 coarse sand)	sqm	100			

17	Providing 10-12 mm thick cement plaster in single coat plastering on ceilings and soffits of stairs upto all level, all Floor, any Height finished even and smooth in including curing etc complete. [I] Cement mortar 1:4 (1 cement : 4 fine sand)	sqm	100			
18	Providing 12-15mm thick cement plaster in single coat on Rough (Similar) side of single or half brick walls for interior plastering upto all level, all Floor, any Height and finished even and smooth in (i) Cement mortar 1:4 (1-cement:4-sand)	sqm	200			
19	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete	sqm	300			
20	Providing and laying in position Ready Mixed M20 grade concrete for reinforced cement concrete work , using cement content as per approved Design Mix manufactured in fully automatic batching plant and transported to site of work in transit mixer for a lead up to 10 kms having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying, including the cost of centering shuttering finishing and including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. (Min cement level as per latest IS 456 shall be maintained)	cum	15			
21	Providing TMT Bar FE 500 reinforcement for R.C.C. work including bending, binding and placing in position complete upto floor two level	kg	3000			
22	Providing and laying Full Body Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily. (Size 600mm x 600mm) Basic Rate of Tile - 80 Rs. Per Sq.ft	sqm	50			
23	Providing and fixing Aluminium powder coated windows (as per drawing) made out of extruded sections as per the recommended profiles & detailed specifications, wind pressure/thermal/seismic forces conforming to alloy 63400 WP with chemical composition and mechanical properties as per IS:733:1983 and IS 1285:2002, approved shop drawings, machine cut notches/joints, packing shims, sealing gaps between window & opening/sub-frame with exterior grade appropriate backer rod , PU Sealant, silicon sealant, PVC Frame Packers/Pads (6mm), SS 304 countersunk screws, scaffolding, working at all heights, etc. all inclusive Tenderer shall consider appropriate sections, which shall be approved by Architect prior to Installation on site with physical samples/mock-up, which is subject to change as per design requirements and aesthetics. Tenderer shall submit general arrangement drawings for each type of windows comprising of details of all sections/ fittings/ accessories along with the quote. The Contractor shall provide 10 year warrantee for the windows. Rate is inclusive of Lock, Handle, Hinges, EPDM rubber, powder coating on aluminum, Fitting work, etc. all complete.(The frame section specified is intended to be used for a height upto 2.1mt. Tenderer to confirm suitability of the section.)	sqm	5			
24	Providing and fixing second class wooden doors and windows ,including ISI marked black enamelled M.S. butt hinges, handles and all hardware complete.(for toilets)	sqm	5			
25	Providing and fixing MS window grill @ 125mm c/c spacing with primer and painting complete	sqm	5			

26	Single Leaf Flush Door with Wooden Frame and finish with laminate: Providing and fixing in position 35-40 mm thick solid core wooden single leaf flush doors of approved make having fire retardant ply facing on both sides and finished with veneer as approved , Door Frame made From Solid Wood with Matching Polish, & Any Groove Pattern, Hardware system of Geze/Dorma like . work complete including all type of hardware, fittings , fixtures, ply frame covering with finish & polish etc complete as per detailed drawings and specifications. As per Given Detail. Basic Rate for material only teak veneer - 100/Sqft.	sqm	5			
27	Structural steel work welded in built up sections, trusses, and framed work including cutting, hoisting, fixing in positions and applying a priming coat of approved steel primer and two coats of epoxy steel paint and make all complete as per instruction of Engineer- In-charge. (vehicle shed)	kg	10000			
28	Electrical: Supply & installation of 150Amp. 4 pole MCCB with DB including all wiring & accessories complete	Set	1			Schneider Electric, ABB, Siemens, L&T, Havells, and HPL Electric & Power
29	Electrical: Supply & installation of 200W high bay lights including all wiring & accessories complete	nos.	22			Philips, Havells, Crompton, Wipro, Syska
29	Electrical: Supply & Installation of LED Tubelights 25W including all wiring & accessories complete	Set	5			Philips, Havells, Syska, Wipro, Crompton, and Bajaj
30	Electrical: Supply & Installation of Street lights 50W LED including all wiring & accessories complete	Set	25			Philips, Havells, Syska, Wipro, Crompton, and Bajaj
30	Supply & Installation of Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, conforming to IS 13032 and BS 5486-1986 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) - Three phase 8 way SS Double door for horizontal single phase outgoing	nos.	2			
31	Supply & Installation of Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, conforming to IS 13032 and BS 5486-1986 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) - Three phase 4 way SS Double door for horizontal single phase outgoing	nos.	2			
31	Supply & Installation of Miniature circuit breaker single pole 6A to 32A suitable to operate on 240 V A.C. system and having breaking capacity 10 KA to be erected in existing box. conforming to IS 8828/1996 with ISI Mark - SP MCB	nos.	10			
32	Supply & Installation of 415 V MCB Four Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity 6 to 32 Amp.	nos.	2			
32	Supply & Installation of 415 V MCB Four Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity 40 Amp.	nos.	2			
33	Supply & Installation of 415 V MCB Four Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity 63 Amp.	nos.	2			
34	Supply & Installation of approved make RCCB + MCB (Electro magnetic type only) working on residual current device having 10 KA short circuit breaking capacity and 30 mAmp. Sensitivity & 30 mili sec. tripping time conforming to IS 12640 test knob facility trip free mechanism operating for rated leakage at nominal ten volt, complete erected including all materials lugs screws etc. completed. 32A to 40 A, 4 Pole Three Phase Cat. II	nos.	2			
35	Supply & Installation of XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Copper conductor for 1.1 KV. to be laid on wall with necessary clamps or in trench (including chasing etc) / pipe at road crossing or floor of following size of cables. (a) 4 core 2.5 Sq. mm	Rm	100			

35	Supply & Installation of XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Copper conductor for 1.1 KV. to be laid on wall with necessary clamps or in trench (including chasing etc) / pipe at road crossing or floor of following size of cables.(a-1) 4 core 4 Sq. mm	Rm	100			
36	Supply & Installation of XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Copper conductor for 1.1 KV. to be laid on wall with necessary clamps or in trench (including chasing etc) / pipe at road crossing or floor of following size of cables.(B) 4 core 6 Sq. mm	Rm	100			
36	Supply & Installation of XLPE (IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in trench (including chasing etc)h / pipe of following size of cables (c) 4 core 10 Sq. mm	Rm	100			
37	Supply & Installation of XLPE (IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables(d) 4 core 16 Sq. mm	Rm	100			
37	Providing and fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. Solderless crimping type Copper lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (E) 4 core 4 Sq. mm / 4 core 2.5 Sq. mm	set	2			
38	Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. Solderless crimping type Copper lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (E) 4 core 6 Sq. mm	set	2			
38	Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. Solderless crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (E) 4 core 10 Sq. mm	set	2			
39	Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. Solderless crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (E) 4 core 16 Sq. mm	set	2			
39	Supply and Installation,Testing and Commisioning of Point wiring for Light Point / Bell with 2 Nos 1.5 sq.mm & earthwire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of pipe to be erected concealed in/ on surface on wall/ceiling complete with 6A Modular type switch / bell push & accessories and earth continuity of following type, erected on PVC / Metallic box, single mounting base frame covered with textured/metallic front plate modules erected on / in wall / ceiling as per pipe erected, with necessary Lamp holder/ceiling rose / H.D.Connector as directed.with medium class Rigid PVC pipe and accessories Rate Include Mains from DB to SB and Looping from SB to SB with 2.5 Sq.mm Ckt Mains - 6.0 Mtr Average Length	nos.	10			

40	Supply and Installation, Testing and Commissioning of Point wiring for secondary light point with 2 Nos 1.5 sq.mm & earthwire of 1.5 sq.mm (green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of pipe to be erected concealed in / flushed on wall/ceiling, complete with earth continuity and necessary connection with primary light with accessories erected on Metal / PVC box covered with 3 mm thick PC(Polycarbonet) / Acrylic sheet for open / concealed wiring. with necessary Lamp holder / ceiling rose / H.D.Connector as directed. (a) with medium class Rigid PVC pipe and accessories	nos.	5			
41	Supply and Installation, Testing and Commissioning of Point wiring for FAN with 2 Nos 1.5 sq.mm & earthwire of 1.5 sq.mm (Green) both are of .ISI marked 1.1 KV Grade FRLS PVC insulated multistrand copper wires, in following type of pipe to be erected concealed in / flushed on wall/ceiling complete with 6A Modular type switch and hum free EME four or more step type electronic fan regulator with separately mounted and accessories with earth continuity of following type erected on PVC / Metallic box, single mounting base frame covered with textured/metallic front plate modules erected on / in wall / ceiling as per pipe erected. with necessary ceiling rose / H.D.Connector as directed. (a) with medium class Rigid PVC pipe and accessories Rate Include Mains from DB to SB and Looping from SB to SB with 2.5 Sq.mm Ckt Mains - 6.0 Mtr Average Length	nos.	3			
42	Supply and Installation, Testing and Commissioning of Point wiring for Looped Plug with 6A Modular type switch & 5 pin socket erected on PVC / Metallic box, single mounting base frame covered with textured / metallic front plate modules erected on / in wall / ceiling with following type accessories Rate Include Mains from DB to SB and Looping from SB to SB with 2.5 Sq.mm Ckt Mains - 8.0 Mtr Average Length	nos.	5			
43	Do - As - Above but for 6 A x 5 pin 250 Volt switched socket outlet point at convenient location . (Plug & Switch can be together or at different location) Rate Include Mains from SB to SB with 2.5 Sq.mm Ckt Mains - 4.0 Mtr Average Length	nos.	1			
44	Supply and Installation, Testing and Commissioning of Point wiring for Individual Plug with & earthwire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of to be erected concealed in / on surface of wall / ceiling complete with Modular type switch & 5 pin Plug erected on PVC / Metallic box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories. [II] For 6/16A Plug with 2 Nos 2.5 sq.mm Cu. Wire + 1.5 Sq.mm Earthing (a) with medium class Rigid PVC pipe and accessories Rate Include Mains from DB to SB and Looping from SB to SB with 2.5 Sq.mm Ckt Mains - 6 Mtr Average Length	nos.	10			
45	Supply and Installation, Testing and Commissioning of Point wiring for Individual Plug with & earthwire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of to be erected concealed in / on surface of wall / ceiling complete with Modular type switch 25A SP MCB & 5 pin Plug erected on PVC / Metallic box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories. [III] For 25A Plug with 2 Nos 4 sq.mm Cu. Wire + 1.5 Sq.mm Earthing (a) with medium class Rigid PVC pipe and accessories Rate Include Mains from DB to SB and Looping from SB to SB with 4.0 Sq.mm Ckt Mains - 12 Mtr Average Length	nos.	2			

46	Supplying & erecting single phase approved make industrial exhaust fan suitable for medium duty ring mounted low noise operation suitable for medium duty having following dia size and maximum speed in RPM [B] 380 mm dia 900 RPM	nos.	1			
46	Supply, Installation, Testing and Commissioning of suitable sweep, BEE 5 Star rated, Ceiling fan with Brush Less Direct Current (BLDC) with remote permanent ferrite magnet Motor, class of insulation: B, Rust free 3 nos. Aluminium blades, 2 nos. canopies, shackle kit with earthing provision, copper winding, Power factor not < 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM, 230v (tolerance as per IS : 374-2019), THD < 10%, with remote unit for Speed Control and all remaining accessories including safety pin, nut bolts, washers, temperature rise = 75 degree C (Max.), suitable for 140 to 285 Voltage and rectifier circuit with surge, over current and overload protection , 50 Hz, Single phase AC Supply, earthing etc. Complete as required. (B) 1200 mm Sweep (48")	nos.	3			
47	Supplying and erecting 19 / 20 mm. nominal bore Medium Class M.S. Pipe down rod erected duly painted for fan complete with necessary 24/ 0.20, 3 core flexible wire with earthing.	Rm	3			
47	Providing and erecting 1.6 - 1.8 mm thick FIA approved and ISI mark (embossed) RIGID PVC PIPES of following size complete erected with necessary PVC fittings & Junction boxes fixed with adhesive solution & Clamps with following type of erection.2) For erecting concealed in RCC / Brick wall/slab or Open along with continuous fish wire to draw mains, laid in approved manner with plastering by cement mortar & finishing the surface to match the wall/ceiling. Supply and laying of 32 mm rigid PVC pipe of 1.6-1.8 mm thickness	Rm	10			
48	Supply and Installation of Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size in (a) with medium class Rigid PVC pipe and accessories Wire : 3 wire 1.5 sq. mm	Rm	10			
48	Additional Wire : Supply and Installation of Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size in (a) with medium class Rigid PVC pipe and accessories Wire : 3 wire 2.5 sq. mm	Rm	10			
49	Supply and Installation of Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with following sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size : 3 wire 4 sq. mm	Rm	10			
49	Supply and Installation of Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with following sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size : 4 wire 4 sq. mm	Rm	10			
50	Supply and Installation of Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with following sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size : 4 wire 6 sq. mm	Rm	10			

50	Supply and Installation of Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with 4 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size : 4 wire 10 sq. mm	Rm	10			
51	Supply,installation, testing and commisioning of 600x600mm LED Panel Light of from 45 to 48 watts, 24" x 24" , Surge-2 KV Lamp White Aluminum dia cast , LUMEN EFFICACY >110lm/W, PF >0.90, THD <20%, CCT 6000K, powder coated housing, reflector, Diffused PC cover with LED Panel and driver.	Set	5			
52	Providing following type of Modular Type Accessories mounted with pvc / metallic box, single mounting base frame covered with textured / metallic front plate , modules erected with necessary connection. Two Pin/RJ-11 Telephone Socket for One Gong Bell - cat-iii	nos.	1			
53	SANITARY INSTALLATIONS :- Providing and fixing white vitreous china extended wall mounting water closet, with concealed flush tank, dual flush type-3/6ltr flush, including flush plate, flush tank full fram, flush fitting, including seat cover, spray jet with flexible tube , fittings, nuts, bolts and gasket etc complete (KOHLER/JAQUAR/ CERA/ HINDWARE OR or any other make as approved by the chief engineer)	nos.	1			
54	Providing & fixing white vitreous china Urinal with rear inlet in white 378mm x 284mm x 575mm mm having antibacterial /germs free ceramic surface, fixed with cartridge having debris catcher and hygiene seal, inlet & waste pipe connection etc.. (KOHLER/KOHLER/JAQUAR/ CERA/ HINDWARE OR or any other make as approved by the chief engineer)	nos	2			
55	Providing and fixing Under Counter Basin -536mm x 435mm under counter basin in white ,wash basin , supports , brackets, 15 mm dia CP Brass pillar cock, angular connections, CP. connection pipes, waste coupling , bottle trap, of approved quality and make, including painting of fittings and brackets, cutting and making good the walls wherever required:- (KOHLER/KOHLER/JAQUAR/ CERA/ HINDWARE OR or any other make as approved by the chief engineer)	nos	1			
56	Supplying & Installing & fixing of Flush Valve Auto operation cock with wall Flange 40mm with lever knob complete in all respects including cutting and making good the walls etc.(KOHLER/JAQUAR/ CERA/ HINDWARE OR or any other make as approved by the chief engineer)	nos	1			
57	Providing & fixing in position 15 mm C.P. brass bib cocks of best quality (as approved by the Engineer-in-Charge).(KOHLER/JAQUAR/ CERA/ HINDWARE OR or any other make as approved by the chief engineer)	nos	1			
58	Providing and placing on terrace (at all floor levels) polyethylene water storage tank (500L), IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes	nos	1			
59	Cutting holes up to 6" Dia in R.C.C. floors /roof / of upto 200mm thickness for passing service pipe etc. and repairing the hole after insertion of pipe /sleeve etc. including finishing complete so as to make it leak proof As per EIC	nos	2			
60	Providing and fixing C.I. double acting air valve of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces, tapers etc if required will be paid separately) : 50 mm dia	nos	1			
61	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete, semi rigid pipe 75mm dia	Rm	10			
62	Supplying fitting and fixing chrome plated (C.P) angluar stop-cock of approved brand and size as mentioned below as directed and specified of 15mm dia of approved brand	nos	1			
63	Providing and fixing soil, waste and vent pipes 100 mm dia. Including cowl pipe Of Supreme, Finolex or approved brand including holder bat clamps wherevr necessary.	Rm	10			
64	Providing & fixing CPVC pipe of 1/2 " dia. Along with all fixtures like coupling, elbow, TEE, reducer, union,etc. in all complete for water supply line works	Rm	10			

65	Providing & fixing CPVC pipe of 1" dia. Along with all fixtures like coupling, elbow, TEE, reducer, union,etc. in all complete for water supply line works	Rm	10			
66	Providing & fixing CPVC pipe of 1-1/2" dia. Along with all fixtures like coupling, elbow, TEE, reducer, union,etc. in all complete for water supply line works	Rm	10			
67	Providing & fixing CPVC pipe of 2" dia. Along with all fixtures like coupling, elbow, TEE, reducer, union,etc. in all complete for water supply line works	Rm	10			
TOTAL	Dear Sir,					

The Price Bid Opening for the work of **Construction of KRIBHCO State Marketing Office, Bengaluru** is scheduled **today** (23.09.2025) at **3:30 PM**.

You are kindly requested to join the meeting at the **Board Room, Ground Floor, KRIBHCO Bhawan, Noida/Teams Meeting Link**.